

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: P533472

Luminaire Tested: **GALN-SA8D-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-827-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40087 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

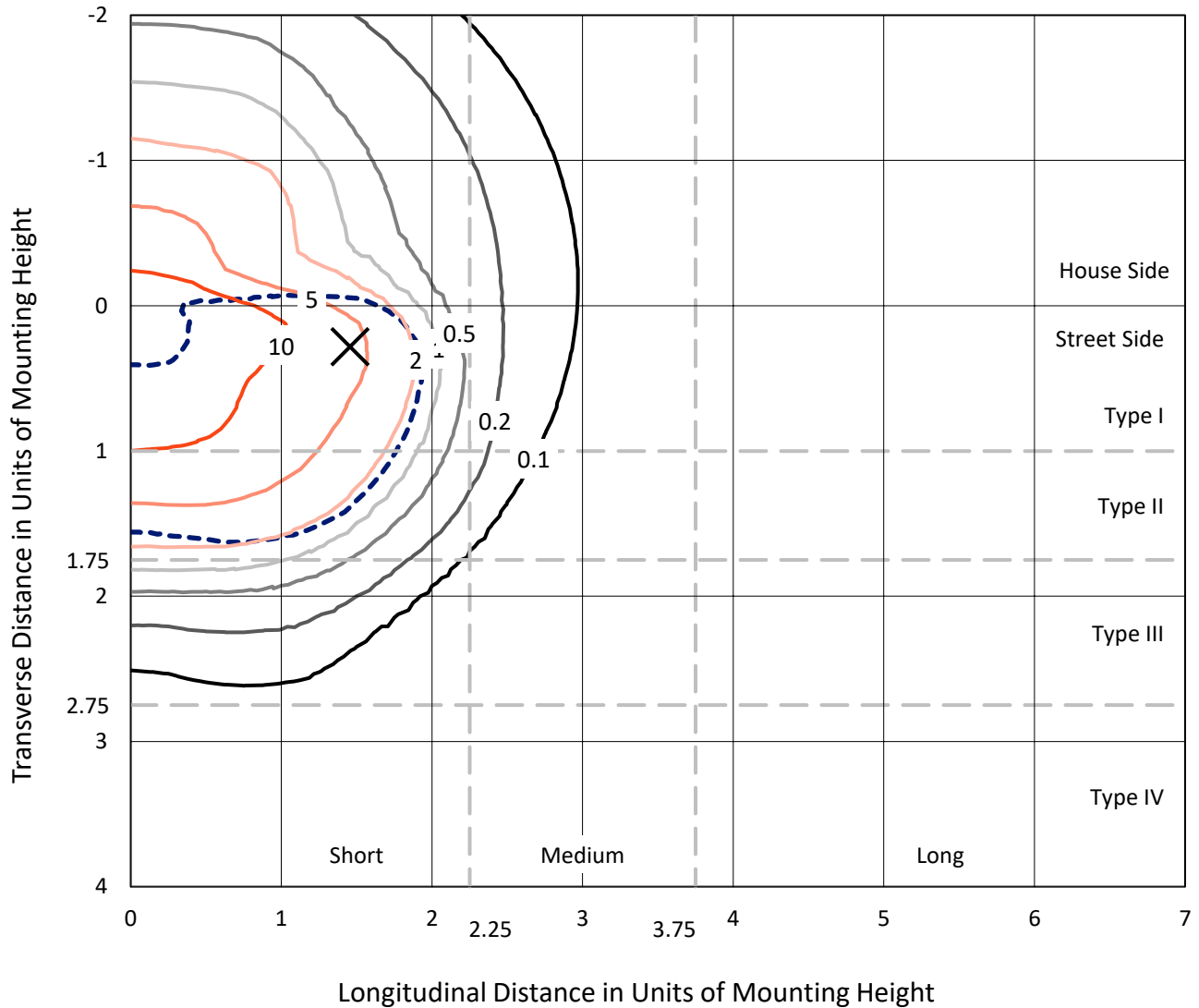
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

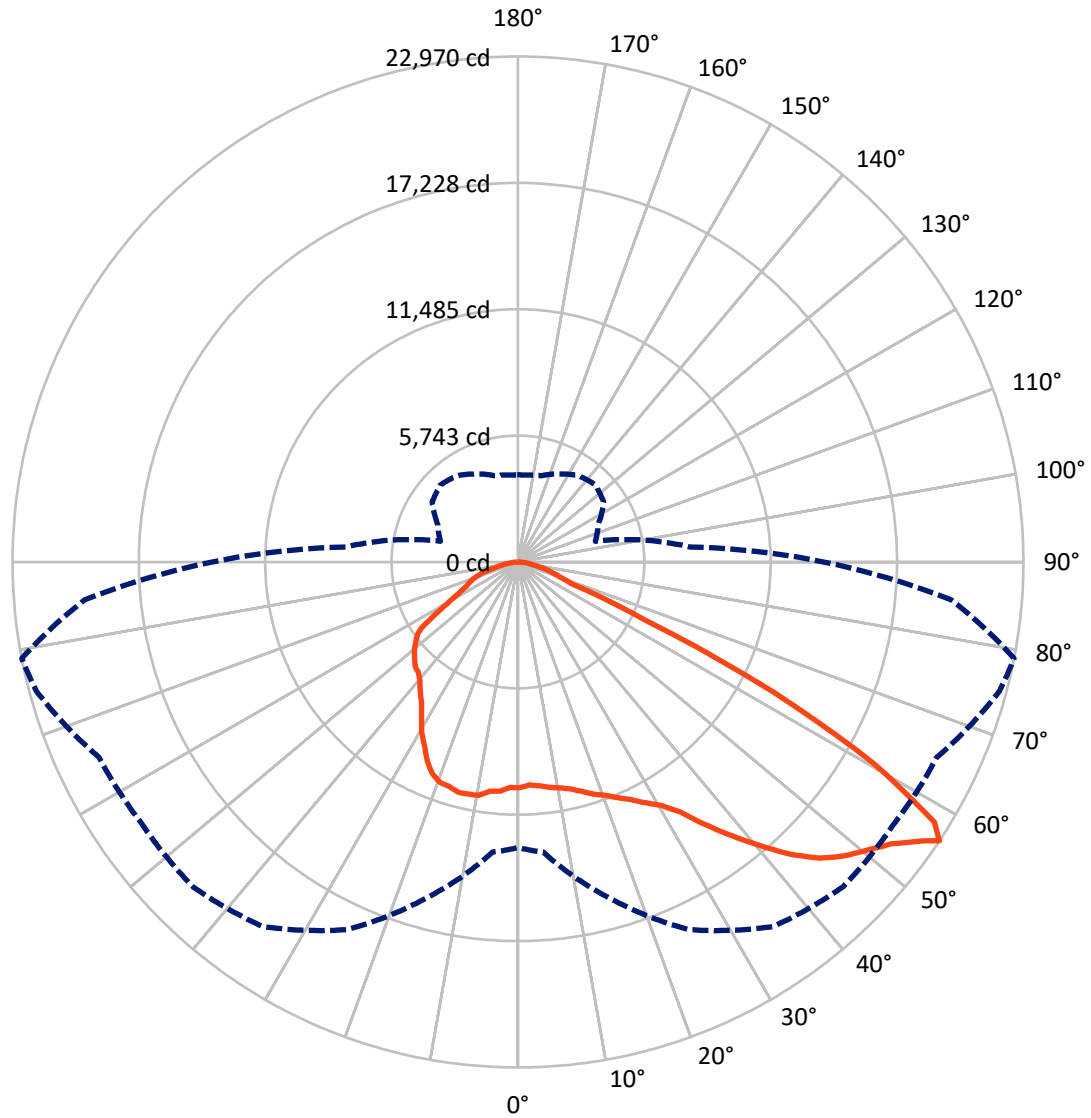
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11838.6	0.0	11838.6
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	28248.4	0.0	28248.4
	% Fixture	70.5	0.0	70.5
Total	Lumens	40087.0	0.0	40087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	932.5	2.3
10°-20°	2552.1	6.4
20°-30°	4366.1	10.9
30°-40°	6691.6	16.7
40°-50°	9043.6	22.6
50°-60°	10386.9	25.9
60°-70°	4734.7	11.8
70°-80°	1167.3	2.9
80°-90°	212.2	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°	40087.0	100.0
0°-180°	40087.0	100.0

Coefficient of Utilization

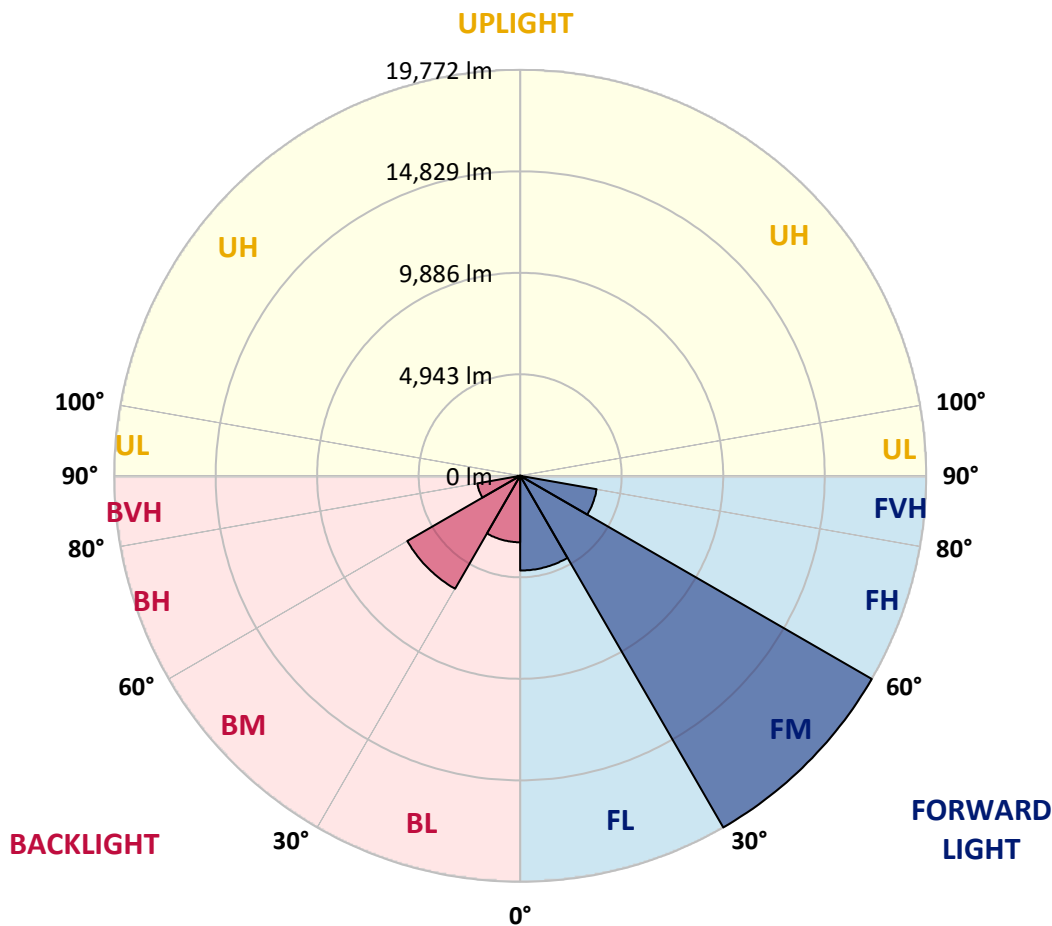


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4612.3	11.5			
FM (30°-60°)	19772.1	49.3			
FH (60°-80°)	3779.3	9.4			G2/5000
FVH (80°-90°)	84.7	0.2			G1/100
BL (0°-30°)	3238.4	8.1	B4/5000		
BM (30°-60°)	6350.0	15.8	B4/8500		
BH (60°-80°)	2122.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	127.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	10256.7	10256.7	10256.7	10256.7	10256.7	10256.7	10256.7	10256.7	10256.7	10256.7	10256.7
2.5°	9757.3	9732.4	9792.3	9837.2	9892.1	9962.1	9997.0	10017.0	10191.8	10146.8	10281.6
