

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: P402594

Luminaire Tested: **GAN-AF-04-LED-U-SL2-AMB**

Issue Date: 6/8/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P402594  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-4)  
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-SL2-AMB  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4219 lumens  
Efficiency: N/A  
Efficacy: 52.8 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

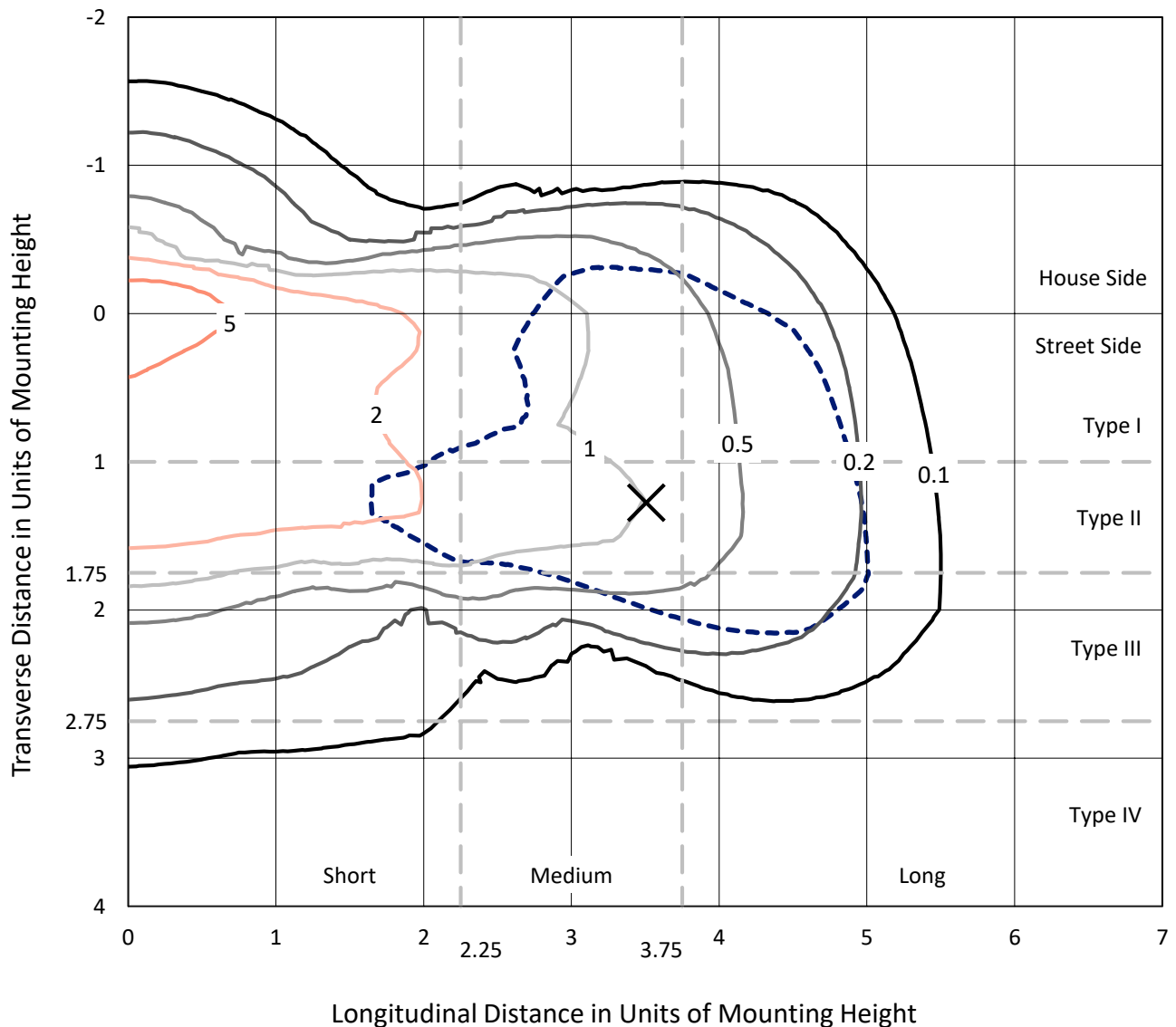


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

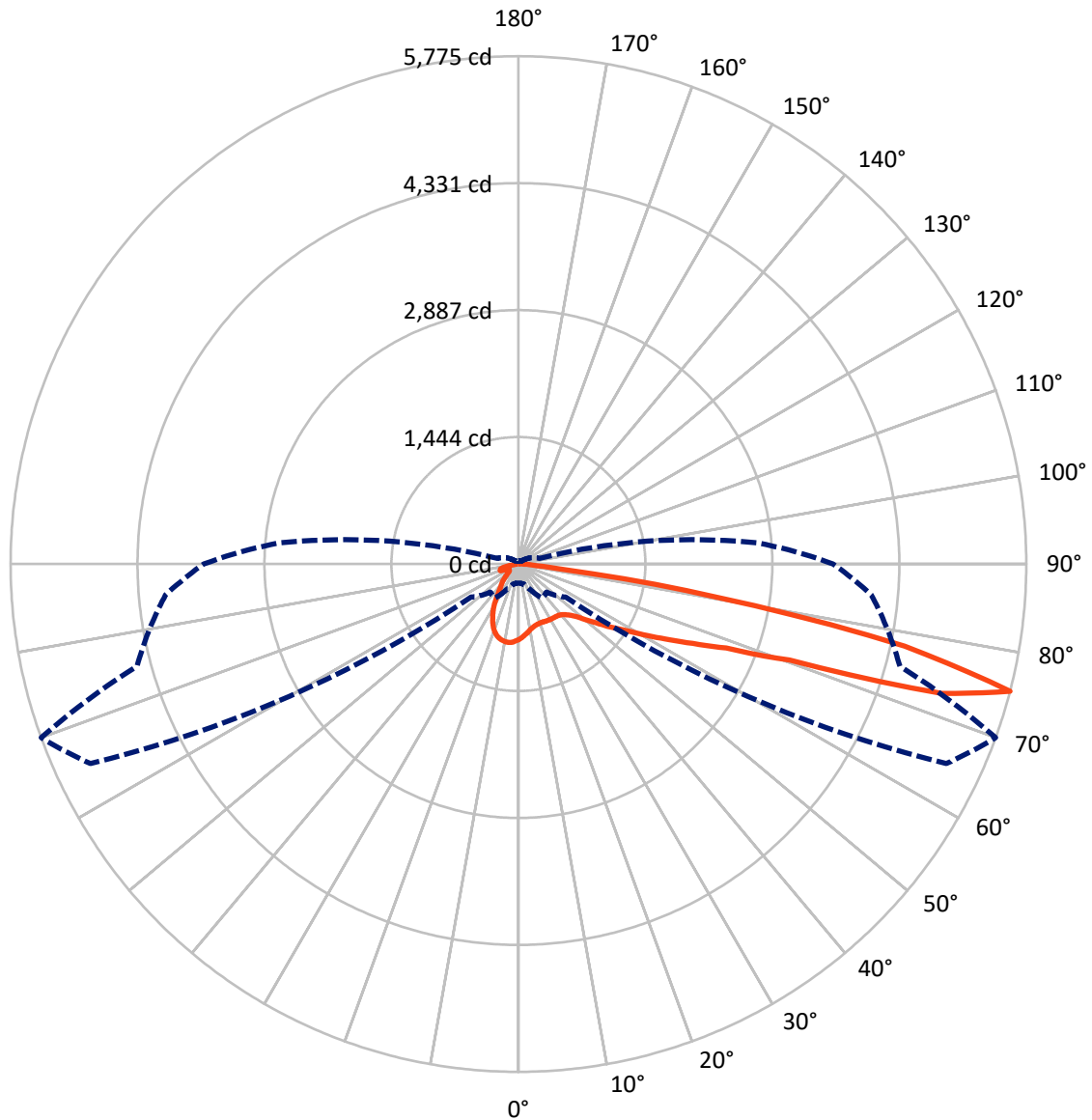


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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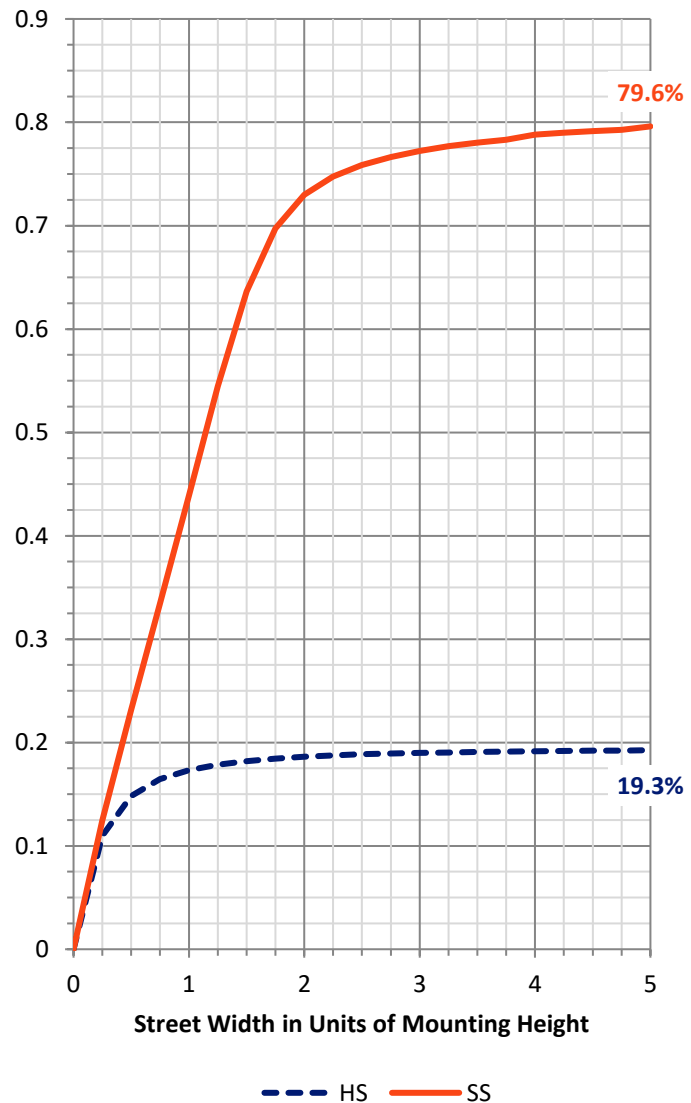
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	823.2	0.0	823.2
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	3395.8	0.0	3395.8
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	4219.0	0.0	4219.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.7	1.8
10°-20°	188.8	4.5
20°-30°	253.9	6.0
30°-40°	334.0	7.9
40°-50°	476.4	11.3
50°-60°	742.2	17.6
60°-70°	968.9	23.0
70°-80°	1029.7	24.4
