

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: P402596

Luminaire Tested: **GAN-AF-04-LED-U-SL3-AMB**

Issue Date: 6/8/2020

Test Information

Test Method: LM-79-08
Report Number: P402596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-6)
Test Lab: INNOVATION CENTER
Issue Date: 6/8/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-SL3-AMB
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4228 lumens
Efficiency: N/A
Efficacy: 52.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

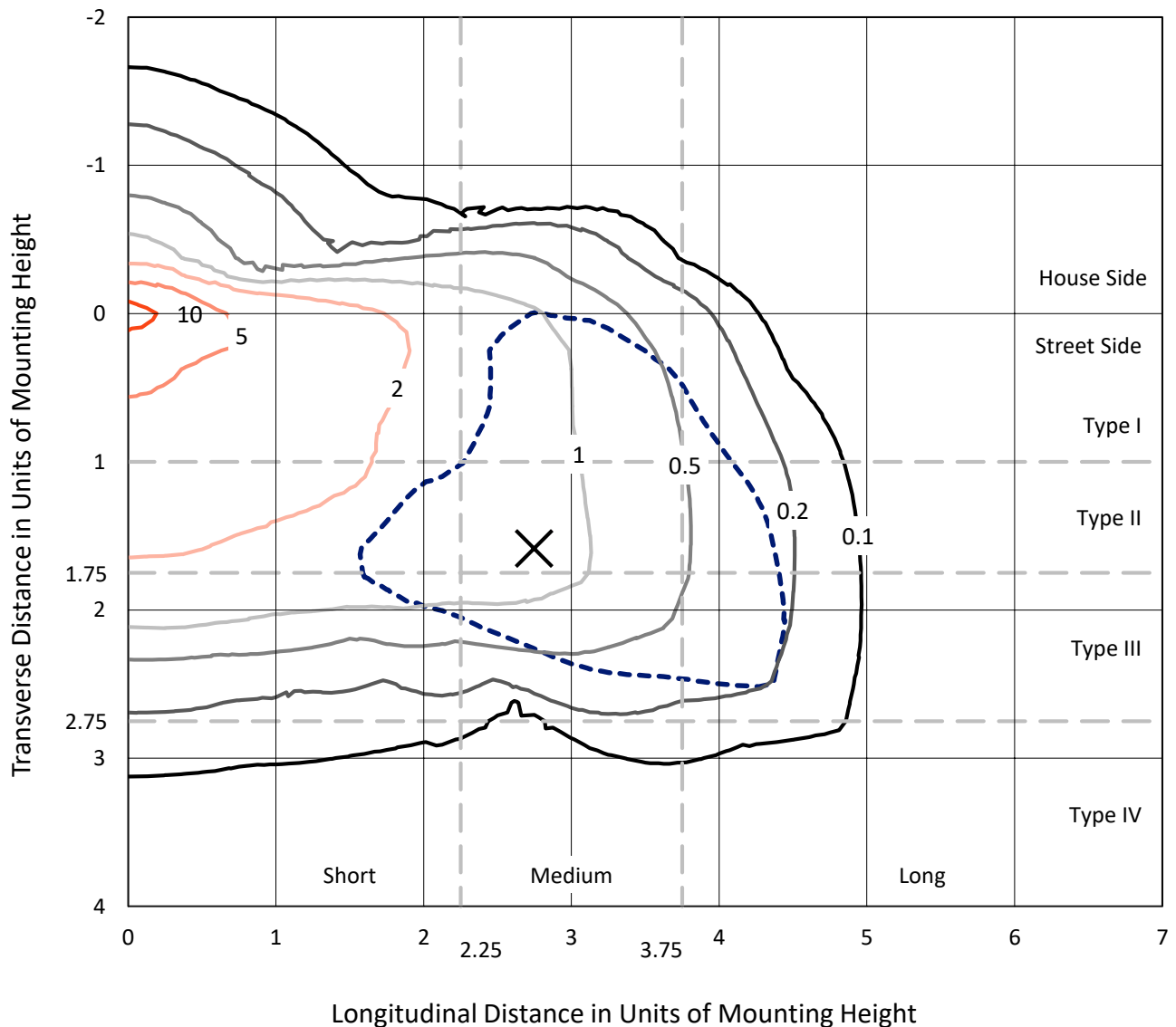
Input Watts (W): 79.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

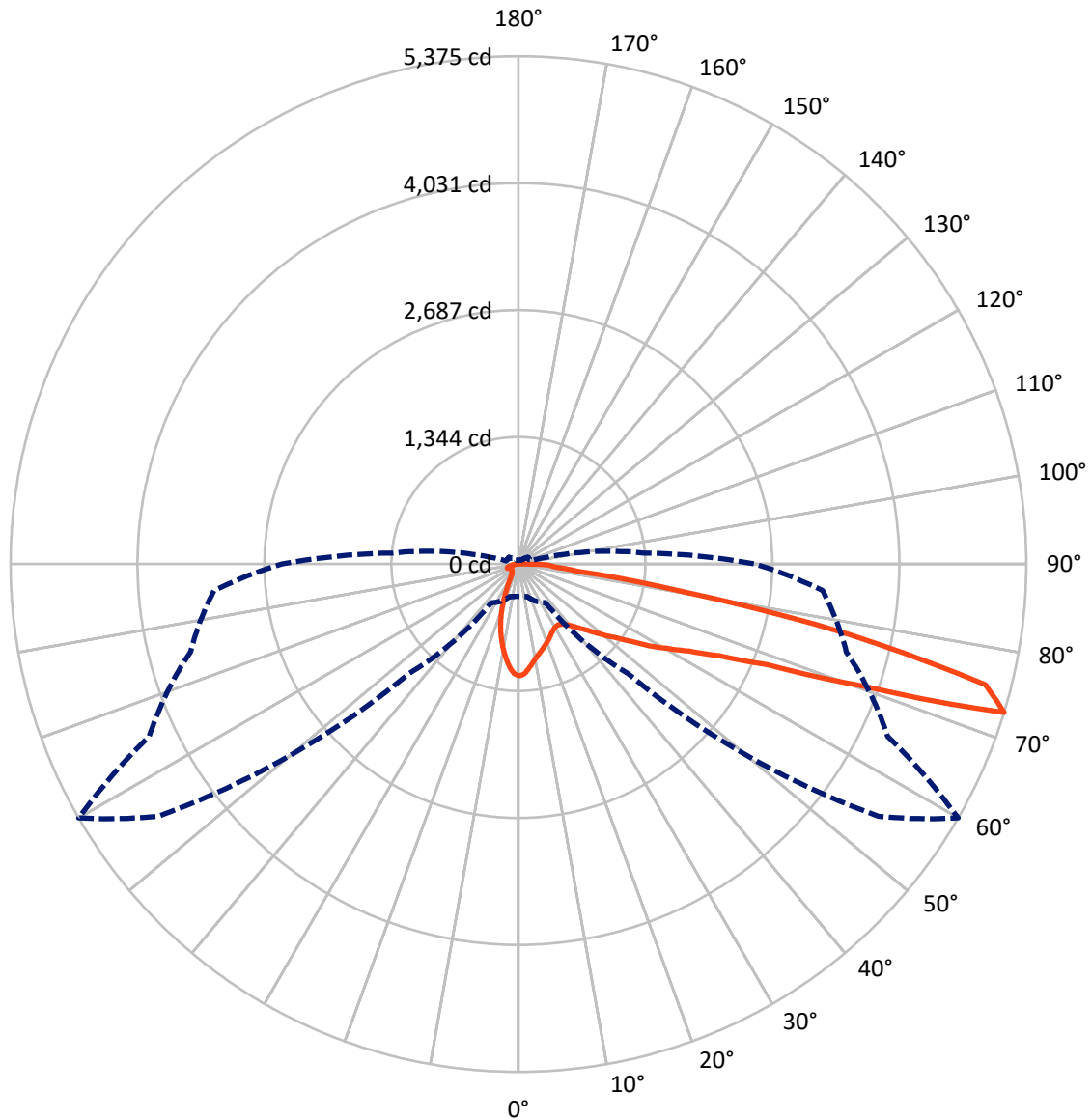
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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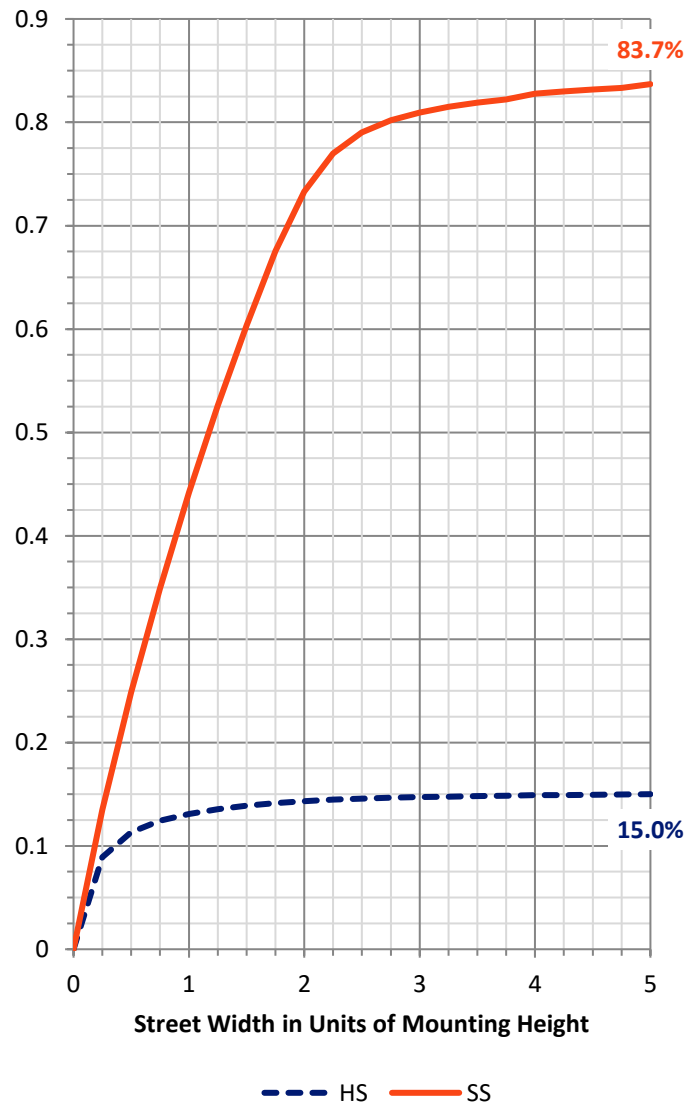
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	642.4	0.0	642.4
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	3585.6	0.0	3585.6
	% Fixture	84.8	0.0	84.8
Total	Lumens	4228.0	0.0	4228.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	2.3
10°-20°	210.6	5.0
20°-30°	260.4	6.2
30°-40°	329.2	7.8
40°-50°	467.5	11.1
50°-60°	712.7	16.9
60°-70°	1075.0	25.4
