

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: P647458

Luminaire Tested: **GALN-SA5D-835-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647458  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-835-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24286.3 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 309  
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

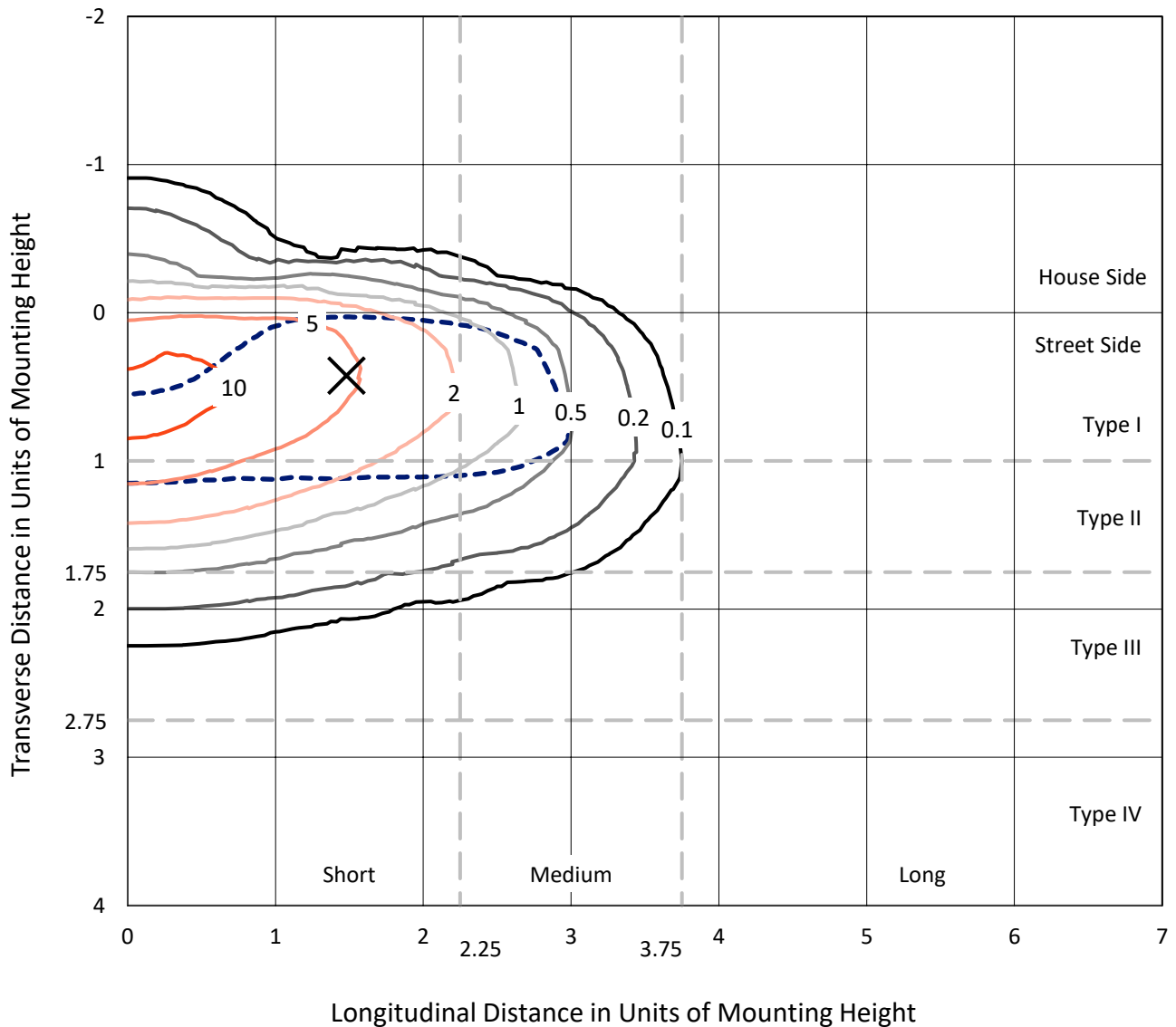




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### Iso-Footcandle Lines of Horizontal Illumination

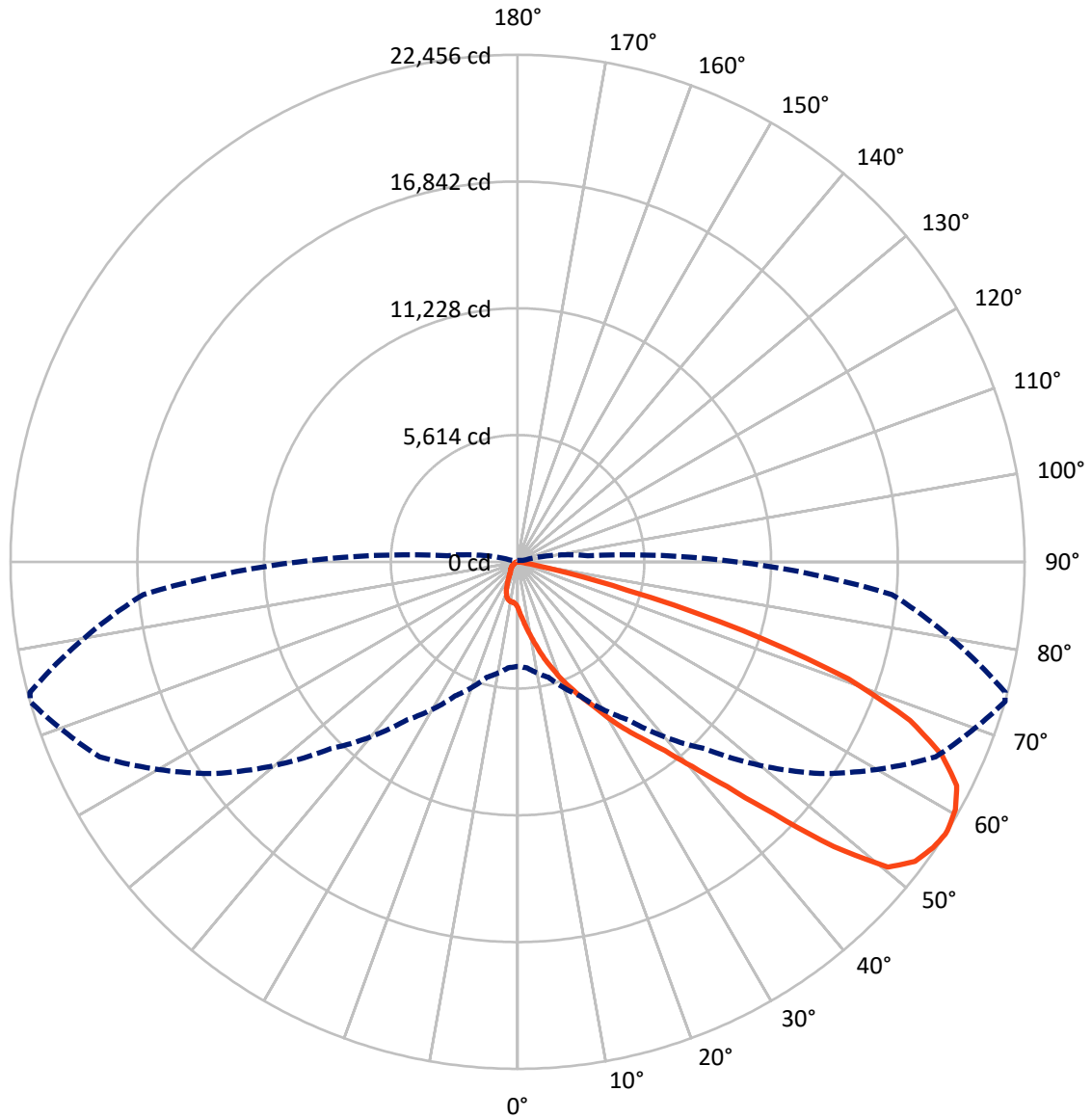
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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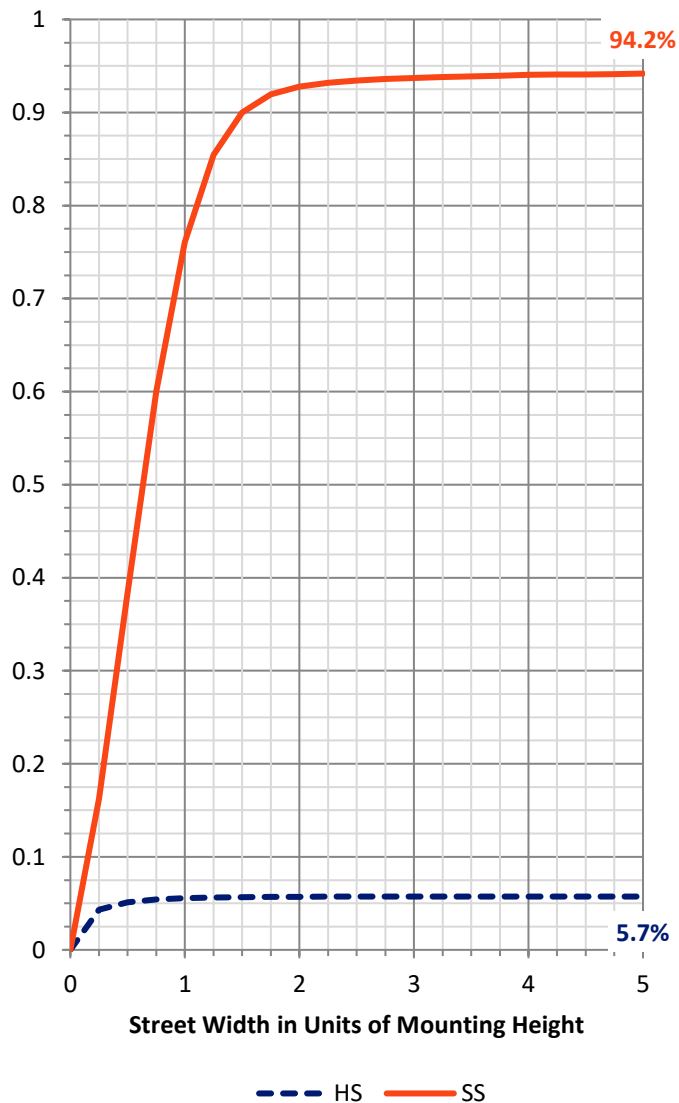
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1400.7	0.0	1400.7
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	22885.6	0.0	22885.6
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	24286.3	0.0	24286.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.5	1.0
10°-20°	967.7	4.0
20°-30°	2070.6	8.5
30°-40°	3805.7	15.7
40°-50°	5834.2	24.0
50°-60°	6171.8	25.4
60°-70°	4030.3	16.6
70°-80°	1101.2	4.5
80°-90°	59.3	0.2
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°	24286.3	100.0
