

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: P647131

Luminaire Tested: **GALN-SA8C-835-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647131  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-835-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26545.3 lumens  
Efficiency: N/A  
Efficacy: 61.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

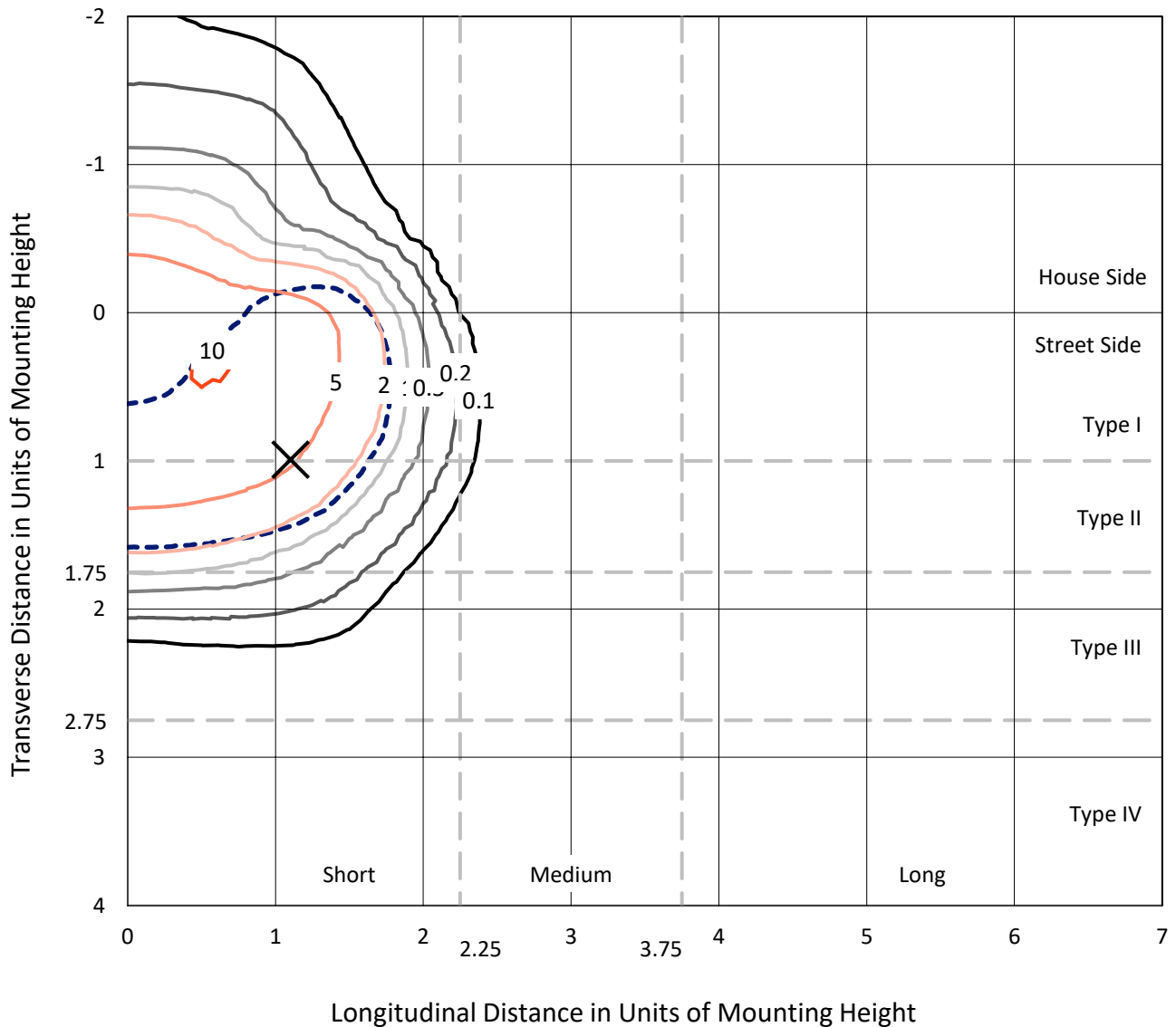
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

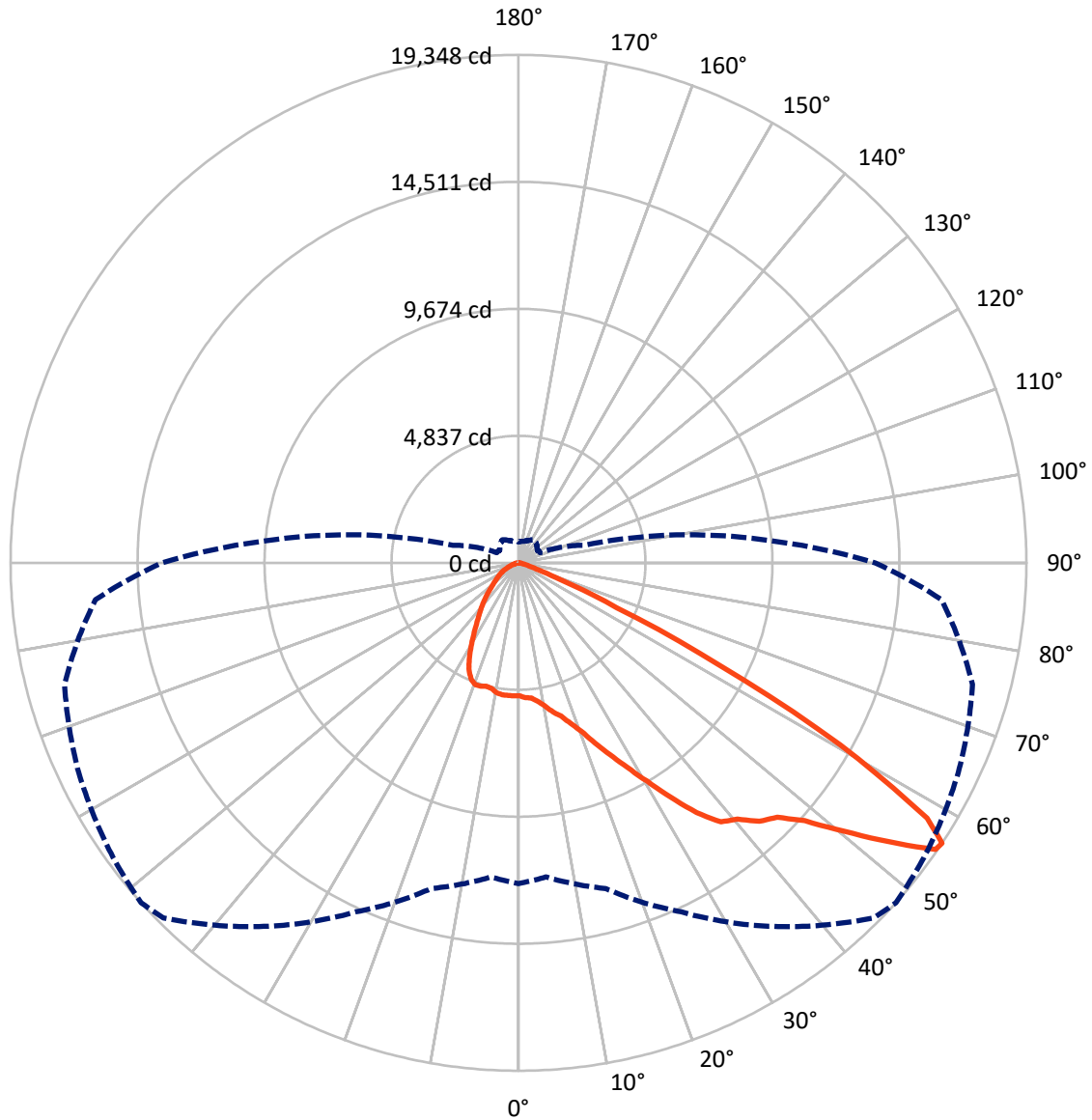
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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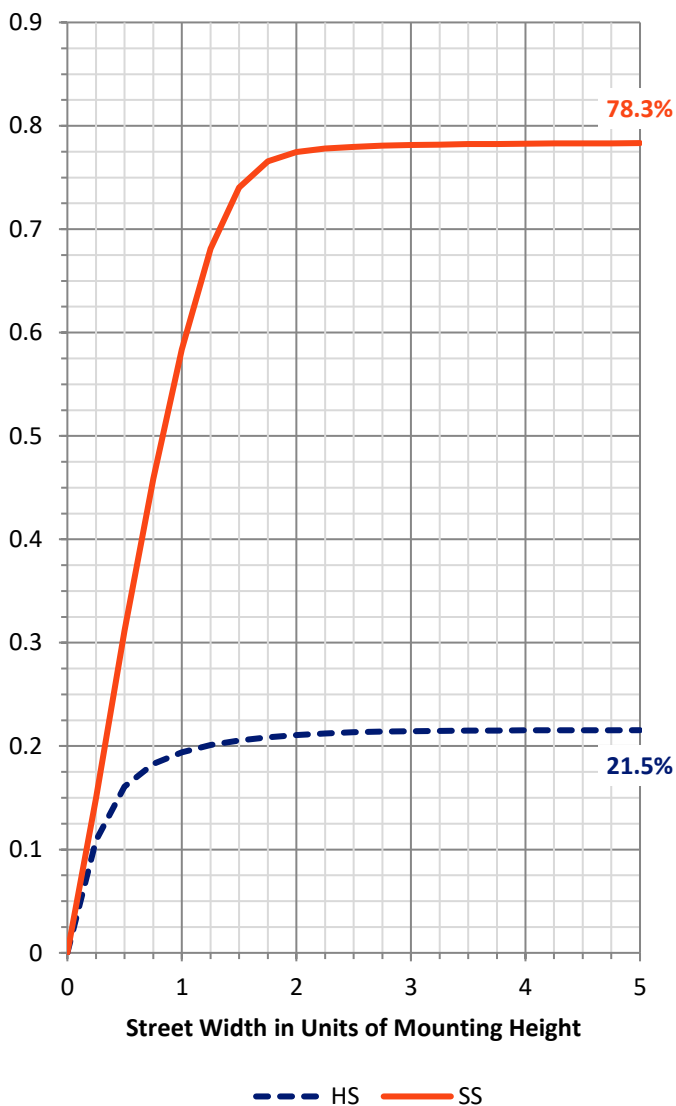
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5773.1	0.0	5773.1
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	20772.2	0.0	20772.2
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	26545.3	0.0	26545.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	493.9	1.9
10°-20°	1578.4	5.9
20°-30°	2862.9	10.8
30°-40°	4497.0	16.9
40°-50°	6560.3	24.7
50°-60°	7903.9	29.8
60°-70°	2314.2	8.7
70°-80°	293.6	1.1
80°-90°	41.2	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°	26545.3	100.0
0°-180°	26545.3	100.0

**Coefficient of Utilization**

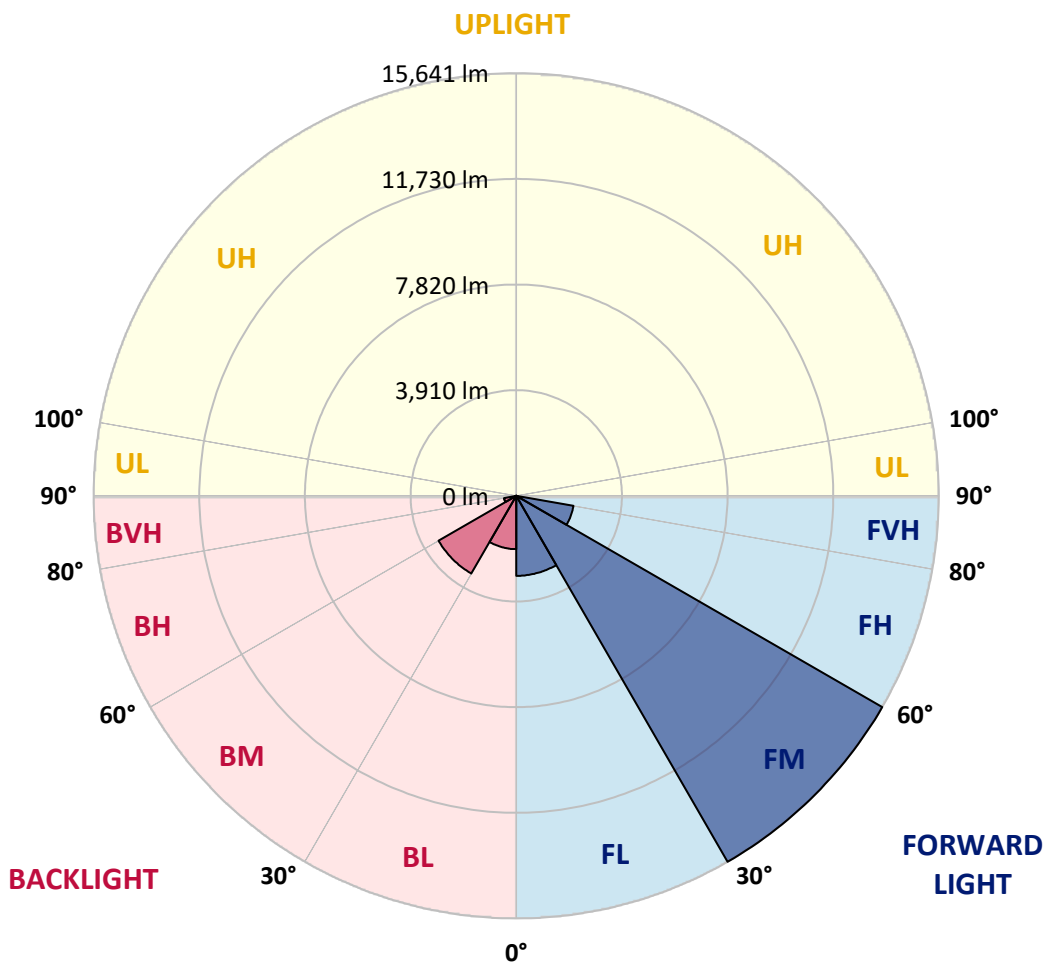