80°-90°	147.5	3.5
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°	4219.0	100.0
0°-180°	4219.0	100.0

**Coefficient of Utilization**



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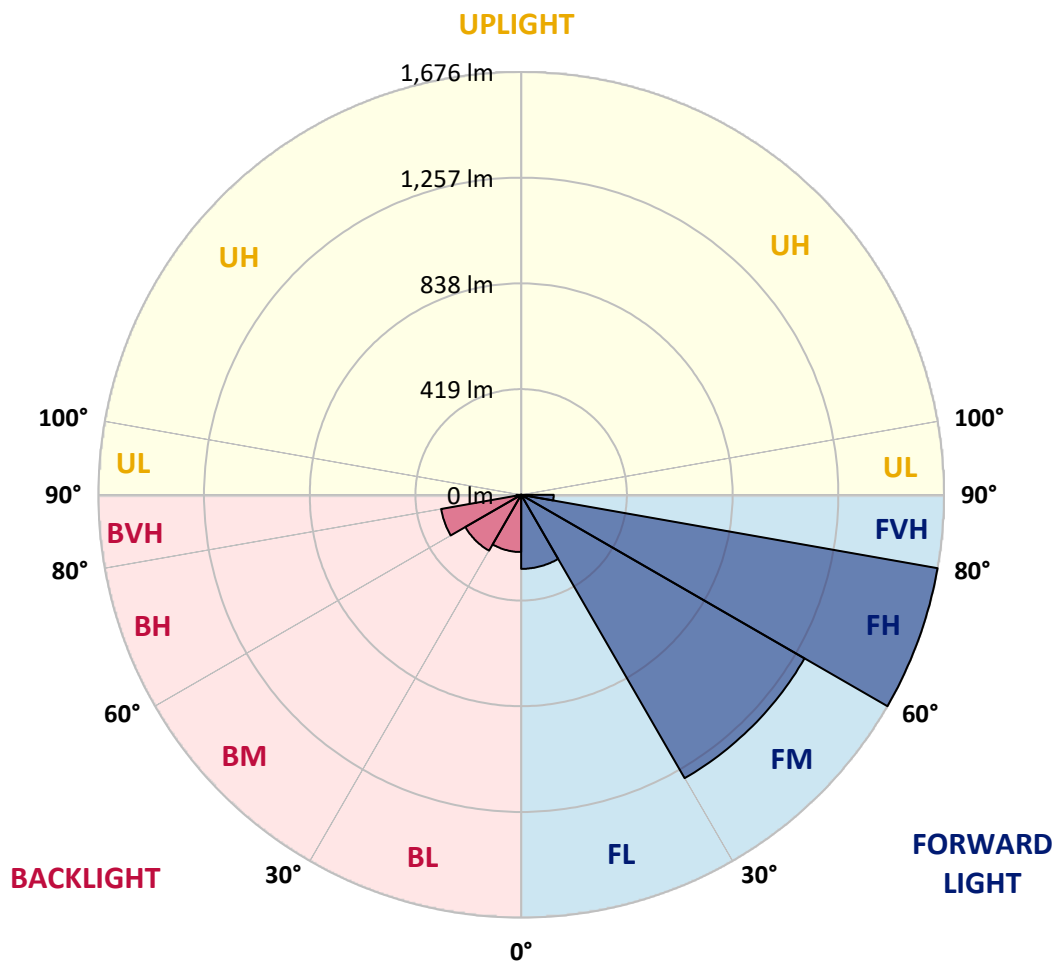
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	293.5	7.0			
FM	(30°-60°)	1297.0	30.7			
FH	(60°-80°)	1676.3	39.7			G1/1800
FVH	(80°-90°)	128.9	3.1			G2/225
BL	(0°-30°)	226.9	5.4	B1/500		
BM	(30°-60°)	255.6	6.1	B1/1000		
BH	(60°-80°)	322.3	7.6	B1/500		G1/500
BVH	(80°-90°)	18.6	0.4			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°	65°	70°	75°	85°
0°	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3
2.5°	804.1	804.1	809.5	809.5	816.7	818.5	825.8	829.4	833.0	838.4	849.3
5°	746.3	744.5	749.9	758.9	767.9	777.0	789.6	802.3	807.7	816.7	834.8
7.5°	702.9	702.9	706.5	711.9	724.6	735.4	755.3	769.8	782.4	795.0	820.3
10°	670.4	670.4	674.0	679.4	692.1	701.1	719.2	744.5	755.3	773.4	805.9
12.5°	639.7	643.3	645.1	652.3	661.3	674.0	692.1	719.2	737.2	758.9	802.3
15°	625.2	625.2	627.0	632.4	641.5	654.1	675.8	704.7	724.6	749.9	804.1
17.5°	621.6	619.8	618.0	619.8	628.8	641.5	663.1	695.7	717.3	746.3	813.1
