

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: P647637

Luminaire Tested: **GALN-SA8D-835-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647637  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-835-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48947.7 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

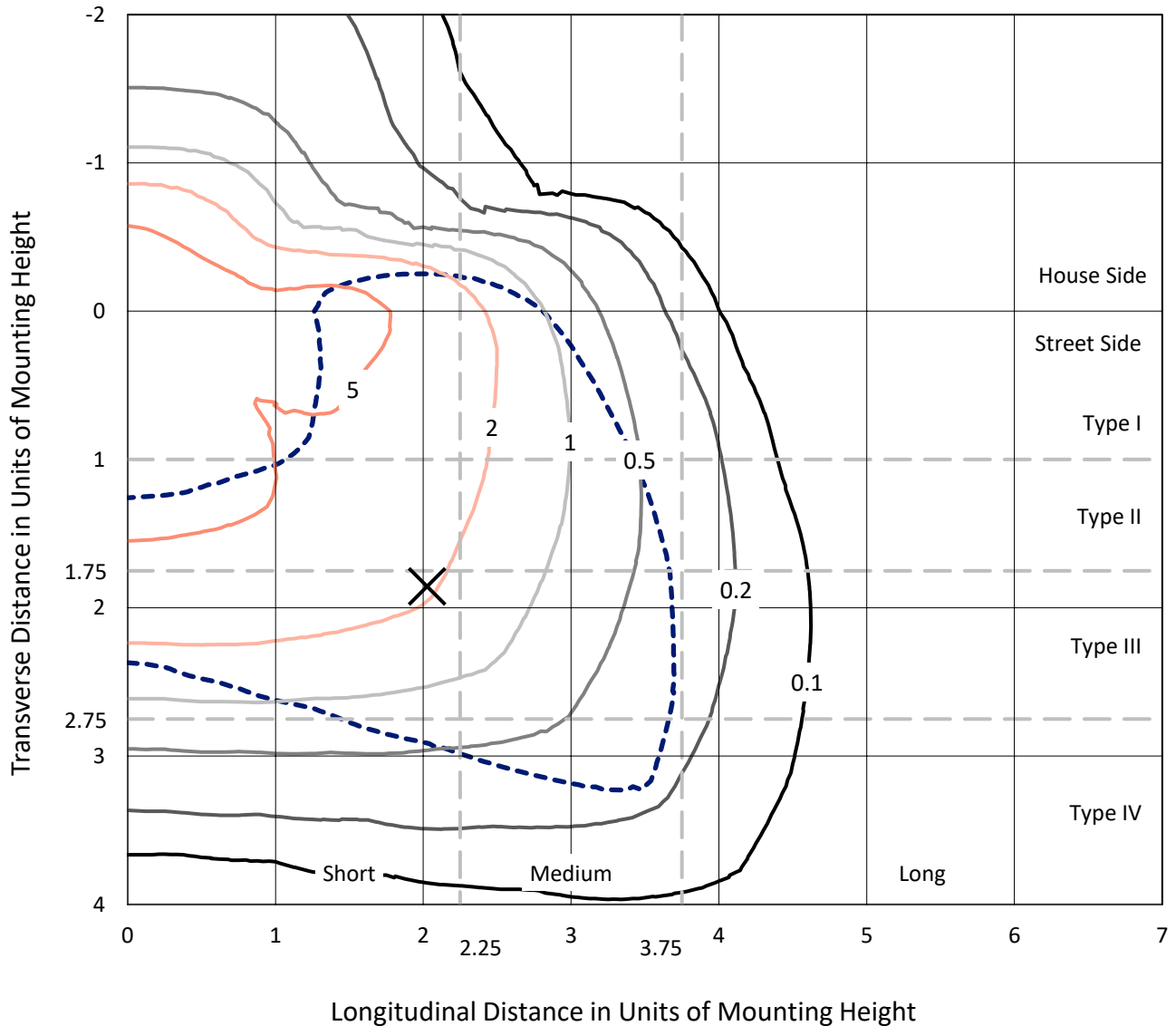
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

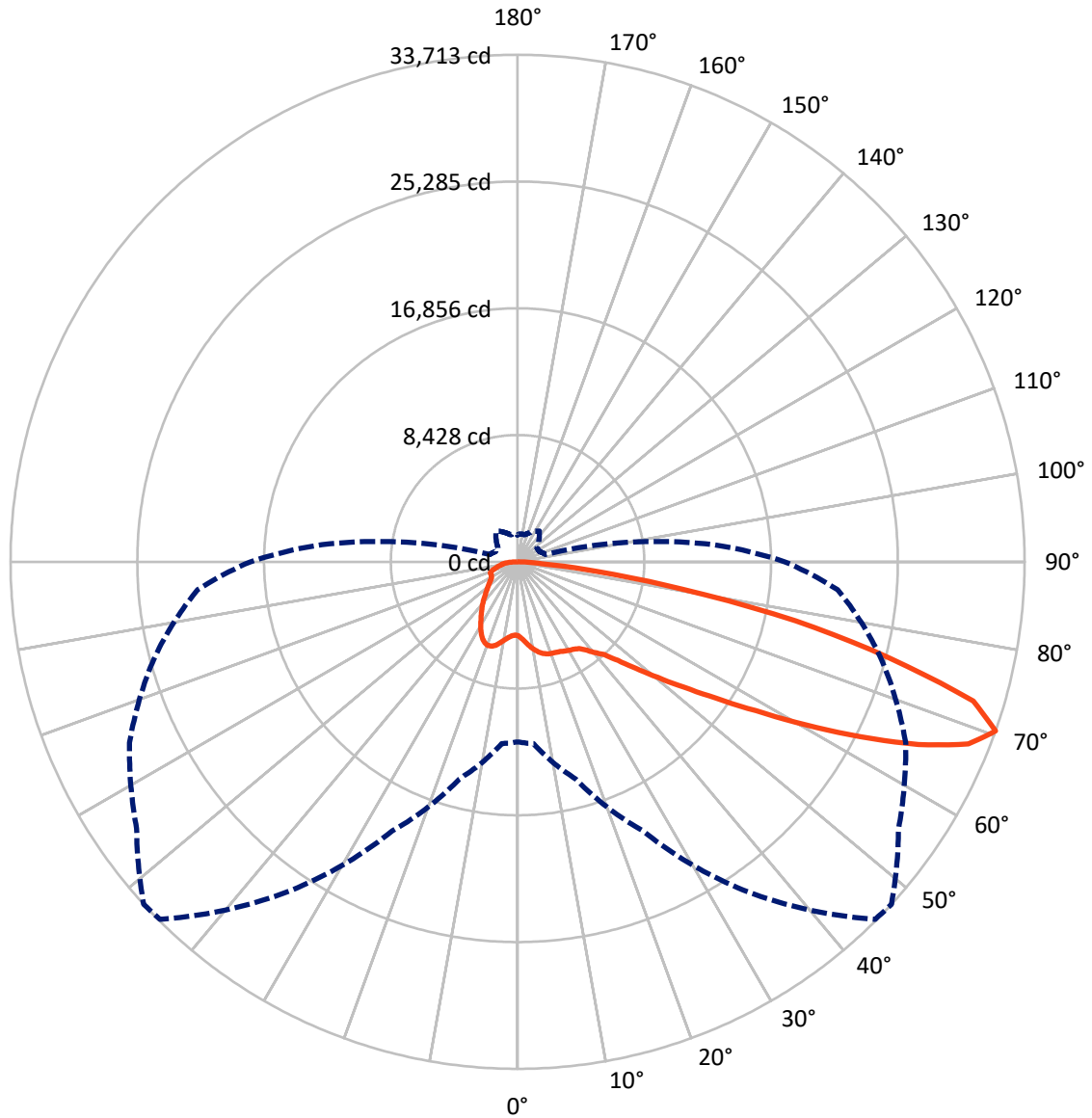
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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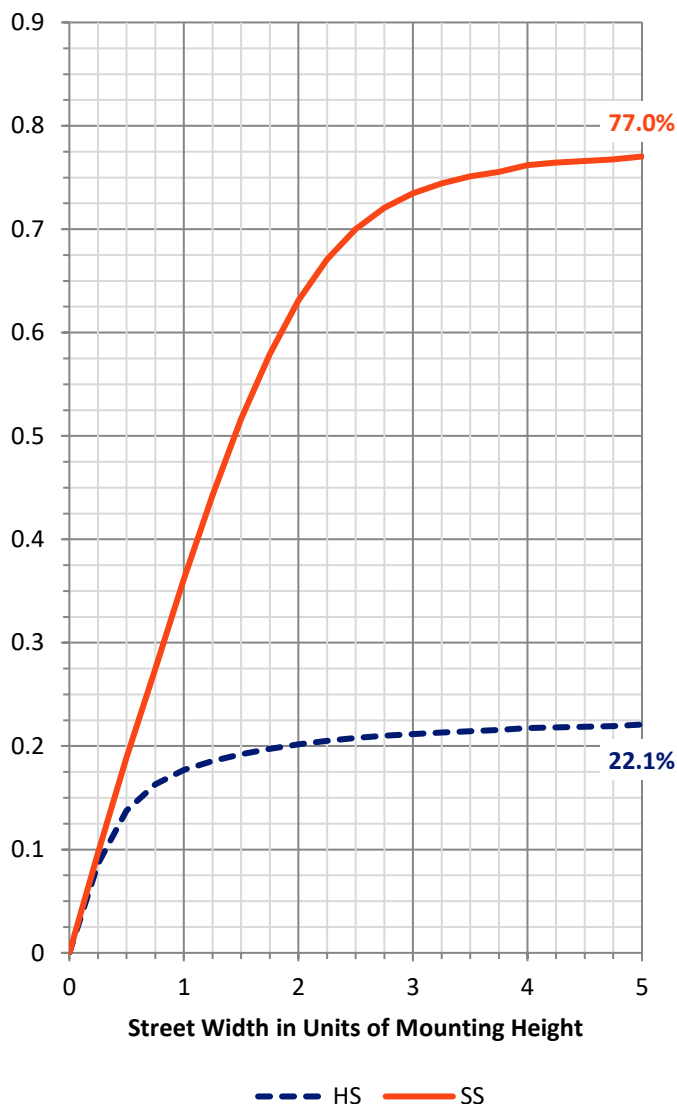
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11082.7	0.0	11082.7
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	37865.0	0.0	37865.0
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	48947.7	0.0	48947.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	506.5	1.0
10°-20°	1693.3	3.5
20°-30°	2815.9	5.8
30°-40°	3991.1	8.2
40°-50°	5891.8	12.0
50°-60°	10204.8	20.8
60°-70°	14414.6	29.4
70°-80°	8286.3	16.9
80°-90°	1143.3	2.3
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°	48947.7	100.0
0°-180°	48947.7	100.0

**Coefficient of Utilization**

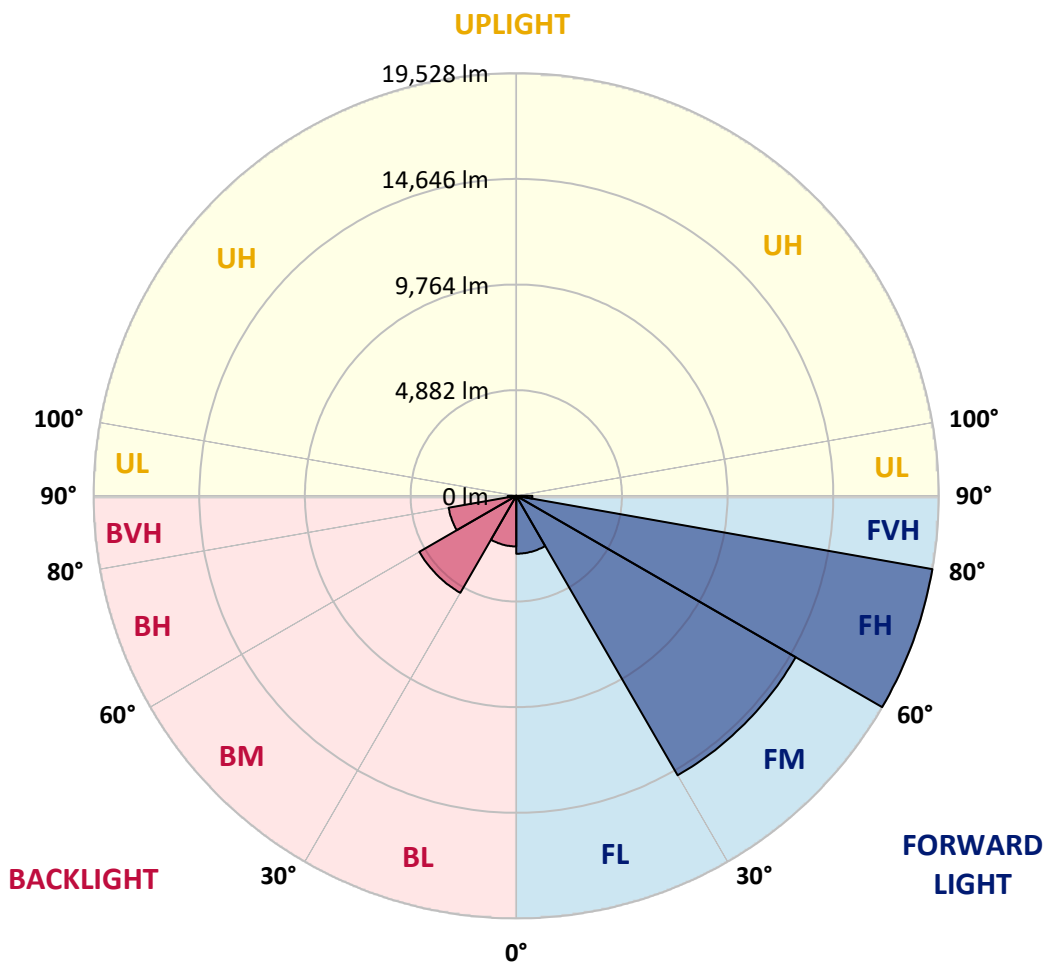


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2676.6	5.5			
