

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: McGRAW-EDISON

Report Number: P652295

Luminaire Tested: **GALN-SA3B-840-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652295  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-840-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10679 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

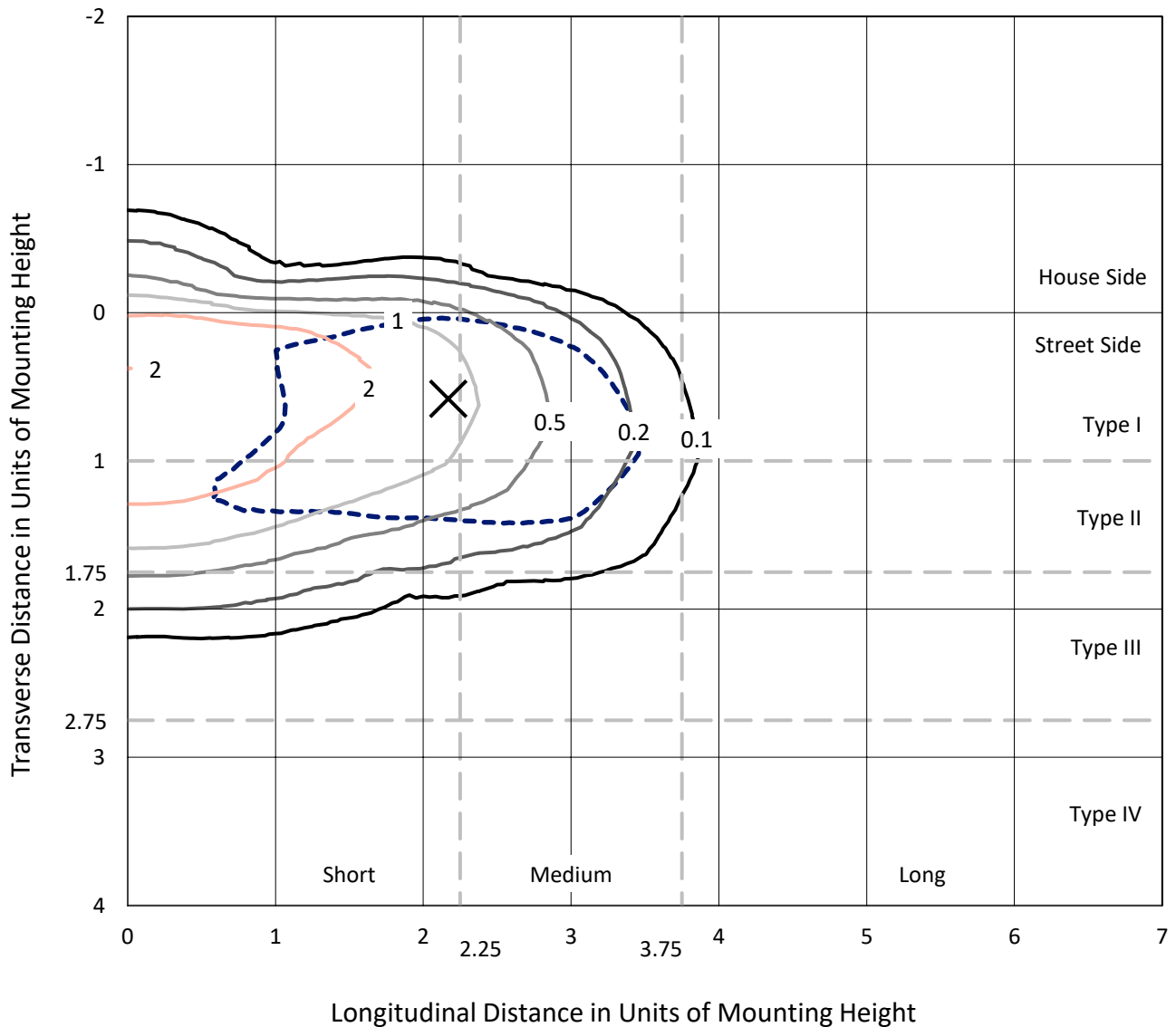
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

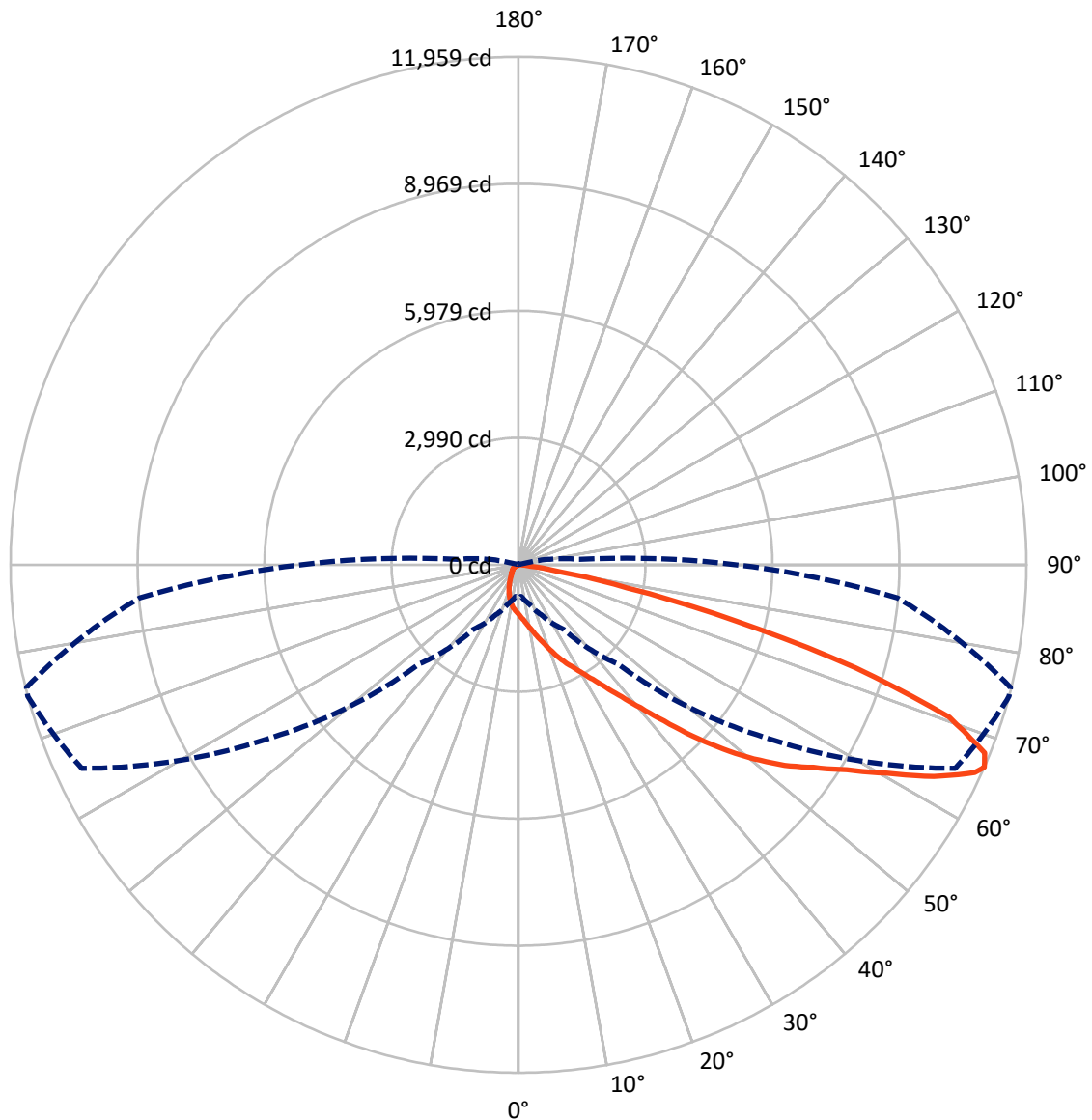
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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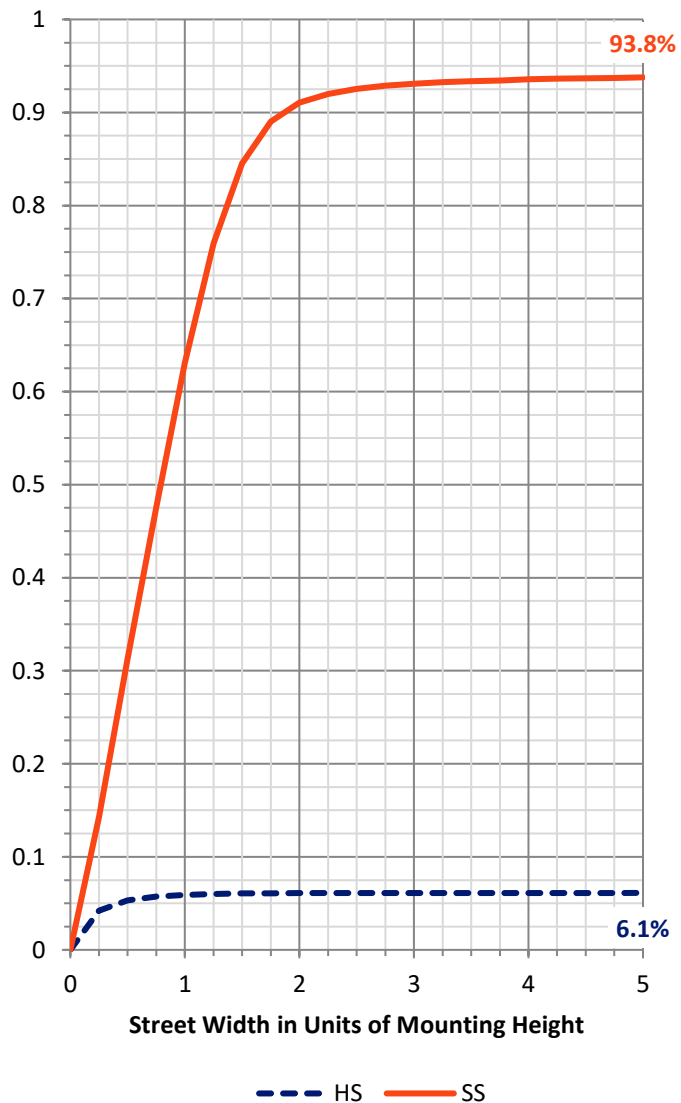
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	659.3	0.0	659.3
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	10019.7	0.0	10019.7
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	10679.0	0.0	10679.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.6	1.1
10°-20°	331.5	3.1
20°-30°	572.4	5.4
30°-40°	1032.6	9.7
40°-50°	1865.4	17.5
50°-60°	2908.1	27.2
60°-70°	2762.6	25.9
70°-80°	1035.4	9.7
80°-90°	58.4	0.5
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°	10679.0	100.0
0°-180°	10679.0	100.0

