

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: P402601

Luminaire Tested: **GAN-AF-05-LED-U-SL2-AMB-HSS**

Issue Date: 6/8/2020

Test Information

Test Method: LM-79-08
Report Number: P402601
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-05-LED-U-SL2-AMB-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 4002 lumens
Efficiency: N/A
Efficacy: 39.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

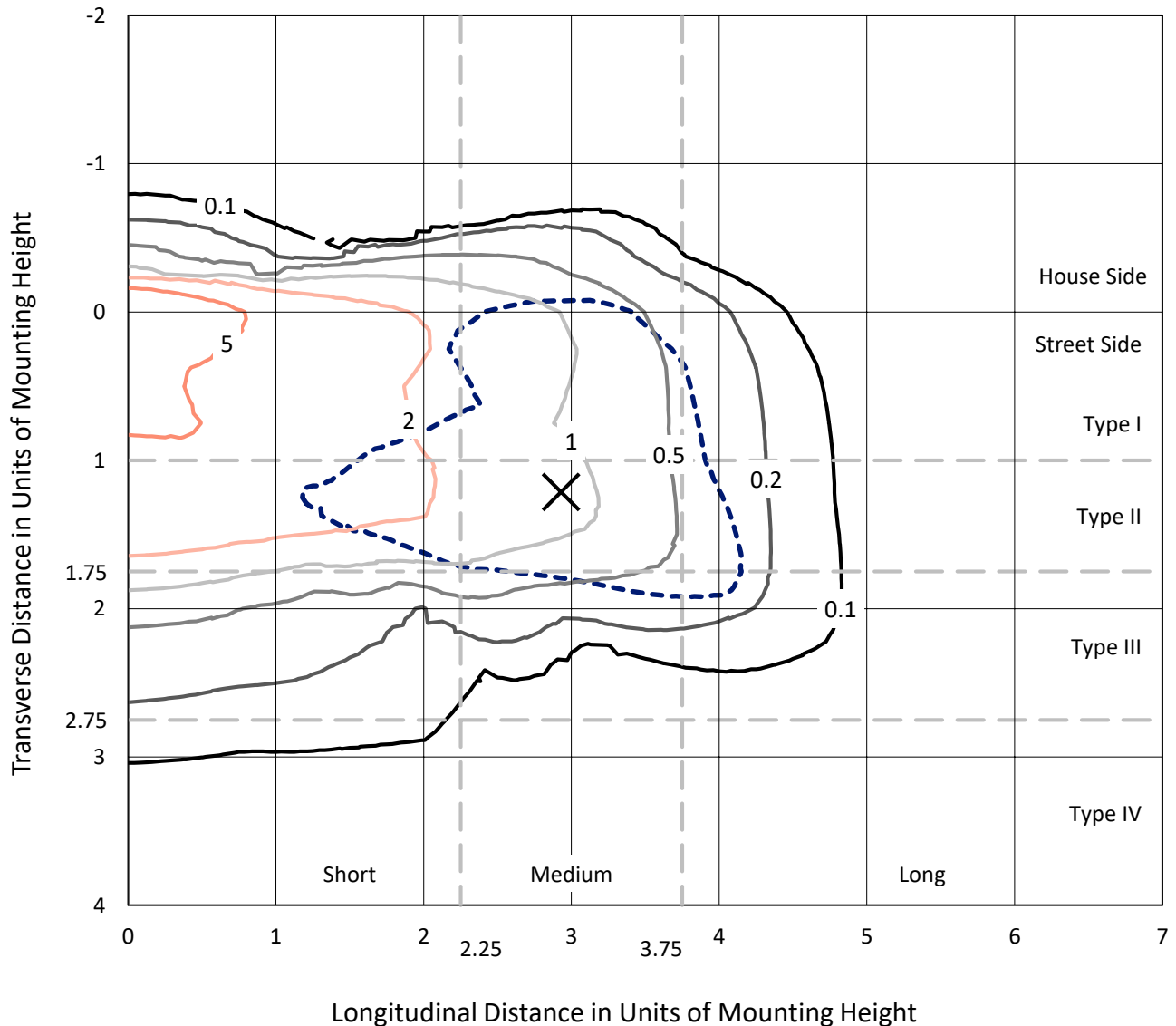
Input Watts (W): 101
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

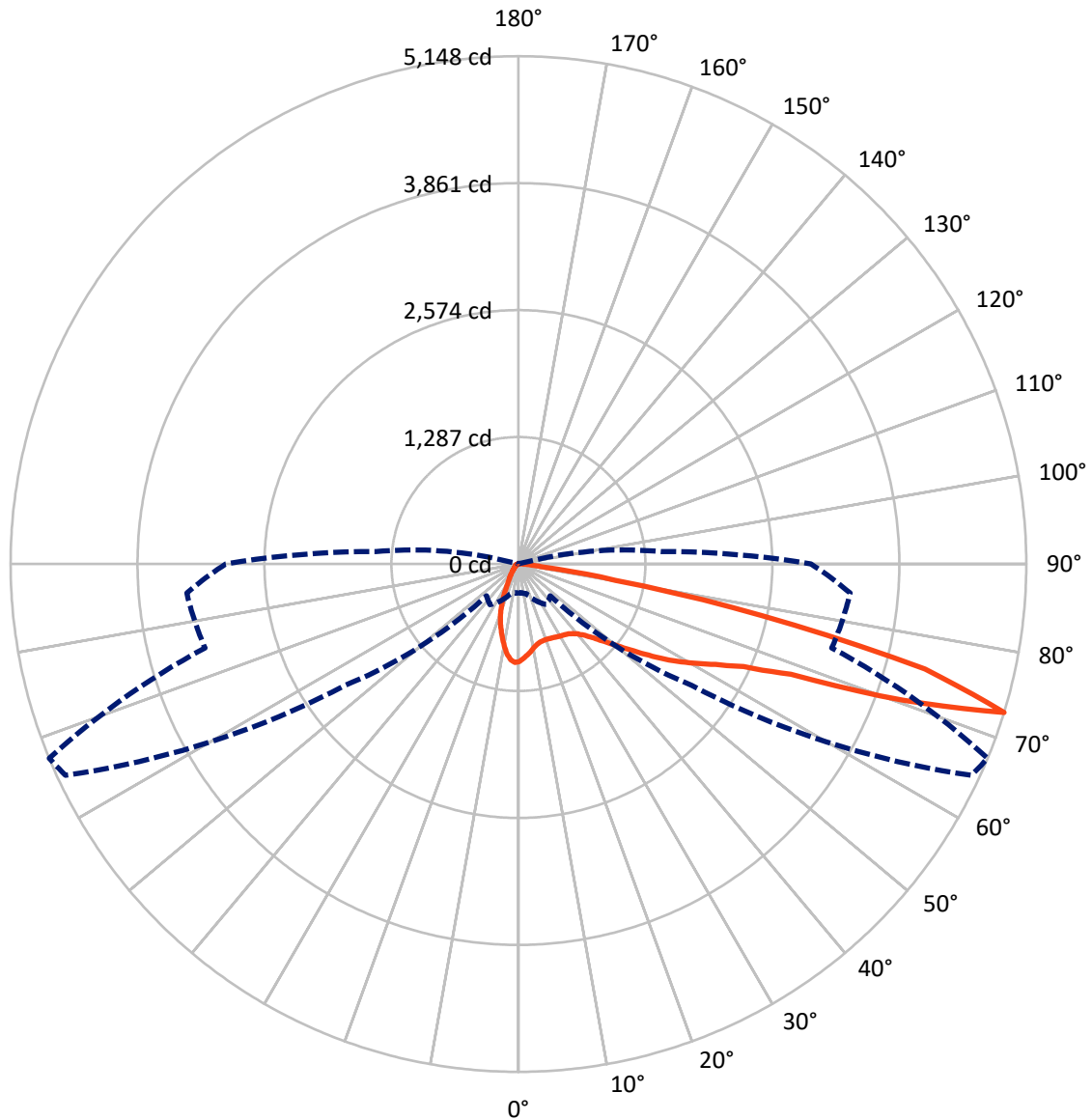
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.9 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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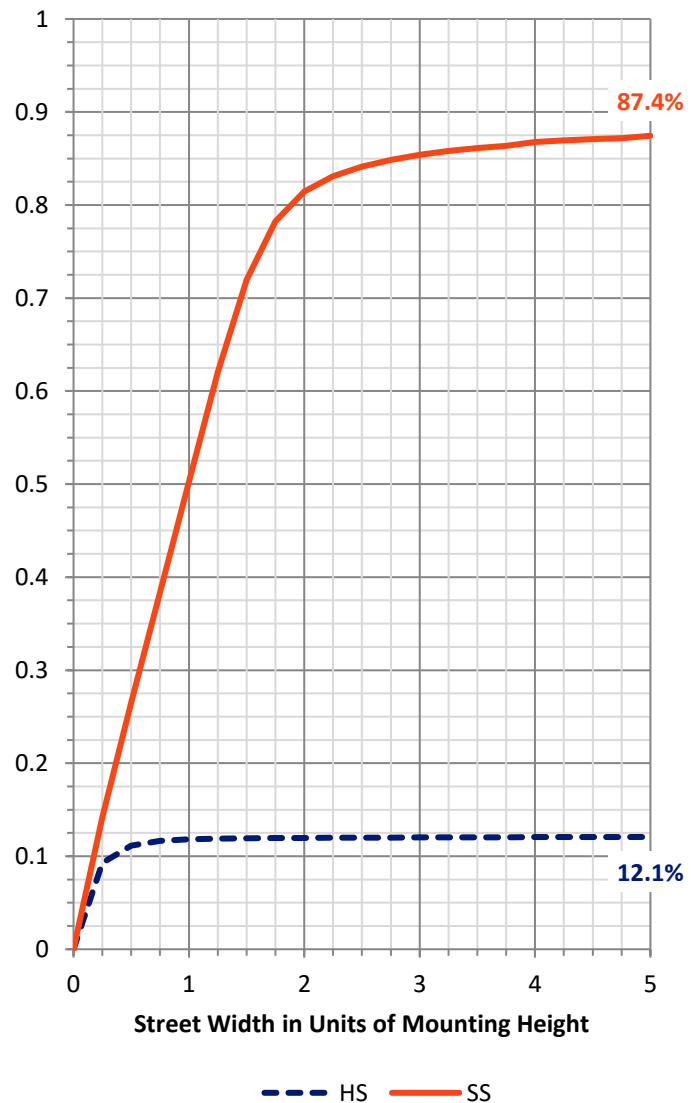
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	488.1	0.0	488.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	3513.8	0.0	3513.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	4002.0	0.0	4002.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	2.0
10°-20°	172.1	4.3
20°-30°	243.0	6.1
30°-40°	348.1	8.7
40°-50°	525.2	13.1
50°-60°	842.0	21.0
