

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: P531906

Luminaire Tested: **GALN-SA7B-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27802 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

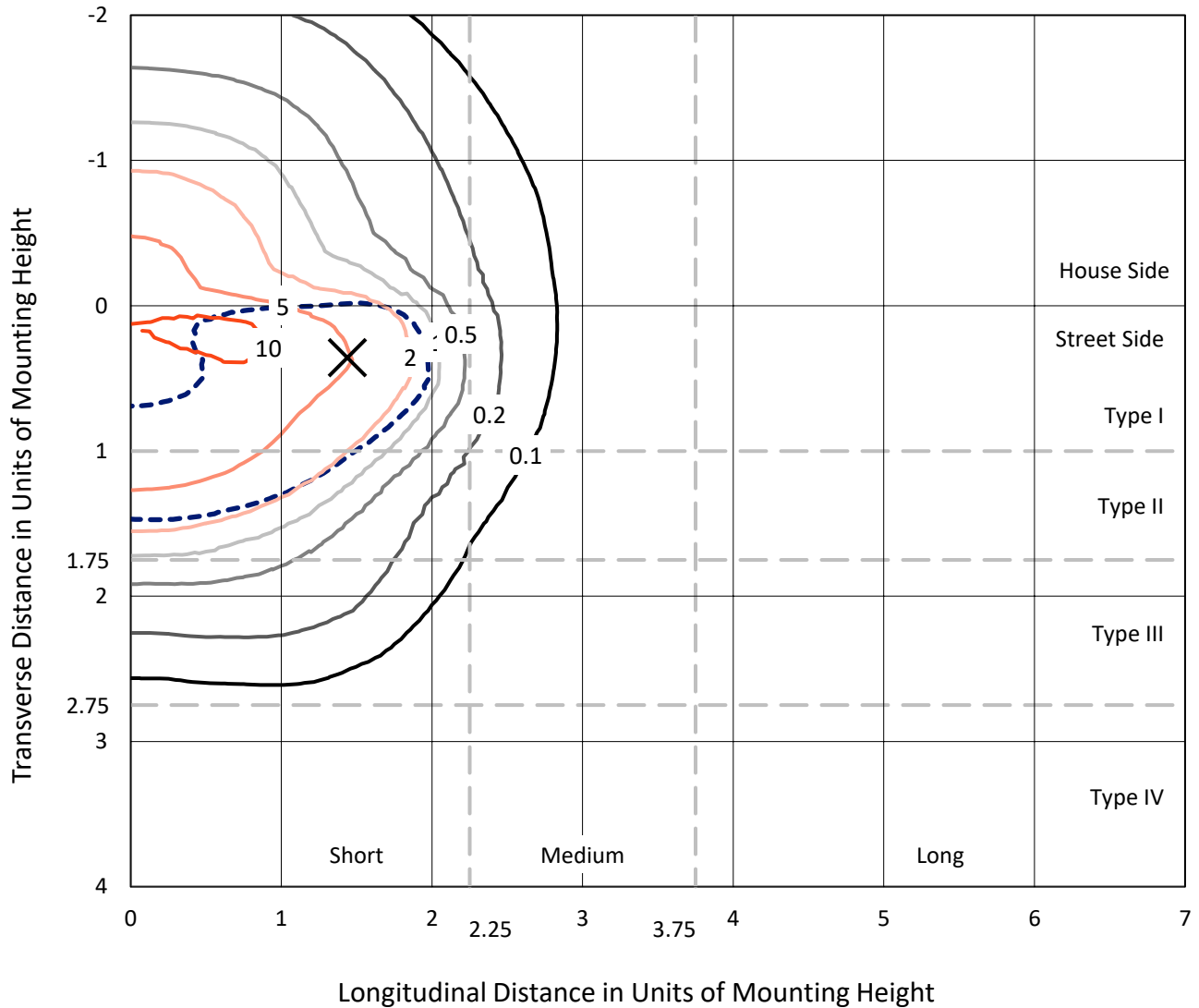
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531906
 CATALOG NUMBER: GALN-SA7B-727-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