0°-180°	24286.3	100.0

**Coefficient of Utilization**



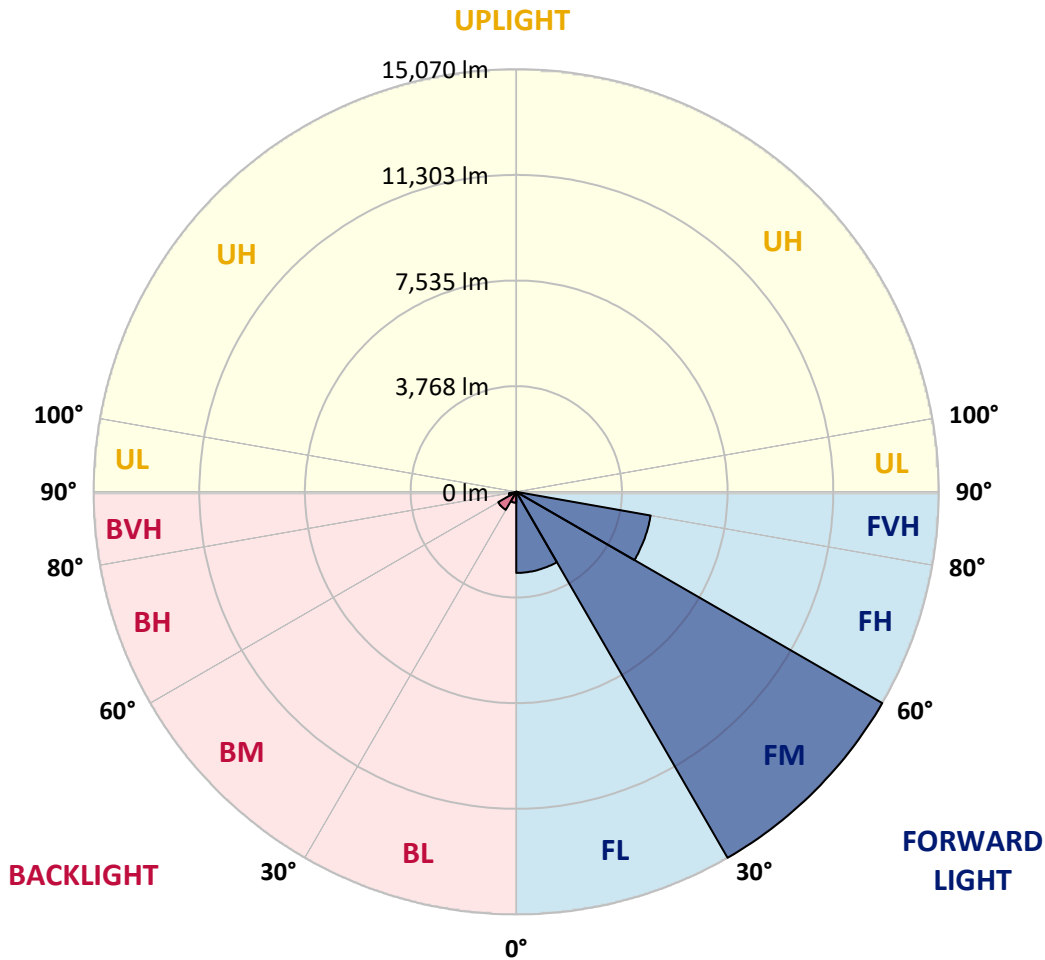
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2892.5	11.9			
FM (30°-60°)	15070.1	62.1			
FH (60°-80°)	4868.6	20.0			G2/5000
FVH (80°-90°)	54.4	0.2			G1/100
BL (0°-30°)	391.3	1.6	B1/500		
BM (30°-60°)	741.6	3.1	B1/1000		
BH (60°-80°)	263.0	1.1	B1/500		G1/500
BVH (80°-90°)	4.9	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°	74°	75°	85°
0°	2033.9	2033.9	2033.9	2033.9	2033.9	2033.9	2033.9	2033.9	2033.9	2033.9	2033.9
2.5°	2976.3	2949.5	2895.8	2877.4	2798.6	2676.1	2568.9	2424.6	2310.6	2298.9	2161.4
5°	3985.7	3925.3	3900.2	3779.5	3590.0	3412.2	3107.1	2875.7	2609.1	2589.0	2312.3
7.5°	4958.3	4874.4	4849.3	4735.3	4513.9	4233.9	3838.2	3417.3	2994.7	2956.2	2515.2
10°	5662.5	5674.2	5629.0	5553.5	5374.1	5089.0	4601.1	4026.0	3424.0	3375.4	2743.2
12.5°	6167.2	6165.6	6174.0	6172.2	6076.7	5860.4	5347.3	4684.9	3896.8	3801.3	3004.8
15°	6495.9	6500.9	6526.1	6613.3	6623.3	6489.2	6061.6	5315.4	4445.2	4326.2	3288.2
17.5°	6827.9	6863.1	6903.3	6985.5	7059.3	7005.7	6703.8	5972.7	4941.5	4852.6	3591.7
20°	7376.2	7424.8	7401.4	7451.7	7490.3	7495.3	7262.2	6579.7	5543.5	5394.2	3938.8
22.5°	8253.1	8251.5	8191.1	8100.6	8025.1	8021.8	7810.5	7203.5	6090.1	5945.9	4287.6