FM (30°-60°)	14913.4	30.5			
FH (60°-80°)	19528.1	39.9			G5
FVH (80°-90°)	746.8	1.5			G4/750
BL (0°-30°)	2339.1	4.8	B3/2500		
BM (30°-60°)	5174.3	10.6	B4/8500		
BH (60°-80°)	3172.8	6.5	B4/5000		G4/5000
BVH (80°-90°)	396.5	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8
2.5°	5230.7	5212.4	5209.8	5170.5	5149.5	5110.2	5094.5	5057.8	5013.3	4968.8	4926.9
5°	5641.9	5641.9	5623.6	5568.5	5482.2	5393.1	5353.8	5283.1	5157.4	5055.2	4968.8
7.5°	6063.6	6068.9	6032.2	5951.0	5827.9	5683.8	5647.2	5542.4	5364.3	5214.9	5086.6
10°	6427.7	6427.7	6377.9	6267.9	6113.4	5956.2	5919.6	5801.7	5602.6	5416.6	5249.0
12.5°	6705.4	6705.4	6639.8	6495.8	6328.1	6186.7	6144.8	6032.2	5846.2	5639.3	5427.1
15°	6886.1	6872.9	6799.7	6637.3	6474.9	6351.8	6323.0	6228.6	6058.4	5848.9	5610.5
17.5°	6893.9	6888.7	6818.0	6681.7	6540.3	6456.5	6438.1	6375.3	6241.8	6042.6	5791.2
20°	6742.0	6752.5	6705.4	6608.4	6540.3	6503.7	6495.8	6474.9	6380.6	6194.5	5943.1
22.5°	6579.6	6597.9	6553.4	6501.0	6495.8	6532.5	6537.7	6543.0	6482.7	6302.0	6071.5
25°	6540.3	6553.4	6508.9	6461.8	6490.5	6587.5	6608.4	6629.3	6582.2	6430.3	6223.4
27.5°	6739.4	6728.9	6642.5	6540.3	6558.6	6689.6	6718.5	6742.0	6718.5	6587.5	6412.0
30°	7302.6	7268.5	7095.6	6797.0	6702.7	6794.4	6823.2	6888.7	6888.7	6791.7	6616.3