**Coefficient of Utilization**

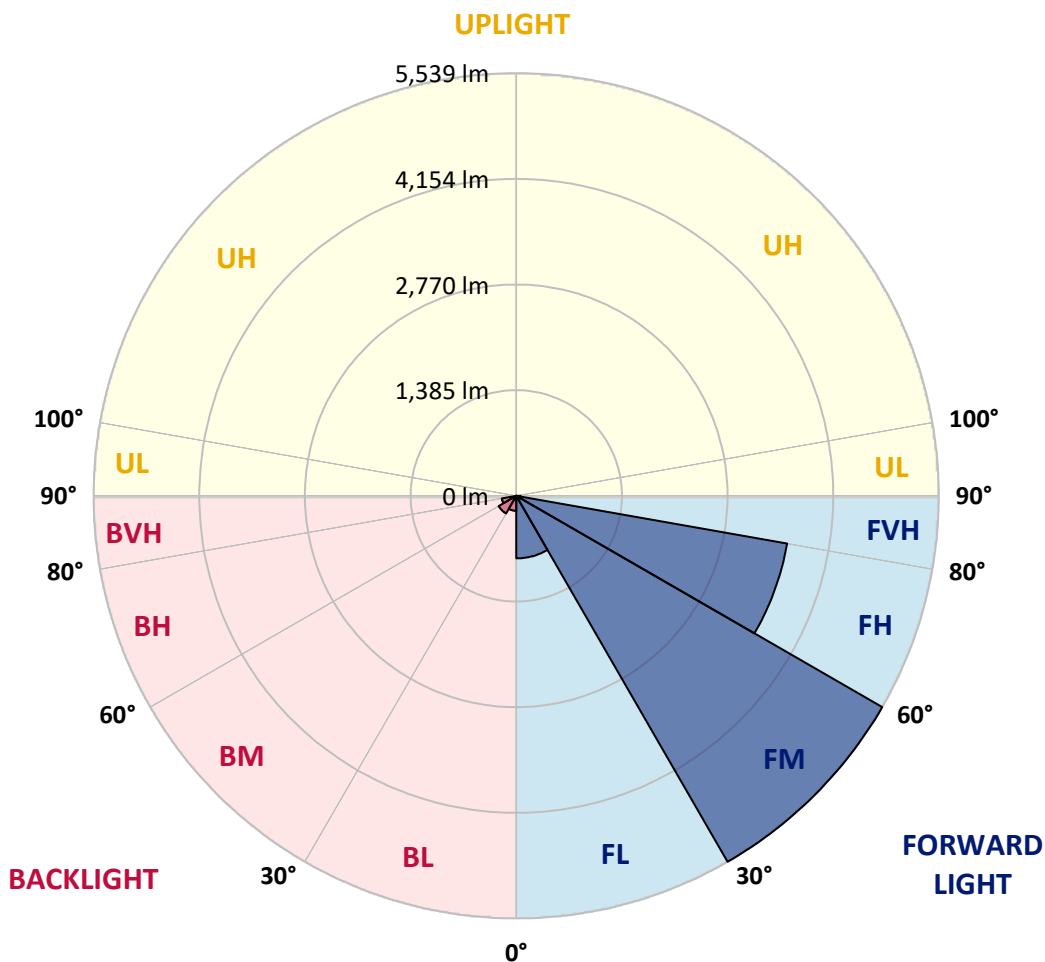


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	819.7	7.7			
FM (30°-60°)	5539.2	51.9			
FH (60°-80°)	3605.4	33.8			G2/5000
FVH (80°-90°)	55.4	0.5			G1/100
BL (0°-30°)	196.9	1.8	B1/500		
BM (30°-60°)	266.9	2.5	B1/1000		
BH (60°-80°)	192.5	1.8	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1167.9	1167.9	1167.9	1167.9	1167.9	1167.9	1167.9	1167.9	1167.9	1167.9	1167.9
2.5°	1395.3	1377.9	1383.4	1375.5	1357.4	1330.5	1306.8	1272.9	1239.0	1233.4	1195.5
5°	1579.2	1574.5	1568.2	1545.3	1532.6	1491.6	1442.7	1384.2	1314.0	1301.3	1232.6
7.5°	1704.8	1702.4	1705.6	1693.8	1682.7	1645.6	1593.4	1513.7	1404.7	1397.7	1283.1
10°	1745.8	1752.1	1764.0	1783.0	1800.3	1788.5	1749.0	1649.5	1522.4	1501.9	1340.8
12.5°	1722.2	1729.3	1757.7	1808.2	1864.3	1896.7	1880.9	1808.2	1647.2	1630.6	1405.6
15°	1661.4	1670.1	1710.3	1788.5	1888.8	1980.4	2019.8	1967.8	1792.4	1765.6	1483.7
17.5°	1571.3	1584.0	1641.6	1745.1	1882.5	2040.4	2151.7	2134.4	1947.3	1921.9	1569.0
20°	1503.5	1513.0	1561.9	1680.3	1855.6	2073.6	2277.3	2326.2	2138.3	2094.8	1669.3
22.5°	1548.4	1551.6	1568.2	1639.3	1807.5	2082.2	2387.9	2526.0	2341.3	2302.6	1773.5