70°-80°	945.7	22.4
80°-90°	127.7	3.0
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°	4228.0	100.0
0°-180°	4228.0	100.0



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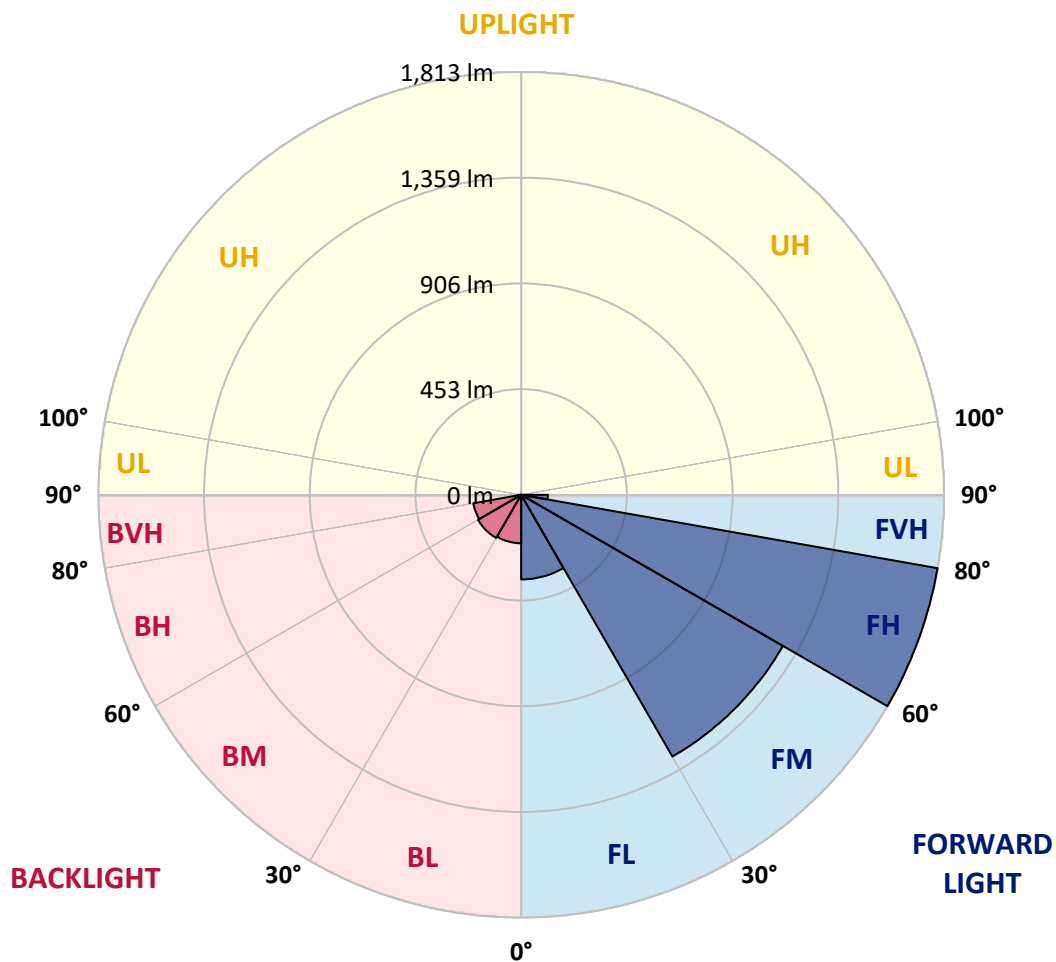
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	362.7	8.6			
FM	(30°-60°)	1295.9	30.6			
FH	(60°-80°)	1812.6	42.9			G2/5000
FVH	(80°-90°)	114.4	2.7			G2/225
BL	(0°-30°)	207.5	4.9	B1/500		
BM	(30°-60°)	213.5	5.0	B0/220		
BH	(60°-80°)	208.1	4.9	B1/500		G1/500
BVH	(80°-90°)	13.3	0.3			G1/100
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°	60°	65°	75°	85°
0°	1181.9	1181.9	1181.9	1181.9	1181.9	1181.9	1181.9	1181.9	1181.9	1181.9	1181.9
2.5°	1149.4	1149.4	1149.4	1156.6	1158.4	1158.4	1165.6	1165.6	1163.8	1171.0	1169.2
5°	1078.9	1082.5	1082.5	1086.1	1097.0	1102.4	1113.2	1115.0	1120.4	1131.3	1138.5
7.5°	992.1	997.6	1006.6	1021.0	1031.9	1040.9	1060.8	1060.8	1069.8	1086.1	1098.8
10°	910.8	912.6	919.8	936.1	957.8	981.3	1004.8	1012.0	1022.9	1042.7	1062.6
12.5°	854.8	858.4	862.0	876.5	900.0	923.5	959.6	974.1	986.7	1010.2	1037.3
15°	795.2	797.0	806.0	824.1	853.0	878.3	919.8	939.7	959.6	990.3	1019.2