5°	9547.6	9482.7	9527.6	9562.6	9657.5	9742.3	9837.2	9987.0	10146.8	10216.7	10381.5
7.5°	9362.8	9327.9	9317.9	9342.9	9472.7	9582.6	9747.3	9967.1	10226.7	10341.6	10436.4
10°	9058.2	9008.3	9083.2	9248.0	9282.9	9512.6	9702.4	10017.0	10241.7	10441.4	10721.1
12.5°	8923.4	8873.5	8888.5	8983.3	9228.0	9447.7	9672.4	10027.0	10501.4	10581.3	10955.8
15°	9138.1	9088.2	9103.2	9078.2	9312.9	9427.8	9782.3	10226.7	10681.1	10815.9	11215.4
17.5°	9627.5	9632.5	9567.6	9512.6	9457.7	9702.4	9947.1	10346.6	10751.0	11090.6	11390.2
20°	10561.3	10396.5	10266.7	9957.1	9872.2	9977.0	10286.6	10671.1	11035.7	11315.3	11654.9
22.5°	11280.3	11295.3	11110.6	10601.2	10416.5	10461.4	10726.1	11040.7	11440.1	11639.9	12029.4
25°	12324.0	12219.1	12019.4	11614.9	11200.4	11235.4	11430.2	11714.8	11824.6	11964.5	12388.9
27.5°	13277.8	13307.7	12913.2	12533.7	12019.4	11919.5	12269.1	12319.0	12134.2	12398.9	12543.7
30°	14246.5	14221.5	13961.9	13517.4	13013.1	13033.1	13187.9	12943.2	12688.5	12833.3	12933.2
32.5°	15250.2	14965.6	14955.6	14556.1	14171.6	13986.8	13797.1	13916.9	13522.4	13552.4	13457.5
35°	16054.1	16094.1	15864.4	15579.8	15390.0	15065.4	14546.1	14760.8	14685.9	14651.0	14241.5
37.5°	16638.4	16483.6	16598.4	16503.6	16323.8	15919.3	15380.0	15584.8	15619.7	15789.5	15315.1
40°	17117.8	17052.8	17357.5	17407.4	17282.5	16408.7	15439.9	16049.2	16573.5	16943.0	16378.7
42.5°	17347.5	17487.3	17806.9	18191.4	17911.7	16977.9	15749.5	16403.7	17572.2	18156.4	17387.4
45°	17657.1	17477.3	17951.7	18655.8	18660.8	17457.3	16049.2	16883.1	18351.2	19200.1	18076.5