25°	9361.5	9366.6	9249.2	8991.0	8803.1	8573.5	8330.3	7750.1	6675.3	6497.6	4654.8
27.5°	10632.5	10600.6	10422.9	10067.4	9695.2	9302.8	8952.4	8385.6	7295.7	7148.2	5075.6
30°	11774.4	11762.7	11554.7	11120.5	10630.9	10236.8	9728.8	9182.1	8098.9	7917.8	5546.9
32.5°	12837.5	12854.3	12565.9	12116.5	11643.6	11189.2	10652.6	9943.4	8887.0	8630.5	6060.0
35°	13667.5	13684.3	13385.9	13011.9	12525.7	12148.3	11636.9	10754.9	9665.0	9448.7	6650.2
37.5°	14110.2	14132.0	13959.2	13677.6	13374.1	13184.6	12708.4	11799.6	10610.7	10479.9	7347.7
40°	14194.1	14219.2	14143.7	14068.2	14051.5	14187.3	14048.1	13030.4	11922.0	11717.4	8387.3
42.5°	13942.5	13976.1	14009.6	14177.2	14519.3	15017.3	15501.9	14700.4	13610.5	13335.5	9658.3
45°	13281.9	13278.5	13411.0	13845.2	14611.6	15674.6	17021.1	16791.4	15911.0	15584.1	11454.2
47.5°	12151.7	12134.9	12421.7	13040.4	14234.3	15795.4	18260.3	19330.1	18847.1	18545.3	13384.1
50°	10429.6	10511.8	10962.9	11826.4	13297.0	15429.8	18642.5	20995.1	21256.6	20936.4	14943.6
52.5°	8412.5	8409.1	9116.7	10288.8	11908.6	14625.0	18375.9	21296.9	22039.7	21795.0	15711.5
55°	6225.9	6269.5	7005.7	8187.8	10106.0	13156.1	17505.7	20986.7	22338.2	22165.5	16217.9