60°-70°	995.4	24.9
70°-80°	727.2	18.2
80°-90°	67.2	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°	4002.0	100.0
0°-180°	4002.0	100.0

Coefficient of Utilization



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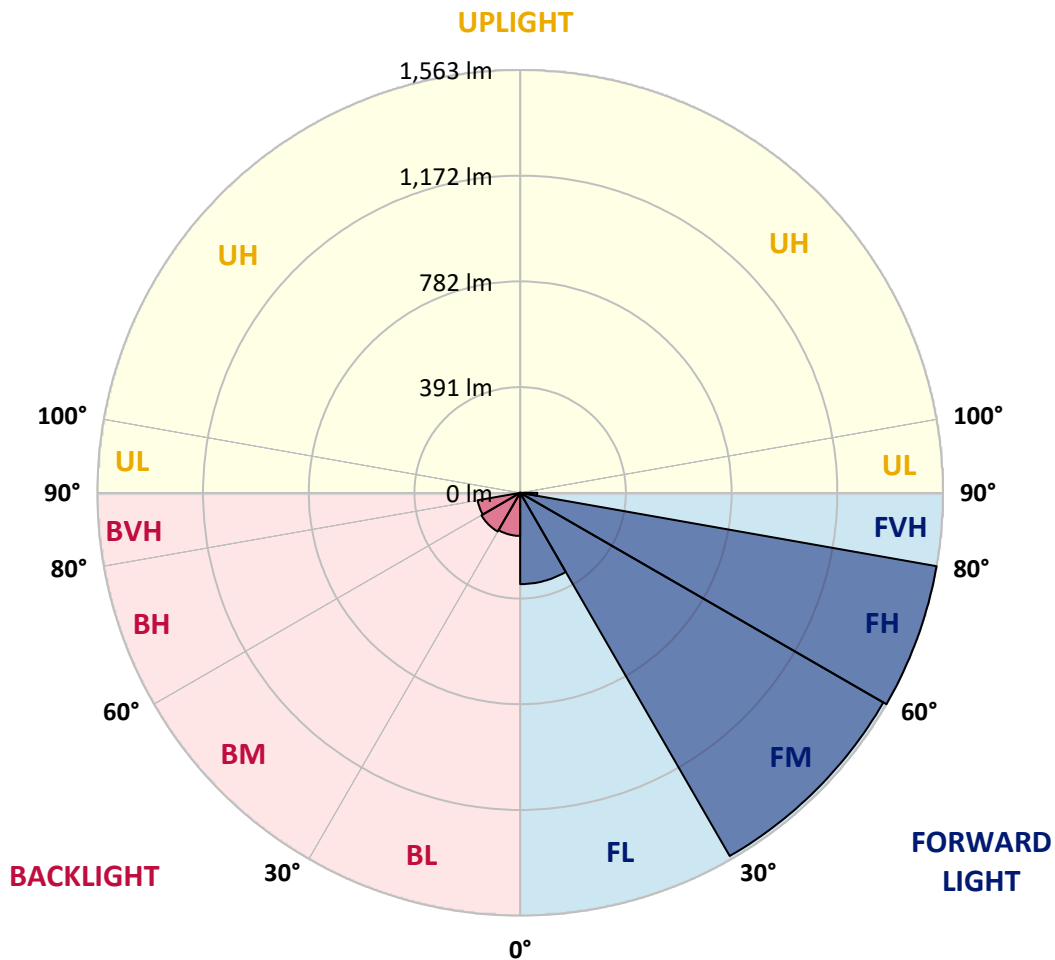
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	337.6	8.4			
FM	(30°-60°)	1550.1	38.7			
FH	(60°-80°)	1563.1	39.1			G1/1800
FVH	(80°-90°)	63.0	1.6			G1/100
BL	(0°-30°)	159.2	4.0	B1/500		
BM	(30°-60°)	165.3	4.1	B0/220		
BH	(60°-80°)	159.5	4.0	B1/500		G1/500
BVH	(80°-90°)	4.2	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-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67.5°	75°	85°
0°	989.0	989.0	989.0	989.0	989.0	989.0	989.0	989.0	989.0	989.0	989.0
2.5°	927.3	931.8	931.8	938.4	940.6	942.8	956.0	960.4	958.2	971.4	980.2
5°	865.7	865.7	870.1	881.1	889.9	896.5	911.9	925.1	927.3	942.8	967.0
7.5°	815.0	819.4	819.4	826.0	839.2	850.2	870.1	892.1	896.5	916.3	945.0
10°	775.4	773.2	779.8	786.4	797.4	808.4	830.4	854.7	863.5	885.5	918.5
12.5°	737.9	740.1	742.3	753.3	766.5	777.6	799.6	828.2	837.0	865.7	905.3
15°	715.9	715.9	718.1	724.7	737.9	753.3	779.8	810.6	821.6	854.7	900.9