17.5°	755.4	753.6	760.8	773.5	804.2	838.5	883.7	907.2	930.7	972.3	1003.0
20°	733.7	735.5	735.5	739.1	759.0	793.3	845.8	876.5	907.2	961.4	993.9
22.5°	728.3	728.3	722.9	721.1	730.1	759.0	811.4	845.8	881.9	959.6	988.5
25°	728.3	728.3	722.9	715.6	715.6	731.9	778.9	811.4	854.8	961.4	981.3
27.5°	740.9	740.9	733.7	722.9	713.8	717.4	753.6	787.9	836.7	965.0	975.9
30°	760.8	759.0	753.6	744.6	726.5	713.8	740.9	771.7	818.6	974.1	972.3
32.5°	780.7	782.5	778.9	771.7	751.8	724.7	739.1	768.0	815.0	986.7	972.3
35°	811.4	813.2	813.2	806.0	789.7	751.8	757.2	782.5	825.9	1006.6	979.5
37.5°	845.8	845.8	851.2	851.2	831.3	789.7	791.5	811.4	847.6	1033.7	997.6
40°	880.1	880.1	889.1	901.8	885.5	842.1	843.9	858.4	890.9	1071.6	1033.7
42.5°	923.5	919.8	939.7	956.0	948.8	909.0	900.0	918.0	941.5	1124.1	1087.9
45°	954.2	954.2	984.9	1004.8	1021.0	981.3	975.9	990.3	1013.8	1181.9	1163.8
47.5°	990.3	992.1	1024.7	1066.2	1091.5	1068.0	1060.8	1080.7	1097.0	1257.8	1259.6
50°	1021.0	1026.5	1069.8	1129.5	1171.0	1172.9	1160.2	1185.5	1185.5	1342.7	1371.6
52.5°	1062.6	1071.6	1127.7	1192.7	1261.4	1284.9	1288.5	1295.7	1297.5	1447.5	1496.3
55°	1167.4	1178.3	1225.3	1279.5	1360.8	1415.0	1453.0	1440.3	1425.9	1561.4	1626.5