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2961.9	11.2			
FM (30°-60°)	15640.5	58.9			
FH (60°-80°)	2149.0	8.1			G2/5000
FVH (80°-90°)	20.7	0.1			G1/100
BL (0°-30°)	1973.2	7.4	B3/2500		
BM (30°-60°)	3320.7	12.5	B3/5000		
BH (60°-80°)	458.7	1.7	B1/500		G1/500
BVH (80°-90°)	20.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	5070.2	5070.2	5070.2	5070.2	5070.2	5070.2	5070.2	5070.2	5070.2	5070.2	5070.2
2.5°	5162.0	5137.8	5137.8	5099.1	5142.7	5123.3	5137.8	5089.5	5137.8	5065.3	5123.3
5°	5186.1	5191.0	5171.6	5195.8	5195.8	5224.8	5176.5	5220.0	5244.1	5191.0	5166.9
7.5°	5311.8	5321.5	5316.6	5297.3	5336.0	5331.1	5326.4	5292.5	5302.2	5282.8	5253.9
10°	5558.4	5553.5	5577.6	5529.3	5500.3	5534.2	5543.8	5490.6	5452.0	5437.5	5345.6
12.5°	5916.0	5858.0	5824.2	5775.8	5790.3	5742.0	5829.0	5737.1	5717.9	5630.8	5539.0
15°	6206.0	6196.3	6201.1	6123.8	6036.9	6056.2	6056.2	6007.8	5978.8	5872.5	5742.0
17.5°	6800.5	6597.5	6641.0	6544.3	6471.8	6467.0	6423.5	6433.1	6355.8	6133.5	5935.3
20°	7264.5	7177.4	7109.8	6945.5	6834.3	6868.2	6848.8	6800.5	6776.3	6486.3	6206.0
22.5°	7680.1	7709.2	7598.0	7554.5	7399.8	7414.3	7453.0	7409.5	7225.8	6926.2	6510.5
25°	8265.0	8231.1	8081.3	8028.2	7883.2	7936.3	8086.1	8052.3	7936.3	7395.0	6747.3