17.5°	709.3	709.3	707.1	709.3	720.3	735.7	766.5	804.0	815.0	850.2	907.5
20°	711.5	711.5	707.1	704.9	711.5	726.9	762.1	801.8	815.0	856.9	925.1
22.5°	724.7	722.5	718.1	711.5	711.5	726.9	764.3	806.2	819.4	865.7	940.6
25°	757.7	748.9	744.5	731.3	722.5	729.1	766.5	812.8	826.0	872.3	962.6
27.5°	788.6	786.4	786.4	773.2	744.5	737.9	775.4	823.8	834.8	881.1	991.2
30°	841.4	837.0	837.0	821.6	786.4	755.5	784.2	832.6	845.8	887.7	1019.9
32.5°	907.5	909.7	905.3	885.5	841.4	788.6	799.6	843.6	854.7	892.1	1048.5
35°	980.2	982.4	993.4	971.4	914.1	839.2	823.8	863.5	870.1	900.9	1070.5
37.5°	1039.7	1039.7	1068.3	1072.7	1002.2	900.9	863.5	896.5	894.3	911.9	1092.5
40°	1105.8	1105.8	1138.8	1165.2	1114.6	984.6	914.1	936.2	931.8	936.2	1123.4
42.5°	1176.3	1180.7	1215.9	1262.2	1235.7	1092.5	986.8	997.8	989.0	975.8	1156.4
45°	1244.5	1255.6	1304.0	1365.7	1363.5	1220.3	1081.5	1083.7	1068.3	1041.9	1224.7
47.5°	1323.8	1332.6	1400.9	1478.0	1497.8	1365.7	1202.7	1193.9	1174.0	1132.2	1317.2
50°	1458.2	1462.6	1511.1	1601.4	1638.8	1526.5	1339.3	1323.8	1301.8	1248.9	1442.8
52.5°	1619.0	1616.8	1638.8	1733.5	1834.9	1713.7	1517.7	1495.6	1460.4	1392.1	1597.0
