

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P402617

Luminaire Tested: **GAN-AF-07-LED-U-SL2-AMB-HSS**

Issue Date: 6/8/2020

Test Information

Test Method: LM-79-08
Report Number: P402617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-5)
Test Lab: INNOVATION CENTER
Issue Date: 6/8/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-SL2-AMB-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5571 lumens
Efficiency: N/A
Efficacy: 40.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

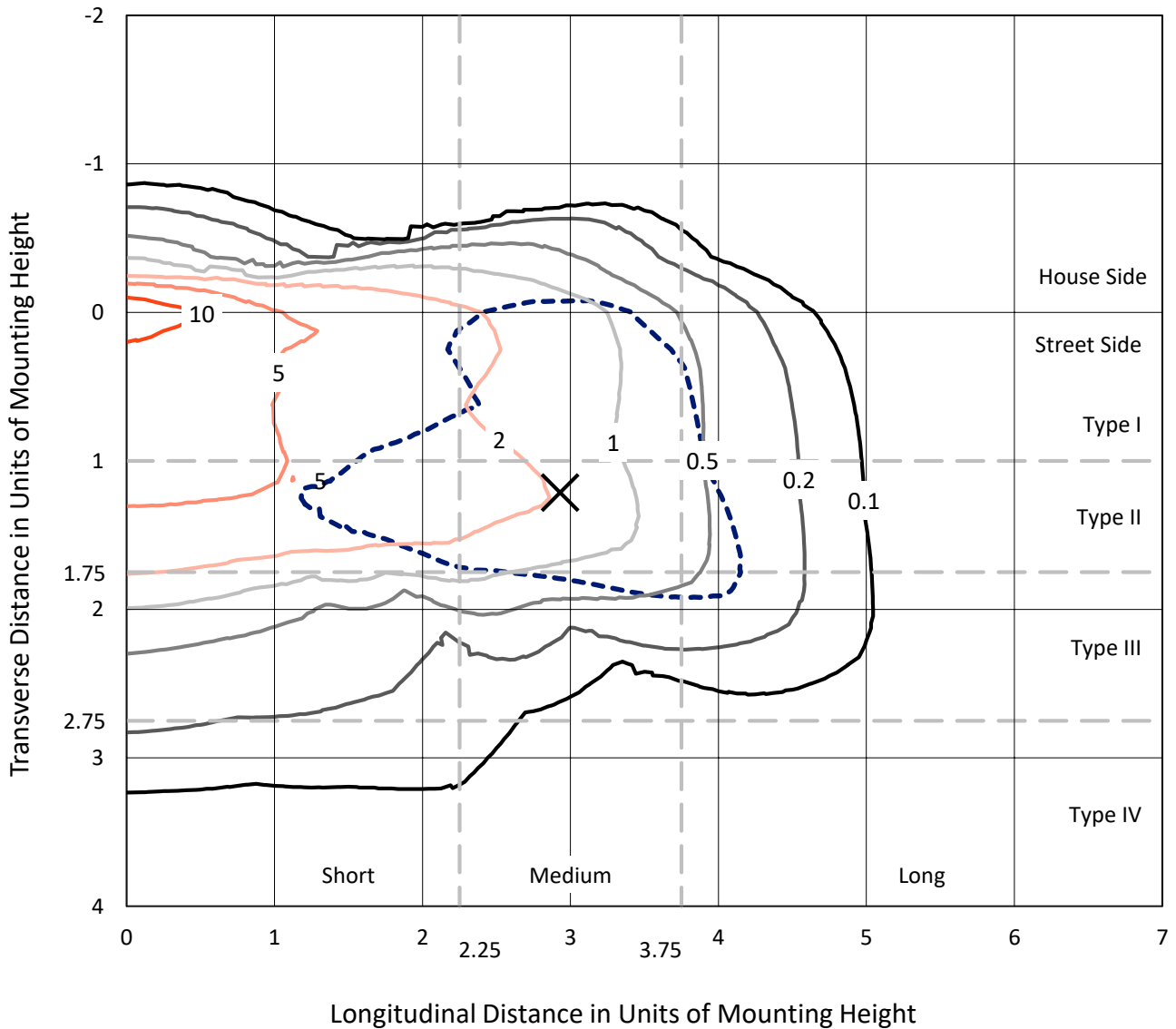
Input Watts (W): 138.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

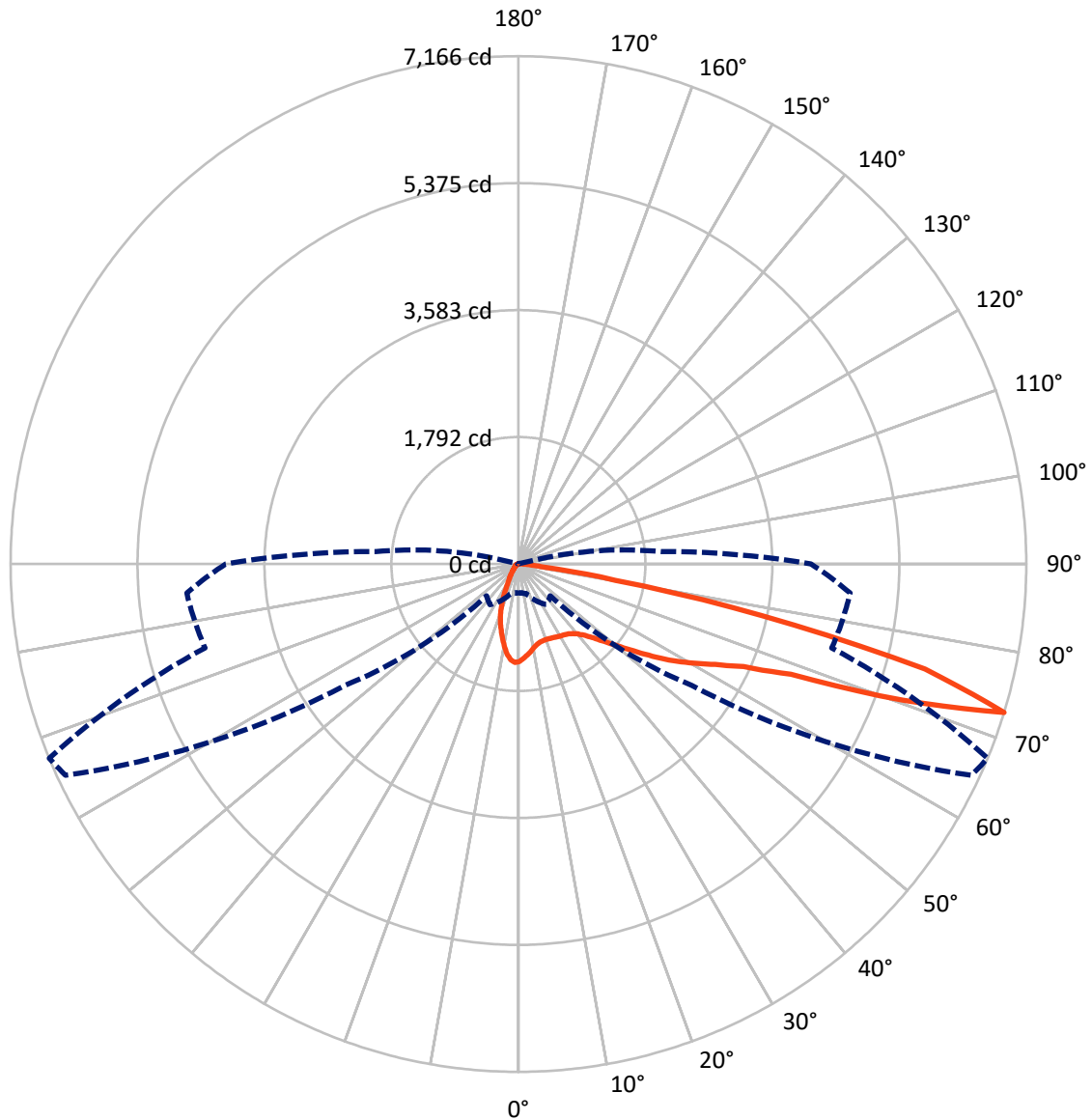
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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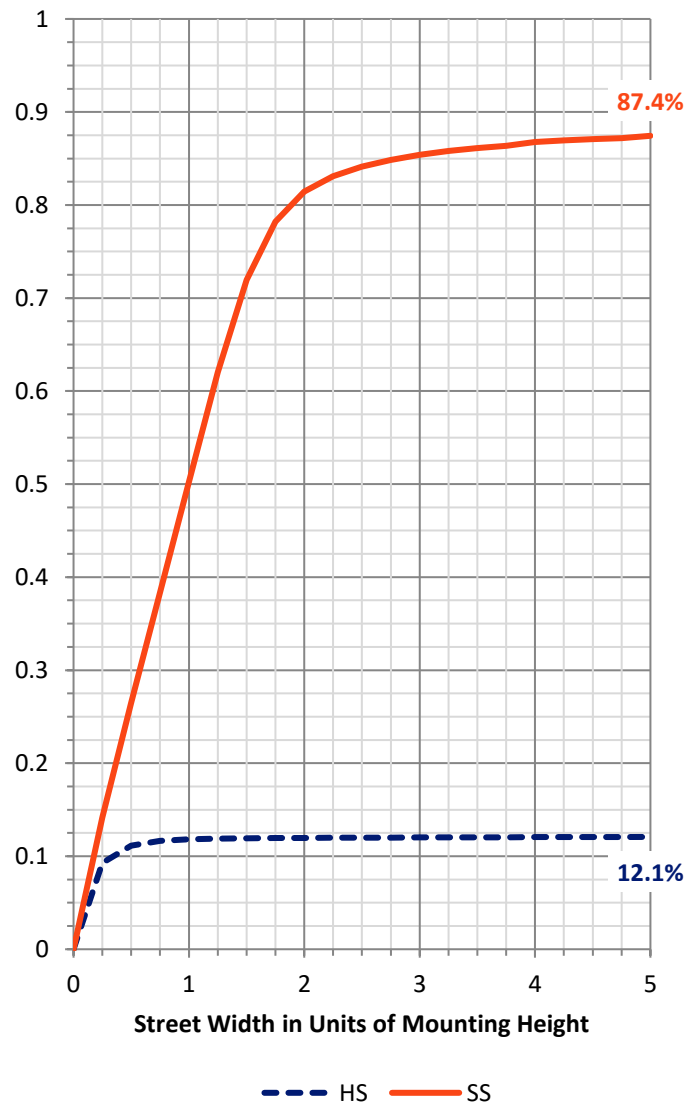
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	679.5	0.0	679.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	4891.5	0.0	4891.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	5571.0	0.0	5571.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	2.0
10°-20°	239.5	4.3
20°-30°	338.3	6.1
30°-40°	484.6	8.7
40°-50°	731.2	13.1