27.5°	8956.2	8840.1	8869.1	8627.5	8487.3	8637.1	8816.0	8985.2	8656.5	7946.0	7027.7
30°	9444.3	9323.5	9313.8	9304.2	9270.3	9444.3	9652.1	9806.8	9541.0	8497.0	7491.7
32.5°	9685.9	9715.0	9797.1	9768.2	10063.0	10420.6	10638.2	10860.4	10527.0	9396.0	8105.5
35°	10328.8	10145.2	10328.8	10348.1	10652.6	11411.4	11687.0	12218.6	12136.5	10667.1	8854.6
37.5°	10705.8	10691.3	10715.5	10899.1	11194.0	12131.6	12523.1	12934.0	12779.3	11430.8	9787.5
40°	11329.3	11368.0	11363.1	11503.3	11827.1	12673.0	12832.5	13166.0	13180.5	12489.3	11160.2
42.5°	12329.8	12175.2	12073.6	12218.6	12673.0	13141.8	13460.8	13393.1	13871.6	13775.0	12924.3
45°	13228.8	13320.6	13170.8	13412.5	13576.8	13828.2	13818.5	13963.5	14572.5	15031.6	14253.5
47.5°	14069.8	14127.8	14200.3	14364.6	14722.3	14761.0	14678.8	14615.9	15457.0	15930.6	15283.0
50°	14572.5	14625.7	14964.0	15258.8	15925.8	16012.8	16061.1	15901.6	16472.0	16525.1	16254.5
52.5°	14437.1	14495.1	14968.8	15940.3	17003.6	17801.1	17656.1	17385.5	17351.7	17559.5	17153.5
55°	13238.5	13185.3	13837.8	15350.6	17342.0	19255.9	19275.3	18990.1	18444.0	18303.8	17018.1
56°	12218.6	12010.8	12842.1	14669.1	16907.0	19130.3	19347.8	19043.3	18530.9	17902.7	16181.9
57.5°	10009.8	10208.0	11034.5	12547.3	15403.8	18226.4	18352.1	18279.6	17893.0	16839.3	14239.0