55°	1689.5	1696.1	1729.1	1843.7	2039.7	1986.9	1718.1	1687.3	1649.8	1561.7	1755.6
57.5°	1566.1	1566.1	1632.2	1812.8	2154.3	2348.1	1942.8	1894.3	1848.1	1735.7	1936.2
60°	1253.3	1251.1	1330.4	1548.5	2068.4	2663.1	2255.6	2110.2	2039.7	1889.9	2116.8
62.5°	878.9	861.3	896.5	1079.3	1693.9	2667.5	2839.3	2334.9	2240.2	2048.5	2308.5
65°	630.0	619.0	625.6	676.2	971.4	2412.0	3484.7	2676.3	2506.7	2215.9	2539.7
67.5°	515.4	502.2	500.0	561.7	559.5	1597.0	3678.5	3350.3	2980.3	2460.4	2801.9
70°	411.9	405.3	403.1	491.2	517.6	519.8	3429.6	4790.9	4134.5	2823.9	3152.1
72.5°	293.0	293.0	310.6	407.5	502.2	456.0	2145.4	5066.3	5147.8	3288.7	3374.6
75°	176.2	174.0	218.1	323.8	484.6	440.5	663.0	4180.8	4255.7	3079.4	2610.2
77.5°	83.7	83.7	121.1	218.1	429.5	414.1	378.9	2500.1	2517.7	1870.1	1323.8
80°	33.0	33.0	52.9	134.4	326.0	409.7	352.4	1030.9	993.4	515.4	182.8
82.5°	13.2	13.2	22.0	74.9	202.7	337.0	312.8	341.4	255.5	59.5	48.5
85°	2.2	4.4	8.8	44.1	114.5	178.4	253.3	211.5	134.4	35.2	35.2
87.5°	0.0	2.2	4.4	13.2	33.0	74.9	127.8	96.9	61.7	11.0	15.4
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°	989.0	989.0	989.0	989.0	989.0	989.0	989.0	989.0	989.0	989.0	989.0