50°-60°	1172.2	21.0
60°-70°	1385.7	24.9
70°-80°	1012.3	18.2
80°-90°	93.6	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5571.0	100.0
0°-180°	5571.0	100.0

Coefficient of Utilization



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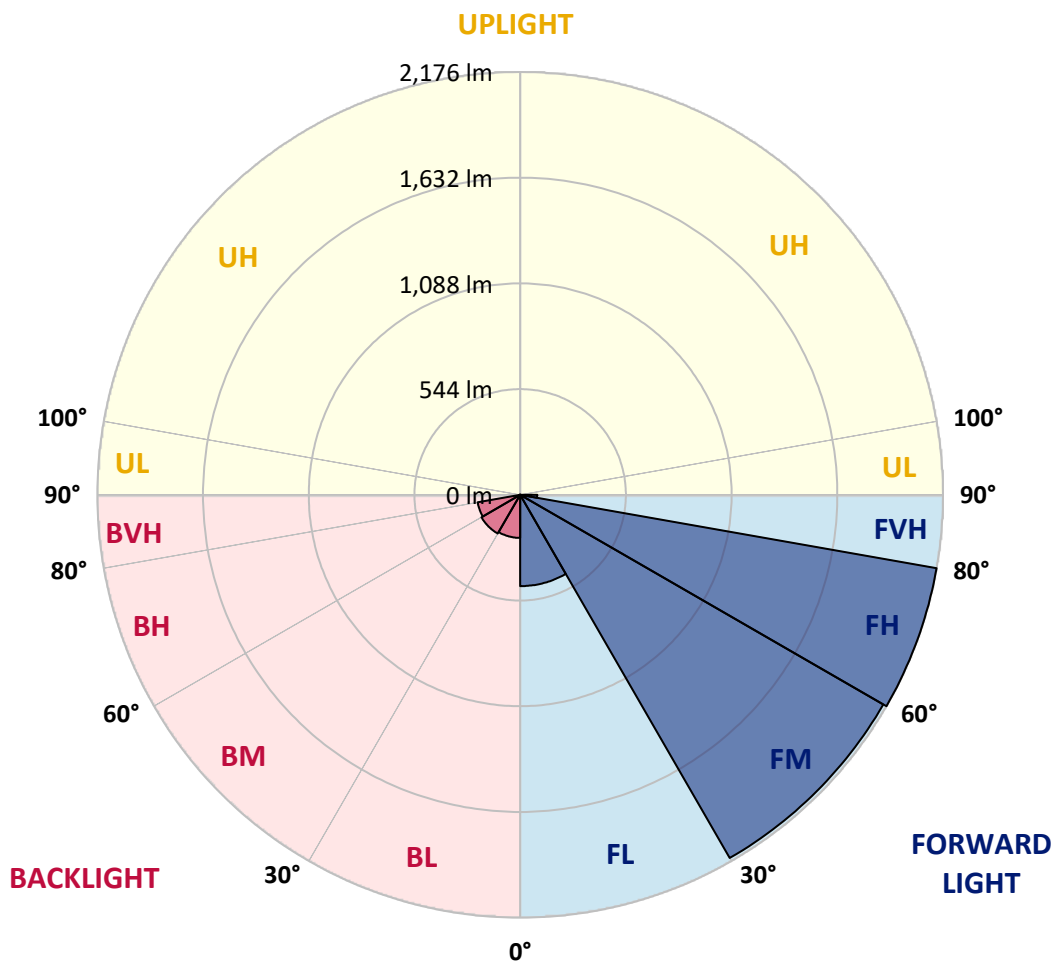
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	469.9	8.4			
FM	(30°-60°)	2157.9	38.7			
FH	(60°-80°)	2175.9	39.1			G2/5000
FVH	(80°-90°)	87.7	1.6			G1/100
BL	(0°-30°)	221.6	4.0	B1/500		
BM	(30°-60°)	230.1	4.1	B1/1000		
BH	(60°-80°)	222.0	4.0	B1/500		G1/500
BVH	(80°-90°)	5.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67.5°	75°	85°
0°	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8
2.5°	1290.9	1297.0	1297.0	1306.2	1309.3	1312.4	1330.8	1336.9	1333.8	1352.2	1364.5
5°	1205.1	1205.1	1211.2	1226.5	1238.8	1248.0	1269.5	1287.8	1290.9	1312.4	1346.1
7.5°	1134.5	1140.7	1140.7	1149.9	1168.3	1183.6	1211.2	1241.9	1248.0	1275.6	1315.4
10°	1079.3	1076.3	1085.5	1094.7	1110.0	1125.3	1156.0	1189.7	1202.0	1232.7	1278.6
12.5°	1027.2	1030.3	1033.3	1048.7	1067.1	1082.4	1113.1	1152.9	1165.2	1205.1	1260.3
15°	996.5	996.5	999.6	1008.8	1027.2	1048.7	1085.5	1128.4	1143.7	1189.7	1254.1