60°	5519.7	5867.6	6597.5	8448.6	10966.8	13987.7	14089.1	14678.8	14751.3	12895.3	9797.1
62.5°	2344.1	2305.5	3064.3	4427.3	6244.7	8443.8	8632.3	9236.5	9347.6	7433.6	4915.5
65°	952.1	1005.3	1387.2	2228.2	3301.1	3847.3	4113.2	4311.4	4678.7	3069.1	1812.5
67.5°	628.4	623.5	816.8	1271.2	1778.7	1715.9	1715.9	1812.5	1677.2	1251.9	783.0
70°	449.5	464.0	584.8	879.7	1106.8	821.7	787.9	754.0	855.5	826.5	633.1
72.5°	294.8	314.1	391.5	526.8	575.2	449.5	449.5	541.4	705.6	667.0	517.2
75°	193.3	198.2	241.6	304.5	285.2	232.0	256.2	362.5	512.3	493.0	367.3
77.5°	130.5	135.3	164.4	198.2	159.5	130.5	140.2	183.7	251.3	251.3	193.3
80°	48.3	53.2	67.7	62.8	72.5	91.8	101.5	125.7	149.9	149.9	130.5
82.5°	0.0	4.9	14.5	33.8	53.2	72.5	82.1	96.7	111.2	125.7	120.8
85°	0.0	4.9	14.5	24.2	38.7	43.5	48.3	33.8	29.0	29.0	24.2
87.5°	0.0	0.0	4.9	4.9	4.9	4.9	4.9	4.9	9.6	4.9	4.9
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°	5070.2	5070.2	5070.2	5070.2	5070.2	5070.2	5070.2	5070.2	5070.2	5070.2	5070.2
2.5°	5070.2	5065.3	5065.3	5050.8	5079.8	5065.3	5075.0	5070.2	5007.3	5055.7	5021.8
5°	5123.3	5157.2	5104.0	5094.4	5055.7	5070.2	5070.2	5021.8	5065.3	5060.5	5050.8
7.5°	5258.6	5200.7	5142.7	5084.6	5075.0	5060.5	5007.3	4988.0	5021.8	4983.2	5041.2
10°	5316.6	5326.4	5239.3	5162.0	5089.5	4988.0	4915.5	4872.0	4818.8	4876.8	4910.7