2.5°	982.4	986.8	995.6	1000.0	1002.2	993.4	993.4	984.6	982.4	982.4	982.4
5°	971.4	980.2	986.8	971.4	947.2	916.3	881.1	859.1	837.0	841.4	832.6
7.5°	958.2	969.2	960.4	909.7	848.0	790.8	729.1	693.9	652.0	647.6	636.6
10°	938.4	949.4	916.3	828.2	733.5	649.8	559.5	504.4	460.4	425.1	416.3
12.5°	934.0	940.6	863.5	742.3	619.0	500.0	383.3	279.7	218.1	187.2	187.2
15°	936.2	936.2	815.0	656.4	495.6	330.4	185.0	134.4	112.3	110.1	107.9
17.5°	947.2	934.0	766.5	572.7	363.4	171.8	110.1	101.3	96.9	96.9	96.9
20°	967.0	934.0	724.7	484.6	229.1	107.9	94.7	90.3	88.1	85.9	85.9
22.5°	986.8	925.1	671.8	383.3	132.2	90.3	83.7	81.5	77.1	74.9	74.9
25°	1008.8	916.3	621.2	275.3	92.5	79.3	72.7	68.3	63.9	61.7	61.7
27.5°	1028.7	907.5	561.7	174.0	81.5	70.5	63.9	57.3	50.7	48.5	48.5
30°	1041.9	892.1	504.4	110.1	72.7	63.9	55.1	46.3	39.6	37.4	37.4
32.5°	1044.1	872.3	433.9	81.5	66.1	55.1	44.1	37.4	33.0	30.8	30.8
35°	1037.5	848.0	356.8	72.7	59.5	48.5	37.4	30.8	26.4	26.4	26.4
37.5°	1028.7	823.8	277.5	66.1	52.9	41.9	30.8	26.4	24.2	22.0	22.0
40°	1026.5	799.6	185.0	61.7	48.5	35.2	26.4	22.0	19.8	17.6	17.6