17.5°	987.4	987.4	984.3	987.4	1002.7	1024.1	1067.1	1119.2	1134.5	1183.6	1263.3
20°	990.4	990.4	984.3	981.2	990.4	1011.9	1060.9	1116.1	1134.5	1192.8	1287.8
22.5°	1008.8	1005.7	999.6	990.4	990.4	1011.9	1064.0	1122.3	1140.7	1205.1	1309.3
25°	1054.8	1042.5	1036.4	1018.0	1005.7	1014.9	1067.1	1131.5	1149.9	1214.3	1340.0
27.5°	1097.7	1094.7	1094.7	1076.3	1036.4	1027.2	1079.3	1146.8	1162.1	1226.5	1379.8
30°	1171.3	1165.2	1165.2	1143.7	1094.7	1051.7	1091.6	1159.1	1177.5	1235.7	1419.7
32.5°	1263.3	1266.4	1260.3	1232.7	1171.3	1097.7	1113.1	1174.4	1189.7	1241.9	1459.6
35°	1364.5	1367.6	1382.9	1352.2	1272.5	1168.3	1146.8	1202.0	1211.2	1254.1	1490.2
37.5°	1447.3	1447.3	1487.2	1493.3	1395.2	1254.1	1202.0	1248.0	1244.9	1269.5	1520.9
40°	1539.3	1539.3	1585.3	1622.1	1551.6	1370.6	1272.5	1303.2	1297.0	1303.2	1563.8
42.5°	1637.4	1643.5	1692.6	1757.0	1720.2	1520.9	1373.7	1389.0	1376.8	1358.4	1609.8
45°	1732.5	1747.8	1815.3	1901.1	1898.0	1698.7	1505.6	1508.6	1487.2	1450.4	1704.9
47.5°	1842.8	1855.1	1950.2	2057.5	2085.1	1901.1	1674.2	1661.9	1634.3	1576.1	1833.7
50°	2029.9	2036.0	2103.5	2229.2	2281.3	2124.9	1864.3	1842.8	1812.2	1738.6	2008.4