25°	1768.8	1737.2	1720.6	1704.8	1797.2	2074.3	2488.1	2734.5	2543.4	2502.3	1876.9
27.5°	2116.2	2102.0	2018.3	1906.1	1884.8	2084.6	2554.5	2931.9	2733.7	2689.4	1978.0
30°	2494.4	2469.9	2418.6	2254.4	2089.4	2157.2	2602.6	3123.7	2958.7	2900.3	2070.4
32.5°	2841.8	2857.6	2781.1	2612.1	2421.0	2312.0	2665.0	3333.1	3216.9	3144.3	2177.8
35°	3246.9	3278.6	3160.9	2999.0	2775.6	2591.5	2786.6	3569.1	3544.6	3453.1	2343.6
37.5°	3658.4	3677.3	3605.5	3378.0	3176.6	2946.9	3015.6	3860.4	3948.2	3869.9	2541.8
40°	4004.2	4030.2	3977.3	3775.2	3560.5	3358.3	3348.0	4177.9	4428.2	4347.7	2837.1
42.5°	4268.7	4288.4	4290.0	4147.1	3953.6	3862.0	3772.1	4582.9	5029.9	4936.8	3179.8
45°	4602.7	4631.1	4614.6	4517.4	4372.9	4356.4	4309.8	5072.6	5750.1	5632.4	3624.4
47.5°	5119.2	5138.1	5097.0	4982.5	4835.7	4861.7	4834.1	5621.3	6484.4	6383.4	4084.7
50°	5477.6	5509.2	5567.7	5613.4	5506.9	5410.5	5328.4	6133.8	7181.6	7090.8	4555.4
52.5°	5473.6	5525.8	5710.6	5941.2	6174.1	6144.9	5908.8	6700.0	7847.3	7735.2	4997.6
55°	5105.0	5206.0	5477.6	5886.7	6531.8	6853.1	6745.7	7355.4	8422.1	8346.3	5510.0
57.5°	4343.8	4405.3	4782.8	5354.5	6332.0	7186.3	7715.4	8243.7	9111.5	9076.0	6306.0