57°	4631.3	4708.4	5298.6	6549.6	8536.6	11702.3	16347.0	20431.7	22455.6	22361.7	16638.8
57.5°	4322.8	4326.2	4901.3	6038.1	8077.1	11144.0	16015.0	20200.3	22452.2	22400.2	16707.6
60°	2661.1	2744.9	3142.3	4081.3	5912.4	8697.5	13790.0	18870.6	22277.8	22353.3	17001.0
62.5°	1592.9	1628.2	1886.4	2459.9	3811.3	6348.3	11284.8	17168.7	21823.5	22053.1	16980.8
65°	1024.6	1032.9	1150.3	1489.0	2382.7	4290.9	8695.8	14920.1	20648.0	21070.5	16316.9
67.5°	791.5	804.8	851.8	977.6	1381.7	2672.8	6150.5	12520.6	18746.5	19291.5	14707.2
70°	702.6	709.3	726.1	766.3	913.8	1509.1	3826.4	9780.7	15545.5	15699.8	11509.5
72.5°	573.5	591.9	643.9	657.3	724.4	942.3	2129.5	6564.7	10444.8	10483.3	6438.8
75°	444.4	447.7	524.8	563.4	610.3	649.0	950.7	3310.0	5017.0	4748.7	2481.6
77.5°	332.0	347.1	382.3	431.0	498.0	464.5	425.9	1247.6	1557.7	1529.2	721.0
80°	213.0	221.4	266.6	323.6	387.4	303.5	239.8	365.5	342.1	352.1	172.7
82.5°	107.3	109.0	171.0	263.2	246.5	152.6	150.9	149.2	127.5	125.7	80.5
85°	11.7	25.1	110.6	150.9	110.6	50.3	70.4	68.7	67.1	68.7	47.0
87.5°	1.6	1.6	18.5	21.8	15.1	16.8	20.1	21.8	26.9	25.1	20.1
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°	2033.9	2033.9	2033.9	2033.9	2033.9	2033.9	2033.9	2033.9	2033.9	2033.9	2033.9
2.5°	2094.3	2027.3	1903.2	1784.1	1695.3	1638.2	1564.4	1537.7	1499.1	1494.0	1475.6