32.5°	8245.5	8180.0	7863.0	7276.3	6949.0	6893.9	6922.7	7030.2	7085.1	7009.2	6818.0
35°	9390.1	9322.0	8868.9	8080.5	7399.4	7093.0	7085.1	7205.6	7352.3	7182.1	6933.2
37.5°	10540.0	10469.3	9924.4	9039.1	8056.9	7512.1	7465.0	7506.9	7569.7	7258.0	7093.0
40°	11689.8	11606.0	11129.3	10110.4	8861.0	8067.3	7944.2	7755.7	7729.5	7506.9	7402.1
42.5°	12829.2	12753.3	12512.3	11312.6	9824.9	8609.6	8420.9	8096.1	8195.7	8062.2	7970.5
45°	13979.1	13984.3	13727.6	12661.6	10987.8	9610.2	9356.1	8847.9	9083.7	9033.9	9086.2
47.5°	14998.0	14984.9	14893.2	13971.2	12431.1	10898.8	10571.4	9982.1	10385.4	10568.8	10969.5
50°	15985.4	15977.6	15982.8	15456.3	14107.4	12431.1	12069.6	11451.5	12360.4	12996.9	13714.5
52.5°	17399.8	17444.4	17127.4	16988.6	16145.2	14241.0	13842.9	13203.7	14694.1	15697.3	17098.6
55°	18819.5	18782.8	18534.0	18678.1	18277.3	16383.6	15967.1	15458.9	17292.5	18389.9	20495.8
57.5°	19655.0	19668.1	19922.2	20626.8	20909.7	19055.2	18678.1	18285.2	20212.9	20990.9	23518.4
60°	20406.8	20467.0	21197.8	22528.4	23295.8	22337.2	22001.9	21619.5	22892.5	23201.5	26143.0
62.5°	20642.5	20828.5	22104.1	24094.7	25621.7	26040.9	25624.4	24780.9	25443.7	25323.2	27921.5
65°	19466.5	19720.5	22007.2	24681.4	27698.9	29555.9	29291.3	27725.0	27617.7	26892.1	28212.2