60°	2921.6	2949.2	3434.9	4141.6	5390.8	6854.0	8426.1	9318.4	9960.3	9943.0	7235.4
62.5°	1674.0	1685.9	2038.0	2634.2	3836.0	5808.5	8486.1	10644.1	10978.2	10987.7	8310.8
65°	901.0	907.3	1191.5	1546.1	2334.1	4140.0	7631.0	11370.6	11800.9	11819.1	8977.3
66°	777.8	747.8	948.3	1317.8	1857.2	3295.1	7090.1	11344.6	11958.9	11939.2	8953.5
67.5°	591.4	618.3	757.2	1013.1	1376.3	2342.9	5853.5	10840.0	11838.8	11777.3	8589.6
70°	423.3	434.3	539.3	722.5	937.3	1285.5	3740.4	9003.3	10760.3	10677.3	7483.3
72.5°	273.2	285.0	382.2	522.8	677.5	702.0	2094.1	6505.0	8295.8	8283.9	5635.5
75°	195.0	206.1	252.7	374.2	509.3	434.3	1008.4	4384.0	5273.9	5238.3	3486.2
77.5°	141.4	146.8	169.0	244.8	364.0	311.1	467.4	2341.3	2625.5	2749.5	1540.5
80°	81.3	86.0	117.7	149.3	246.3	212.4	223.5	939.6	968.8	922.2	481.6
82.5°	40.3	45.8	70.3	101.8	154.0	142.9	102.7	282.7	298.5	290.6	121.6
85°	9.5	11.9	39.4	67.1	75.0	64.0	49.8	82.9	102.7	100.2	46.6
87.5°	0.8	1.6	14.2	11.9	12.6	21.4	17.4	21.4	33.1	30.8	16.6
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°	1167.9	1167.9	1167.9	1167.9	1167.9	1167.9	1167.9	1167.9	1167.9	1167.9	1167.9
2.5°	1178.2	1163.1	1119.7	1077.1	1041.5	1004.4	970.4	950.8	942.8	934.1	938.1