20°	623.4	621.6	619.8	616.2	619.8	632.4	659.5	692.1	713.7	744.5	827.6
22.5°	632.4	632.4	628.8	621.6	619.8	628.8	657.7	692.1	715.5	746.3	842.0
25°	657.7	655.9	652.3	637.8	627.0	630.6	657.7	695.7	719.2	749.9	854.7
27.5°	684.8	684.8	681.2	668.6	646.9	637.8	661.3	701.1	724.6	753.5	869.1
30°	728.2	726.4	722.8	708.3	681.2	652.3	668.6	706.5	728.2	755.3	881.8
32.5°	780.6	780.6	782.4	764.3	724.6	677.6	675.8	710.1	730.0	757.1	896.2
35°	842.0	843.8	849.3	834.8	786.0	715.5	693.9	719.2	733.6	758.9	910.7
37.5°	887.2	889.0	908.9	912.5	854.7	766.1	722.8	737.2	740.8	762.5	925.1
40°	939.6	939.6	968.5	990.2	952.2	836.6	762.5	758.9	757.1	777.0	943.2
42.5°	997.4	1004.7	1029.9	1066.1	1049.8	917.9	818.5	796.9	787.8	802.3	972.1
45°	1051.6	1055.2	1102.2	1143.8	1145.6	1028.1	898.0	856.5	831.2	847.4	1024.5
47.5°	1111.3	1116.7	1174.5	1241.4	1254.0	1145.6	988.4	930.6	898.0	914.3	1100.4
50°	1198.0	1207.0	1255.8	1337.1	1371.5	1284.7	1104.0	1033.6	997.4	1004.7	1207.0
52.5°	1337.1	1335.3	1358.8	1438.3	1521.4	1438.3	1259.4	1160.0	1111.3	1122.1	1344.4
55°	1420.2	1418.4	1451.0	1537.7	1689.5	1631.7	1431.1	1310.0	1264.8	1259.4	1503.4