67.5°	16370.5	16624.5	19560.7	23450.4	28558.0	32599.5	32334.9	29872.8	28937.7	27038.8	26012.0
70°	11977.9	12137.8	14945.6	19744.0	26831.8	33621.0	33712.7	30920.5	28466.3	25045.5	21357.6
72.5°	6901.8	7255.4	9222.5	13890.0	21920.7	31038.4	31674.9	28741.3	25485.6	20894.0	14932.5
75°	2967.6	2975.5	4264.1	7661.3	14846.1	24948.6	25564.1	23824.9	20013.9	14447.9	7973.1
77.5°	1411.8	1438.0	1875.4	3420.8	8172.2	17237.4	18898.1	16831.4	12800.4	6941.1	3012.2
80°	916.7	935.1	1147.3	1697.3	4007.5	9995.2	11152.9	9709.7	5647.2	2480.5	1299.2
82.5°	555.3	560.5	767.4	1037.2	2205.4	4526.1	5335.4	4214.4	2409.8	1485.1	764.8
85°	337.9	340.5	466.2	641.7	1338.5	1563.7	1605.6	1592.5	1414.4	971.8	408.6
87.5°	162.4	167.6	241.0	303.8	526.5	484.6	458.4	531.7	667.9	523.8	175.5
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°	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8	4913.8
2.5°	4908.5	4900.6	4882.3	4874.5	4869.2	4871.8	4869.2	4869.2	4871.8	4871.8	4871.8
5°	4932.1	4919.0	4890.1	4890.1	4905.9	4942.5	4976.6	5002.8	5031.6	5029.0	5029.0
7.5°	5034.2	5010.7	4976.6	4987.1	5026.4	5084.0	5144.2	5201.9	5259.5	5264.7	5262.2
10°	5183.5	5160.0	5123.3	5136.4	5199.3	5285.7	5361.7	5445.5	5508.3	5526.6	5521.4
12.5°	5353.8	5306.6	5275.2	5311.9	5411.4	5526.6	5600.0	5662.9	5707.4	5733.6	5723.1