57.5°	1353.6	1344.5	1362.6	1375.3	1454.8	1543.3	1637.3	1631.9	1588.5	1693.3	1765.6
60°	1514.4	1518.0	1541.5	1510.8	1563.2	1702.4	1812.6	1814.4	1740.3	1834.3	1893.9
62.5°	1528.9	1552.4	1651.8	1720.4	1799.9	1886.7	2054.7	2031.3	1935.5	1971.6	2043.9
65°	1245.1	1275.9	1438.5	1662.6	2072.8	2441.5	2351.1	2340.3	2174.0	2163.2	2255.3
67.5°	641.5	665.0	751.8	1165.6	1865.0	3014.4	3074.0	2840.9	2502.9	2455.9	2568.0
70°	439.1	440.9	440.9	531.3	910.8	2763.2	4373.3	3880.0	3157.1	2943.9	3084.8
72.5°	343.4	343.4	356.0	433.7	500.6	1639.1	4655.3	5374.5	4311.9	3592.6	3233.0
75°	256.6	258.4	281.9	361.4	487.9	489.7	3894.4	5105.2	4870.3	3543.9	2512.0
77.5°	195.2	191.6	222.3	298.2	475.3	446.4	2101.7	3567.3	3448.1	2409.0	910.8
80°	122.9	128.3	150.0	249.4	455.4	446.4	735.5	1740.3	1393.3	576.5	153.6
82.5°	70.5	74.1	94.0	155.4	408.4	444.6	459.0	630.7	345.2	142.8	72.3
85°	41.6	41.6	59.6	97.6	296.4	439.1	446.4	379.5	191.6	74.1	38.0
87.5°	18.1	21.7	34.3	47.0	133.7	370.5	404.8	321.7	139.2	41.6	19.9
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°	1181.9	1181.9	1181.9	1181.9	1181.9	1181.9	1181.9	1181.9	1181.9	1181.9	1181.9
2.5°	1167.4	1167.4	1163.8	1163.8	1165.6	1156.6	1154.8	1149.4	1153.0	1151.2	1143.9