47.5°	17342.5	17432.4	17921.7	18815.6	19045.3	17961.7	16858.1	17562.2	19210.0	19964.1	18715.7
50°	16638.4	16818.2	17712.0	18640.8	19334.9	18496.0	17786.9	18296.2	20004.0	20578.3	18820.6
52.5°	15904.3	16004.2	17402.4	18775.6	19464.7	19185.1	19030.3	19309.9	20972.8	21272.4	18950.4
55°	13906.9	14381.3	16378.7	18715.7	20098.9	20428.5	20308.6	20718.1	22071.3	22370.9	19659.5
56°	12983.1	13232.8	15764.5	18436.1	20223.7	20882.9	20822.9	21007.7	22655.6	22970.2	19769.3
57.5°	11275.4	11295.3	13442.5	17197.7	19754.3	21017.7	20957.8	21102.6	22540.7	22326.0	18805.6
60°	7055.8	7365.4	9148.1	13227.8	16798.2	19499.7	19839.2	18675.7	19005.3	18550.9	14631.0
62.5°	3655.3	3610.3	4793.8	7735.0	11150.5	13961.9	14276.5	14221.5	13712.2	13048.0	9557.6
65°	1822.6	1832.6	2506.7	3830.0	5712.6	7310.5	8189.4	8284.2	6931.0	6376.7	4534.1
67.5°	1323.3	1373.2	1802.7	2342.0	2691.5	3011.1	3690.2	3620.3	2741.4	2606.6	2416.9
70°	1028.7	1073.6	1463.1	1787.7	1622.9	1622.9	1767.7	1827.6	1952.5	2007.4	2072.3
72.5°	749.0	784.0	1118.5	1233.4	1063.6	1143.5	1323.3	1463.1	1592.9	1612.9	1687.8
75°	514.3	544.3	734.0	679.1	639.2	789.0	968.7	1098.6	1193.4	1243.4	1288.3
77.5°	334.6	344.6	419.5	354.5	409.5	509.3	629.2	739.0	833.9	873.9	883.9
80°	149.8	164.8	179.8	224.7	284.6	364.5	449.4	539.3	599.2	614.2	644.2
82.5°	84.9	84.9	109.9	159.8	209.7	264.7	324.6	389.5	459.4	474.4	469.4
85°	44.9	44.9	64.9	94.9	129.8	154.8	149.8	154.8	164.8	189.8	184.8
87.5°	15.0	15.0	20.0	20.0	25.0	30.0	25.0	35.0	44.9	44.9	44.9
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°	10256.7	10256.7	10256.7	10256.7	10256.7	10256.7	10256.7	10256.7	10256.7	10256.7	10256.7