12.5°	5582.5	5485.9	5336.0	5215.2	4968.7	4867.1	4794.6	4775.4	4867.1	4886.5	4852.6
15°	5674.3	5659.8	5466.5	5195.8	4939.6	4818.8	4833.3	4794.6	4804.3	4756.0	4765.7
17.5°	5862.8	5698.5	5471.3	5133.0	4934.9	4905.8	4818.8	4664.2	4577.2	4538.5	4572.3
20°	6070.7	5911.2	5582.5	5157.2	4978.3	4901.0	4615.9	4427.3	4248.5	4151.9	4156.6
22.5°	6254.3	6056.2	5534.2	5166.9	5017.0	4698.0	4354.8	3982.7	3760.4	3610.5	3615.3
25°	6476.7	6196.3	5553.5	5186.1	4915.5	4374.2	3881.2	3518.6	3252.8	3151.3	3185.2
27.5°	6602.3	6283.3	5659.8	5229.7	4649.7	3915.0	3383.3	3045.0	2890.4	2842.0	2837.2
30°	6979.3	6476.7	5790.3	5142.7	4205.0	3422.0	2929.0	2721.2	2571.3	2527.8	2537.5
32.5°	7540.0	6829.5	5959.5	4915.5	3750.6	2982.1	2634.2	2479.5	2339.3	2257.2	2247.5
35°	8008.8	7433.6	6138.3	4562.6	3223.8	2643.8	2426.4	2233.0	2020.3	1928.5	1904.3
37.5°	8902.9	8115.2	6099.6	4031.0	2721.2	2392.5	2204.0	1967.1	1783.5	1657.8	1643.4
40°	10092.0	8912.7	5911.2	3383.3	2349.0	2170.2	1967.1	1740.0	1512.8	1406.5	1396.8
42.5°	11537.1	9889.0	5568.0	2726.0	1976.8	1947.8	1764.2	1503.1	1300.2	1222.8	1227.7
45°	12711.6	10725.1	5220.0	2189.5	1701.3	1730.4	1570.9	1324.4	1184.1	1121.3	1121.3
47.5°	13755.7	11290.6	4843.0	1807.6	1445.2	1512.8	1372.7	1227.7	1106.8	1058.5	1048.8