42.5°	1033.1	782.0	130.0	57.3	41.9	30.8	24.2	19.8	15.4	15.4	13.2
45°	1066.1	777.6	94.7	52.9	37.4	26.4	19.8	15.4	13.2	11.0	11.0
47.5°	1121.2	786.4	77.1	48.5	33.0	22.0	17.6	13.2	11.0	8.8	8.8
50°	1200.5	819.4	70.5	44.1	26.4	19.8	13.2	11.0	8.8	8.8	8.8
52.5°	1323.8	872.3	66.1	39.6	22.0	15.4	11.0	8.8	6.6	6.6	6.6
55°	1456.0	934.0	63.9	35.2	19.8	13.2	8.8	6.6	6.6	4.4	4.4
57.5°	1608.0	1015.5	59.5	30.8	17.6	13.2	8.8	6.6	4.4	4.4	4.4
60°	1799.6	1125.6	52.9	26.4	15.4	11.0	6.6	4.4	4.4	4.4	4.4
62.5°	1997.9	1240.1	46.3	22.0	13.2	8.8	6.6	4.4	4.4	4.4	4.4
65°	2240.2	1372.3	39.6	17.6	11.0	8.8	6.6	4.4	4.4	2.2	2.2
67.5°	2533.1	1506.7	30.8	15.4	11.0	6.6	6.6	4.4	4.4	2.2	2.2
70°	2907.6	1678.5	26.4	13.2	8.8	6.6	6.6	4.4	4.4	2.2	2.2
72.5°	2964.9	1449.4	22.0	13.2	8.8	6.6	6.6	4.4	4.4	2.2	2.2
75°	2026.5	691.7	19.8	11.0	8.8	8.8	6.6	4.4	4.4	2.2	2.2
77.5°	883.3	163.0	17.6	11.0	8.8	8.8	8.8	6.6	4.4	2.2	2.2
80°	103.5	30.8	15.4	11.0	8.8	11.0	8.8	6.6	4.4	2.2	2.2
82.5°	41.9	19.8	15.4	13.2	11.0	8.8	8.8	6.6	4.4	2.2	2.2
85°	30.8	15.4	15.4	15.4	11.0	6.6	6.6	4.4	4.4	2.2	2.2
87.5°	15.4	6.6	4.4	4.4	4.4	4.4	4.4	2.2	2.2	2.2	2.2
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)