2.5°	10241.7	10286.6	10226.7	10356.5	10356.5	10331.6	10206.7	10246.7	10276.6	10276.6	10301.6
5°	10436.4	10421.5	10461.4	10306.6	10211.7	10176.8	9972.0	9872.2	9787.3	9782.3	9707.4
7.5°	10546.3	10506.4	10491.4	10376.5	9957.1	9702.4	9263.0	9008.3	8953.4	8758.6	8833.5
10°	10721.1	10796.0	10721.1	10096.9	9512.6	8928.4	8499.0	8104.5	7949.7	7824.8	7749.9
12.5°	11080.6	11045.7	10611.2	9767.3	8948.4	8254.3	7615.1	7200.6	7045.8	6936.0	6926.0
15°	11385.2	11210.4	10546.3	9248.0	8069.5	7330.5	6806.2	6511.5	6441.6	6451.6	6496.6
17.5°	11490.1	11370.2	10206.7	8708.7	7415.4	6546.5	6301.8	6256.9	6321.8	6396.7	6416.7
20°	11654.9	11465.1	10066.9	7974.6	6606.4	6057.1	6042.2	6201.9	6321.8	6431.6	6446.6
22.5°	11999.4	11520.0	9612.5	7280.5	6052.1	5912.3	6057.1	6192.0	6376.7	6466.6	6386.7
25°	12099.3	11400.2	8973.3	6446.6	5702.6	5822.4	5977.2	6162.0	6291.8	6341.8	6376.7
27.5°	12184.2	11215.4	8109.5	5892.3	5592.7	5817.4	5977.2	6132.0	6201.9	6246.9	6286.8
30°	12423.9	11160.5	7360.4	5522.8	5522.8	5717.6	5922.3	5962.3	6057.1	6112.1	6182.0
32.5°	12543.7	10781.0	6591.4	5288.1	5452.9	5767.5	5782.5	5857.4	5862.4	5907.3	5832.4
35°	12858.3	10511.3	5877.4	5118.4	5482.9	5717.6	5792.5	5747.5	5502.9	5383.0	5408.0
37.5°	13088.0	10376.5	5363.0	5098.4	5487.9	5772.5	5812.4	5472.9	5218.2	5018.5	5068.4
40°	13707.2	10042.0	4973.5	5063.4	5532.8	5832.4	5722.6	5353.0	4893.6	4688.9	4654.0
42.5°	14181.6	9802.3	4728.9	5023.5	5567.8	5917.3	5677.6	5113.4	4644.0	4454.2	4504.1