15°	5526.6	5482.2	5445.5	5521.4	5641.9	5749.3	5786.0	5796.5	5804.3	5830.5	5825.3
17.5°	5694.3	5634.1	5621.0	5720.5	5835.8	5882.9	5861.9	5817.4	5783.4	5804.3	5801.7
20°	5843.6	5796.5	5791.2	5890.7	5935.3	5890.7	5801.7	5723.1	5662.9	5668.1	5665.5
22.5°	5985.0	5948.4	5953.6	5995.5	5924.8	5772.9	5626.2	5518.8	5453.4	5466.4	5474.3
25°	6142.2	6105.5	6118.6	6050.6	5817.4	5552.9	5340.7	5249.0	5222.8	5249.0	5267.4
27.5°	6346.5	6323.0	6315.1	6053.1	5626.2	5228.1	4987.1	4953.0	4976.6	5034.2	5063.0
30°	6566.6	6566.6	6524.6	6008.6	5364.3	4837.8	4628.2	4633.5	4714.7	4795.9	4824.7
32.5°	6778.7	6823.2	6692.2	5888.2	5026.4	4458.0	4298.2	4303.4	4374.2	4473.7	4499.9
35°	6954.1	7082.5	6836.3	5668.1	4628.2	4138.5	4018.0	3947.3	3949.8	4025.8	4046.8
37.5°	7195.1	7433.5	6920.2	5340.7	4203.9	3866.1	3729.8	3606.7	3525.5	3494.1	3494.1
40°	7614.2	7965.2	6941.1	4856.2	3803.2	3606.7	3412.9	3266.2	3109.1	2967.6	2941.4
42.5°	8324.1	8766.7	6899.2	4298.2	3441.8	3321.3	3132.6	2951.9	2734.5	2535.4	2519.8
45°	9581.3	9809.2	6786.6	3719.4	3119.6	3046.2	2862.9	2666.4	2435.9	2257.8	2244.7
47.5°	11595.5	11273.3	6637.3	3206.0	2826.2	2805.3	2663.8	2435.9	2205.4	2082.3	2069.2
50°	14536.9	13578.3	6616.3	2834.1	2590.5	2601.0	2485.7	2276.2	2074.5	1972.3	1956.6