5°	2184.9	2057.4	1841.1	1670.1	1532.6	1428.7	1338.1	1262.6	1202.3	1188.8	1195.6
7.5°	2314.0	2124.5	1822.7	1589.6	1398.4	1220.7	1076.5	987.6	923.9	900.4	903.8
10°	2459.9	2213.4	1819.3	1504.1	1212.3	994.3	836.7	757.9	721.0	707.6	692.5
12.5°	2632.5	2315.6	1810.9	1371.6	1007.7	793.1	680.7	633.8	598.6	588.6	588.6
15°	2827.1	2424.6	1770.7	1207.3	818.2	655.6	580.2	543.2	531.6	521.5	521.5
17.5°	3030.0	2532.0	1686.8	1004.4	679.1	561.7	514.7	493.0	476.2	464.5	464.5
20°	3261.4	2637.6	1552.7	825.0	573.5	501.4	464.5	439.3	425.9	415.9	412.5
22.5°	3481.0	2723.1	1381.7	677.5	499.7	451.1	417.5	390.7	377.2	372.2	372.2
25°	3709.1	2775.1	1175.4	560.1	456.1	409.1	372.2	350.5	338.7	335.4	333.7
27.5°	3930.4	2805.3	994.3	489.6	415.9	370.6	335.4	318.6	306.9	303.5	305.2
30°	4198.7	2810.3	818.2	439.3	380.6	333.7	301.8	286.7	280.0	276.6	275.0
32.5°	4470.3	2803.6	687.5	409.1	347.1	301.8	275.0	263.2	258.2	253.2	253.2
35°	4775.5	2768.4	585.2	379.0	315.2	275.0	251.5	241.5	234.7	229.7	228.0
37.5°	5154.5	2750.0	526.5	345.4	286.7	249.9	228.0	218.0	213.0	206.2	204.6
40°	5751.4	2832.1	508.1	315.2	258.2	226.4	206.2	194.5	187.8	181.1	179.4
42.5°	6495.9	2976.3	477.9	285.1	233.1	204.6	184.5	171.0	159.3	150.9	147.6