5°	1136.7	1134.9	1131.3	1111.4	1100.6	1073.5	1073.5	1057.2	1051.8	1051.8	1040.9
7.5°	1098.8	1093.3	1069.8	1037.3	1006.6	977.7	950.6	930.7	916.2	903.6	905.4
10°	1062.6	1051.8	1013.8	957.8	909.0	854.8	813.2	766.2	740.9	704.8	719.3
12.5°	1033.7	1017.4	956.0	876.5	804.2	724.7	641.5	571.1	513.2	477.1	455.4
15°	1010.2	983.1	892.7	793.3	695.8	580.1	468.1	372.3	300.0	278.3	280.1
17.5°	988.5	950.6	836.7	708.4	576.5	435.5	307.2	244.0	220.5	209.6	209.6
20°	968.6	912.6	764.4	614.4	444.6	292.8	220.5	198.8	189.8	184.3	182.5
22.5°	943.3	878.3	694.0	516.8	318.1	211.4	182.5	171.7	169.9	169.9	169.9
25°	923.5	836.7	619.9	395.8	220.5	171.7	157.2	155.4	157.2	159.0	159.0
27.5°	900.0	795.2	545.8	278.3	168.1	144.6	139.2	142.8	146.4	150.0	150.0
30°	878.3	755.4	466.2	195.2	139.2	126.5	126.5	130.1	135.5	139.2	139.2
32.5°	863.8	726.5	372.3	153.6	122.9	115.7	117.5	119.3	124.7	126.5	126.5
35°	853.0	697.6	280.1	130.1	112.0	108.4	110.2	112.0	113.9	115.7	115.7
37.5°	854.8	681.3	200.6	115.7	104.8	103.0	104.8	104.8	104.8	106.6	106.6
40°	876.5	674.1	159.0	106.6	101.2	99.4	99.4	97.6	97.6	99.4	99.4
42.5°	909.0	675.9	141.0	103.0	97.6	95.8	94.0	92.2	92.2	92.2	92.2