5°	1194.7	1158.4	1070.8	994.9	920.7	857.6	807.0	774.6	758.8	756.5	752.5
7.5°	1216.8	1154.4	1018.6	900.2	803.1	732.8	675.2	628.6	614.4	601.7	591.4
10°	1243.7	1147.3	953.9	800.7	697.3	608.8	533.0	477.7	449.3	441.4	446.9
12.5°	1272.1	1133.9	886.0	709.0	589.9	476.9	406.6	379.0	371.1	367.9	368.8
15°	1300.5	1117.4	814.9	620.7	469.9	380.6	348.3	341.1	338.0	336.4	334.8
17.5°	1326.6	1090.4	735.1	534.5	380.6	325.3	313.4	307.1	300.8	298.5	294.5
20°	1357.4	1059.7	663.3	438.2	322.2	294.5	280.3	268.4	259.0	252.7	251.9
22.5°	1386.6	1020.2	588.3	363.2	293.8	264.5	241.6	229.0	217.9	210.1	212.4
25°	1402.4	972.0	521.2	316.6	267.7	234.6	209.2	193.4	181.6	177.7	176.9
27.5°	1402.4	912.8	455.7	289.8	244.0	207.6	181.6	166.6	158.7	153.1	154.0
30°	1391.4	847.3	394.8	269.3	223.5	184.0	159.5	146.1	139.8	135.8	135.1
32.5°	1382.6	784.9	342.7	249.5	202.2	163.5	142.1	131.9	125.6	121.6	121.6
35°	1396.1	731.2	302.4	229.8	182.4	147.7	128.7	119.3	112.9	109.8	109.0
37.5°	1431.6	682.2	271.6	208.5	164.2	134.2	119.3	108.2	101.8	97.9	96.3
40°	1519.3	654.6	248.8	188.7	146.8	123.2	108.2	97.9	90.0	86.0	85.3
42.5°	1659.8	655.4	226.6	170.6	133.5	113.7	98.7	86.9	78.2	74.3	73.4