52.5°	18078.2	16362.6	6755.1	2572.2	2383.5	2422.8	2365.2	2171.4	1993.3	1906.8	1891.1
55°	21514.7	18866.6	6839.0	2367.8	2189.7	2263.0	2270.9	2108.5	1946.1	1859.7	1849.2
57.5°	24304.2	20752.5	6467.0	2181.8	2022.1	2134.7	2192.3	2071.8	1922.6	1857.0	1846.6
60°	26245.1	21643.1	5408.8	2016.9	1899.0	2032.6	2163.5	2074.5	1980.2	1988.0	1993.3
62.5°	26863.2	21247.6	4057.3	1893.8	1815.2	1998.5	2210.6	2181.8	2085.0	2145.2	2155.7
65°	25839.2	19613.1	2941.4	1796.8	1741.8	2022.1	2352.1	2260.4	2048.2	2092.8	2092.8
67.5°	22410.5	16896.9	2289.3	1707.8	1658.0	2066.6	2493.5	2252.6	1961.8	2014.2	1967.1
70°	17777.0	13070.1	1906.8	1608.2	1569.0	2001.1	2506.6	2171.4	1859.7	1870.2	1781.1
72.5°	11797.2	8593.8	1639.7	1513.9	1432.7	1799.4	2399.3	2066.6	1760.2	1699.9	1610.9
75°	5780.7	4285.1	1430.1	1396.1	1254.6	1566.3	2252.6	1967.1	1652.8	1558.5	1508.7
77.5°	2239.5	1823.0	1220.6	1246.8	1092.2	1380.4	2058.7	1825.6	1511.3	1383.0	1343.7
80°	1087.0	1034.6	1000.6	1039.8	898.4	1176.1	1880.6	1702.6	1380.4	1238.9	1181.3
82.5°	675.8	639.1	767.4	809.4	691.5	1073.9	1783.8	1597.8	1215.4	1026.7	979.6
85°	343.1	366.7	513.4	552.6	495.0	853.9	1469.4	1199.6	877.4	728.2	733.4
87.5°	131.0	175.5	269.8	290.7	264.6	450.5	809.4	699.4	563.1	382.4	353.6
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)