45°	7460.0	3165.7	431.0	253.2	211.3	181.1	162.6	145.9	130.8	124.1	122.4
47.5°	8471.1	3348.6	389.0	228.0	187.8	161.0	140.9	122.4	109.0	104.0	102.3
50°	9091.6	3385.5	362.2	199.5	164.4	139.1	119.0	102.3	93.9	88.9	88.9
52.5°	9374.9	3326.7	325.3	174.4	142.5	122.4	102.3	88.9	83.9	80.5	78.8
55°	9572.8	3236.2	276.6	150.9	122.4	104.0	90.5	80.5	73.8	70.4	68.7
57°	9688.5	3113.8	239.8	132.5	105.6	90.5	80.5	72.1	65.4	58.7	58.7
57.5°	9693.5	3066.9	229.7	130.8	100.6	87.2	78.8	70.4	62.0	55.4	53.6
60°	9544.3	2744.9	184.5	110.6	80.5	73.8	65.4	55.4	43.6	36.9	35.2
62.5°	9064.7	2335.8	152.6	93.9	65.4	57.0	47.0	41.9	30.1	21.8	21.8
65°	8338.7	1894.8	130.8	75.5	53.6	41.9	31.9	30.1	18.5	10.0	8.4
67.5°	7289.0	1475.6	110.6	62.0	45.3	30.1	21.8	20.1	10.0	3.4	0.0
70°	5553.5	1006.1	92.2	50.3	33.5	21.8	15.1	11.7	6.7	1.6	0.0
72.5°	3201.0	553.3	77.1	38.6	25.1	16.8	11.7	6.7	6.7	0.0	0.0
75°	1143.6	238.1	58.7	28.5	20.1	13.4	8.4	3.4	5.0	1.6	0.0
77.5°	363.9	127.5	38.6	21.8	16.8	10.0	6.7	3.4	3.4	1.6	0.0
80°	107.3	67.1	23.5	18.5	11.7	8.4	5.0	1.6	3.4	1.6	0.0
82.5°	58.7	33.5	18.5	13.4	11.7	6.7	5.0	1.6	1.6	1.6	0.0
85°	30.1	20.1	15.1	13.4	11.7	6.7	5.0	1.6	0.0	1.6	1.6
87.5°	16.8	15.1	15.1	13.4	11.7	8.4	5.0	1.6	0.0	0.0	0.0
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)