52.5°	2253.7	2250.7	2281.3	2413.2	2554.2	2385.6	2112.7	2082.0	2033.0	1937.9	2223.1
55°	2351.9	2361.1	2407.0	2566.5	2839.4	2765.8	2391.7	2348.8	2296.7	2174.0	2443.8
57.5°	2180.1	2180.1	2272.1	2523.6	2998.8	3268.7	2704.5	2637.0	2572.6	2416.2	2695.3
60°	1744.7	1741.7	1852.0	2155.6	2879.3	3707.2	3139.9	2937.5	2839.4	2630.9	2946.7
62.5°	1223.5	1198.9	1248.0	1502.5	2358.0	3713.3	3952.5	3250.3	3118.4	2851.7	3213.5
65°	877.0	861.6	870.8	941.4	1352.2	3357.6	4850.9	3725.6	3489.5	3084.7	3535.4
67.5°	717.5	699.1	696.1	781.9	778.8	2223.1	5120.7	4663.8	4148.7	3425.1	3900.3
70°	573.4	564.2	561.1	683.8	720.6	723.6	4774.2	6669.2	5755.5	3931.0	4387.9
72.5°	407.8	407.8	432.3	567.3	699.1	634.7	2986.6	7052.5	7166.0	4578.0	4697.6
75°	245.3	242.2	303.6	450.7	674.6	613.3	923.0	5819.8	5924.1	4286.7	3633.6
77.5°	116.5	116.5	168.6	303.6	597.9	576.5	527.4	3480.3	3504.8	2603.3	1842.8
80°	46.0	46.0	73.6	187.0	453.8	570.3	490.6	1435.0	1382.9	717.5	254.5
82.5°	18.4	18.4	30.7	104.3	282.1	469.1	435.4	475.3	355.7	82.8	67.5
85°	3.1	6.1	12.3	61.3	159.4	248.4	352.6	294.4	187.0	49.1	49.1
87.5°	0.0	3.1	6.1	18.4	46.0	104.3	177.8	134.9	85.9	15.3	21.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8