45°	1871.4	685.4	209.2	153.1	121.6	103.4	88.5	75.8	67.9	64.0	64.0
47.5°	2124.9	743.9	194.3	138.2	110.5	93.9	78.2	65.5	57.6	54.5	54.5
50°	2399.7	819.6	179.2	122.4	101.1	83.7	67.1	56.9	50.5	48.2	48.2
52.5°	2680.0	911.2	164.2	109.8	90.8	72.7	57.6	50.5	45.0	43.4	42.6
55°	3048.0	1028.1	148.4	96.3	79.7	62.4	51.3	44.2	37.9	35.6	34.7
57.5°	3614.1	1204.1	131.1	84.5	65.5	52.1	44.2	37.1	30.0	26.1	25.2
60°	4297.2	1418.9	112.9	74.3	52.9	42.6	35.6	28.4	22.1	17.4	16.6
62.5°	4936.8	1555.6	95.5	62.4	41.9	32.4	25.2	21.4	15.8	11.0	10.3
65°	5219.4	1509.8	79.0	50.5	33.1	22.9	16.6	15.0	9.5	4.7	4.0
66°	5125.5	1441.9	72.7	45.8	30.0	19.8	14.2	12.6	7.1	2.4	2.4
67.5°	4848.3	1281.6	63.2	39.4	26.1	15.8	11.0	9.5	4.0	0.8	0.0
70°	4154.2	1036.8	49.8	29.2	18.9	11.0	6.3	4.7	2.4	0.0	0.0
72.5°	3190.8	772.3	39.4	22.1	13.5	6.3	3.2	1.6	2.4	0.0	0.0
75°	1955.1	441.4	30.8	16.6	8.7	4.0	2.4	0.0	2.4	0.8	0.0
77.5°	867.8	198.2	20.5	11.0	6.3	3.2	1.6	0.0	1.6	0.8	0.0
80°	219.5	64.8	11.9	7.9	4.7	2.4	0.8	0.0	1.6	1.6	0.8
82.5°	60.0	23.7	8.7	6.3	4.0	2.4	0.8	0.0	1.6	1.6	1.6
85°	23.7	11.0	7.9	6.3	4.7	2.4	0.8	0.0	1.6	1.6	1.6
87.5°	11.0	7.9	7.9	7.1	5.6	2.4	0.8	0.0	1.6	0.8	1.6
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)