45°	14730.9	9747.3	4599.0	5033.5	5627.7	5962.3	5622.7	4928.6	4429.2	4354.3	4339.4
47.5°	14925.6	9352.9	4459.2	4948.6	5612.7	5947.3	5437.9	4788.8	4349.3	4359.3	4399.3
50°	14601.0	8948.4	4354.3	4773.8	5512.8	5812.4	5148.3	4604.0	4304.4	4429.2	4499.2
52.5°	14186.6	8533.9	4139.6	4539.1	5308.1	5602.7	5013.5	4594.0	4259.5	4219.5	4234.5
55°	14311.4	8194.4	3840.0	4219.5	4978.5	5213.2	4863.7	4499.2	4149.6	3999.8	4049.7
56°	13906.9	7844.8	3645.3	4019.8	4753.8	4963.6	4788.8	4414.3	4059.7	3959.9	3959.9
57.5°	12763.4	6671.3	3390.6	3700.2	4279.4	4529.1	4644.0	4364.3	3959.9	3785.1	3790.1
60°	9412.8	4743.8	3041.0	3260.8	3545.4	3745.1	4279.4	4224.5	3710.2	3590.3	3545.4
62.5°	5802.5	3465.5	2791.4	2876.3	3021.1	3185.9	3735.1	3825.0	3445.5	3315.7	3285.7
65°	3250.8	2651.6	2601.6	2636.6	2706.5	2791.4	3101.0	3300.7	3041.0	2841.3	2831.3
67.5°	2376.9	2371.9	2411.9	2441.8	2471.8	2471.8	2546.7	2626.6	2591.6	2431.8	2416.9
70°	2112.3	2127.2	2157.2	2162.2	2172.2	2137.2	2077.3	2052.3	2092.3	1992.4	1972.4
72.5°	1742.7	1792.7	1827.6	1832.6	1777.7	1732.7	1652.9	1568.0	1538.0	1518.0	1513.0
75°	1338.3	1373.2	1388.2	1383.2	1363.2	1298.3	1203.4	1118.5	1063.6	1003.7	1033.7
77.5°	903.8	953.8	978.7	978.7	948.8	848.9	804.0	739.0	684.1	619.2	629.2
80°	634.2	669.1	709.1	704.1	654.2	604.2	539.3	479.4	434.4	384.5	379.5
82.5°	474.4	494.4	514.3	504.3	469.4	419.5	374.5	319.6	269.6	234.7	234.7
85°	169.8	184.8	224.7	234.7	254.7	254.7	214.7	179.8	144.8	119.8	119.8
87.5°	49.9	49.9	54.9	54.9	49.9	54.9	44.9	49.9	54.9	35.0	35.0
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)