2.5°	1367.6	1373.7	1386.0	1392.1	1395.2	1382.9	1382.9	1370.6	1367.6	1367.6	1367.6
5°	1352.2	1364.5	1373.7	1352.2	1318.5	1275.6	1226.5	1195.9	1165.2	1171.3	1159.1
7.5°	1333.8	1349.2	1336.9	1266.4	1180.5	1100.8	1014.9	965.9	907.6	901.5	886.2
10°	1306.2	1321.6	1275.6	1152.9	1021.1	904.6	778.8	702.2	640.9	591.8	579.5
12.5°	1300.1	1309.3	1202.0	1033.3	861.6	696.1	533.5	389.4	303.6	260.6	260.6
15°	1303.2	1303.2	1134.5	913.8	689.9	459.9	257.6	187.0	156.4	153.3	150.2
17.5°	1318.5	1300.1	1067.1	797.2	505.9	239.2	153.3	141.1	134.9	134.9	134.9
20°	1346.1	1300.1	1008.8	674.6	318.9	150.2	131.9	125.7	122.7	119.6	119.6
22.5°	1373.7	1287.8	935.2	533.5	184.0	125.7	116.5	113.5	107.3	104.3	104.3
25°	1404.4	1275.6	864.7	383.3	128.8	110.4	101.2	95.1	88.9	85.9	85.9
27.5°	1432.0	1263.3	781.9	242.2	113.5	98.1	88.9	79.7	70.5	67.5	67.5
30°	1450.4	1241.9	702.2	153.3	101.2	88.9	76.7	64.4	55.2	52.1	52.1
32.5°	1453.4	1214.3	604.1	113.5	92.0	76.7	61.3	52.1	46.0	42.9	42.9
35°	1444.2	1180.5	496.7	101.2	82.8	67.5	52.1	42.9	36.8	36.8	36.8
37.5°	1432.0	1146.8	386.4	92.0	73.6	58.3	42.9	36.8	33.7	30.7	30.7
40°	1428.9	1113.1	257.6	85.9	67.5	49.1	36.8	30.7	27.6	24.5	24.5