50°	14761.0	11865.8	4466.0	1464.5	1232.5	1300.2	1285.7	1169.6	1073.0	1015.0	1019.9
52.5°	15389.3	11957.7	3987.5	1198.7	1077.8	1155.2	1203.5	1097.1	990.8	957.0	947.4
55°	14620.8	10773.5	3093.3	986.0	913.5	1015.0	1106.8	986.0	903.8	845.8	841.0
56°	13586.5	9632.8	2585.9	908.7	865.1	976.3	1073.0	942.5	850.7	816.8	792.6
57.5°	11503.3	7883.2	1909.2	807.2	802.3	908.7	1019.9	899.0	792.6	763.7	763.7
60°	7172.7	4437.0	1155.2	676.7	696.0	807.2	918.3	802.3	705.6	705.6	720.2
62.5°	3267.3	1846.3	700.9	575.2	599.3	696.0	816.8	725.0	671.8	725.0	734.7
65°	1111.7	797.5	507.5	459.2	473.6	575.2	700.9	734.7	729.8	763.7	783.0
67.5°	623.5	512.3	425.3	381.9	372.2	425.3	575.2	734.7	705.6	691.2	700.9
70°	526.8	435.0	377.0	338.3	323.8	343.2	444.7	555.9	497.8	483.3	473.6
72.5°	425.3	362.5	328.7	304.5	261.0	222.4	203.0	212.7	236.9	251.3	275.5
75°	299.7	275.5	275.5	246.5	188.5	140.2	111.2	91.8	62.8	43.5	48.3
77.5°	169.1	169.1	174.0	149.9	120.8	91.8	67.7	48.3	24.2	9.6	4.9
80°	116.0	125.7	135.3	120.8	101.5	82.1	58.0	33.8	14.5	0.0	0.0
82.5°	116.0	130.5	140.2	120.8	101.5	77.4	58.0	33.8	14.5	4.9	0.0
85°	24.2	29.0	33.8	38.7	58.0	58.0	43.5	29.0	14.5	4.9	0.0
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	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)