57.5°	1346.2	1349.8	1405.8	1541.3	1803.3	1933.4	1619.0	1492.5	1414.8	1423.9	1696.7
60°	1125.7	1104.0	1167.3	1351.6	1769.0	2271.3	1886.4	1713.0	1631.7	1615.4	1940.6
62.5°	758.9	766.1	807.7	927.0	1514.2	2363.5	2569.4	1987.6	1875.6	1846.7	2170.1
65°	571.0	569.2	571.0	590.9	820.3	2276.7	3276.0	2352.6	2177.3	2081.6	2412.2
67.5°	477.0	471.6	469.8	515.0	511.4	1432.9	3510.9	3182.0	2547.8	2345.4	2647.1
70°	404.8	393.9	390.3	462.6	475.2	507.7	3483.8	4725.1	3272.3	2714.0	2957.9
72.5°	307.2	305.4	312.6	393.9	468.0	444.5	2097.8	5400.9	5032.3	3425.9	3599.4
75°	218.6	216.8	236.7	319.8	475.2	451.7	655.9	5368.4	5774.9	4490.2	4027.6
77.5°	144.6	142.7	160.8	229.5	446.3	453.5	428.2	3886.7	4490.2	4206.5	3301.3
80°	95.8	92.2	104.8	159.0	357.8	486.1	419.2	1924.4	2289.4	1947.9	1096.8
82.5°	56.0	54.2	66.9	110.2	234.9	480.6	422.8	605.3	495.1	253.0	137.3
85°	28.9	30.7	43.4	66.9	151.8	424.6	451.7	310.8	144.6	103.0	68.7
87.5°	9.0	12.6	23.5	36.1	84.9	292.7	401.1	240.3	104.8	66.9	37.9
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°	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3
2.5°	852.9	858.3	869.1	881.8	894.4	899.8	907.1	908.9	912.5	914.3	912.5