42.5°	1438.1	1088.5	180.9	79.7	58.3	42.9	33.7	27.6	21.5	21.5	18.4
45°	1484.1	1082.4	131.9	73.6	52.1	36.8	27.6	21.5	18.4	15.3	15.3
47.5°	1560.7	1094.7	107.3	67.5	46.0	30.7	24.5	18.4	15.3	12.3	12.3
50°	1671.1	1140.7	98.1	61.3	36.8	27.6	18.4	15.3	12.3	12.3	12.3
52.5°	1842.8	1214.3	92.0	55.2	30.7	21.5	15.3	12.3	9.2	9.2	9.2
55°	2026.8	1300.1	88.9	49.1	27.6	18.4	12.3	9.2	9.2	6.1	6.1
57.5°	2238.4	1413.6	82.8	42.9	24.5	18.4	12.3	9.2	6.1	6.1	6.1
60°	2505.2	1566.9	73.6	36.8	21.5	15.3	9.2	6.1	6.1	6.1	6.1
62.5°	2781.1	1726.3	64.4	30.7	18.4	12.3	9.2	6.1	6.1	6.1	6.1
65°	3118.4	1910.3	55.2	24.5	15.3	12.3	9.2	6.1	6.1	3.1	3.1
67.5°	3526.3	2097.4	42.9	21.5	15.3	9.2	9.2	6.1	6.1	3.1	3.1
70°	4047.5	2336.5	36.8	18.4	12.3	9.2	9.2	6.1	6.1	3.1	3.1
72.5°	4127.2	2017.6	30.7	18.4	12.3	9.2	9.2	6.1	6.1	3.1	3.1
75°	2821.0	962.8	27.6	15.3	12.3	12.3	9.2	6.1	6.1	3.1	3.1
77.5°	1229.6	226.9	24.5	15.3	12.3	12.3	12.3	9.2	6.1	3.1	3.1
80°	144.1	42.9	21.5	15.3	12.3	15.3	12.3	9.2	6.1	3.1	3.1
82.5°	58.3	27.6	21.5	18.4	15.3	12.3	12.3	9.2	6.1	3.1	3.1
85°	42.9	21.5	21.5	21.5	15.3	9.2	9.2	6.1	6.1	3.1	3.1
87.5°	21.5	9.2	6.1	6.1	6.1	6.1	6.1	3.1	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)