45°	961.4	694.0	130.1	99.4	95.8	92.2	88.6	86.7	86.7	90.4	90.4
47.5°	1039.1	721.1	119.3	97.6	92.2	86.7	84.9	83.1	84.9	86.7	88.6
50°	1129.5	744.6	113.9	95.8	92.2	83.1	81.3	79.5	81.3	86.7	86.7
52.5°	1234.3	778.9	112.0	95.8	90.4	81.3	77.7	77.7	79.5	84.9	84.9
55°	1351.8	831.3	113.9	95.8	88.6	79.5	75.9	74.1	77.7	81.3	81.3
57.5°	1474.6	901.8	117.5	95.8	84.9	79.5	74.1	70.5	72.3	75.9	75.9
60°	1597.5	997.6	122.9	94.0	83.1	77.7	72.3	66.9	66.9	70.5	70.5
62.5°	1743.9	1116.8	141.0	97.6	83.1	74.1	66.9	61.4	61.4	63.3	63.3
65°	1935.5	1290.3	168.1	110.2	90.4	70.5	61.4	56.0	56.0	56.0	56.0
67.5°	2251.7	1566.8	178.9	122.9	103.0	70.5	57.8	52.4	50.6	50.6	48.8
70°	2663.8	1747.5	159.0	128.3	122.9	72.3	54.2	47.0	45.2	45.2	43.4
72.5°	2501.1	1331.9	135.5	124.7	124.7	74.1	52.4	45.2	41.6	39.8	39.8
75°	1718.6	618.1	119.3	115.7	108.4	63.3	48.8	41.6	38.0	34.3	34.3
77.5°	506.0	166.3	99.4	101.2	83.1	52.4	45.2	38.0	34.3	30.7	30.7
80°	119.3	95.8	72.3	74.1	56.0	39.8	36.1	34.3	30.7	27.1	27.1
82.5°	68.7	61.4	50.6	47.0	34.3	27.1	28.9	28.9	27.1	23.5	21.7
85°	34.3	36.1	30.7	27.1	21.7	18.1	18.1	19.9	18.1	14.5	14.5
87.5°	19.9	18.1	19.9	14.5	10.8	9.0	10.8	10.8	10.8	7.2	7.2
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)