5°	847.4	860.1	883.6	899.8	910.7	908.9	907.1	901.7	899.8	898.0	894.4
7.5°	836.6	858.3	892.6	907.1	899.8	878.2	860.1	838.4	831.2	822.2	820.3
10°	831.2	861.9	896.2	894.4	865.5	824.0	787.8	753.5	730.0	715.5	708.3
12.5°	836.6	874.6	903.5	870.9	820.3	757.1	693.9	641.5	589.1	571.0	562.0
15°	852.9	894.4	903.5	840.2	762.5	672.2	576.4	493.3	431.9	401.1	395.7
17.5°	872.7	910.7	890.8	802.3	695.7	565.6	451.7	345.1	298.1	285.5	283.7
20°	896.2	930.6	870.9	755.3	608.9	455.3	307.2	253.0	247.5	249.4	251.2
22.5°	916.1	939.6	838.4	692.1	505.9	305.4	215.0	204.2	215.0	229.5	233.1
25°	930.6	934.2	802.3	612.5	388.5	195.1	169.9	168.0	184.3	209.6	216.8
27.5°	939.6	916.1	753.5	527.6	238.5	151.8	139.1	144.6	157.2	175.3	178.9
30°	945.0	898.0	706.5	439.1	151.8	128.3	126.5	130.1	135.5	144.6	146.4
32.5°	946.8	880.0	655.9	327.1	128.3	117.5	117.5	121.1	122.9	128.3	128.3
35°	943.2	858.3	605.3	206.0	117.5	113.8	112.0	112.0	112.0	113.8	113.8
37.5°	934.2	836.6	545.7	137.3	112.0	108.4	106.6	106.6	104.8	104.8	104.8
40°	928.8	818.5	489.7	119.3	106.6	104.8	103.0	99.4	97.6	97.6	97.6
42.5°	934.2	809.5	421.0	113.8	103.0	101.2	97.6	94.0	94.0	94.0	94.0
45°	957.7	811.3	334.3	110.2	101.2	97.6	92.2	88.5	88.5	90.3	90.3
47.5°	1002.8	827.6	258.4	106.6	97.6	94.0	86.7	84.9	84.9	84.9	84.9
50°	1071.5	860.1	204.2	103.0	95.8	90.3	84.9	81.3	81.3	81.3	79.5
52.5°	1169.1	919.7	160.8	101.2	94.0	88.5	81.3	77.7	75.9	75.9	74.1
55°	1304.6	1013.7	148.2	101.2	90.3	84.9	77.7	72.3	70.5	68.7	68.7
57.5°	1485.3	1147.4	146.4	99.4	84.9	79.5	72.3	66.9	65.0	65.0	63.2
60°	1705.7	1326.3	148.2	95.8	81.3	74.1	66.9	63.2	59.6	59.6	59.6
62.5°	1953.3	1521.4	148.2	94.0	79.5	70.5	63.2	57.8	56.0	54.2	54.2
65°	2204.4	1759.9	159.0	92.2	75.9	63.2	57.8	54.2	50.6	50.6	50.6
67.5°	2480.9	2050.9	216.8	92.2	72.3	57.8	52.4	48.8	47.0	47.0	47.0
70°	2838.7	2531.5	328.9	115.6	74.1	54.2	47.0	45.2	43.4	43.4	43.4
72.5°	3574.1	3086.2	262.0	160.8	86.7	48.8	41.6	39.8	39.8	37.9	37.9
75°	3577.7	2737.5	249.4	171.7	94.0	45.2	37.9	36.1	34.3	34.3	34.3
77.5°	2645.3	1787.0	213.2	133.7	81.3	39.8	34.3	32.5	30.7	30.7	30.7
80°	780.6	460.8	133.7	97.6	52.4	32.5	28.9	27.1	25.3	25.3	25.3
82.5°	133.7	121.1	61.4	52.4	32.5	25.3	23.5	21.7	19.9	19.9	19.9
85°	65.0	63.2	34.3	28.9	21.7	18.1	18.1	16.3	14.5	14.5	14.5
87.5°	39.8	36.1	25.3	16.3	12.6	9.0	10.8	9.0	9.0	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)