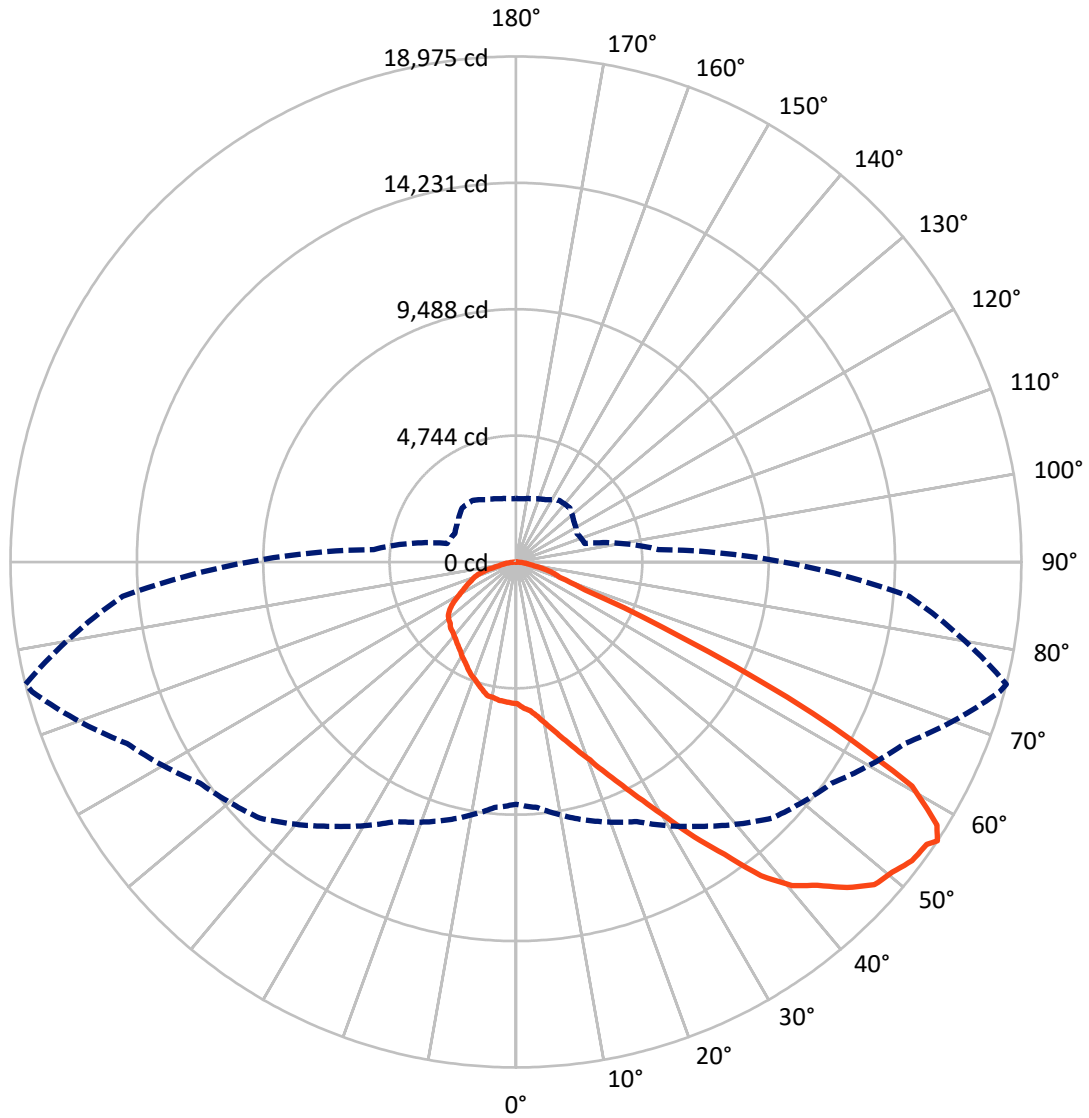
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

REPORT NUMBER: P531906
CATALOG NUMBER: GALN-SA7B-727-U-T2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7475.1	0.0	7475.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	20326.9	0.0	20326.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	27802.0	0.0	27802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.5	1.9
10°-20°	1657.2	6.0
20°-30°	2898.2	10.4
30°-40°	4537.7	16.3
40°-50°	6601.1	23.7
50°-60°	7255.0	26.1
60°-70°	3238.3	11.6
70°-80°	935.4	3.4
80°-90°	151.7	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°	27802.0	100.0
0°-180°	27802.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531906

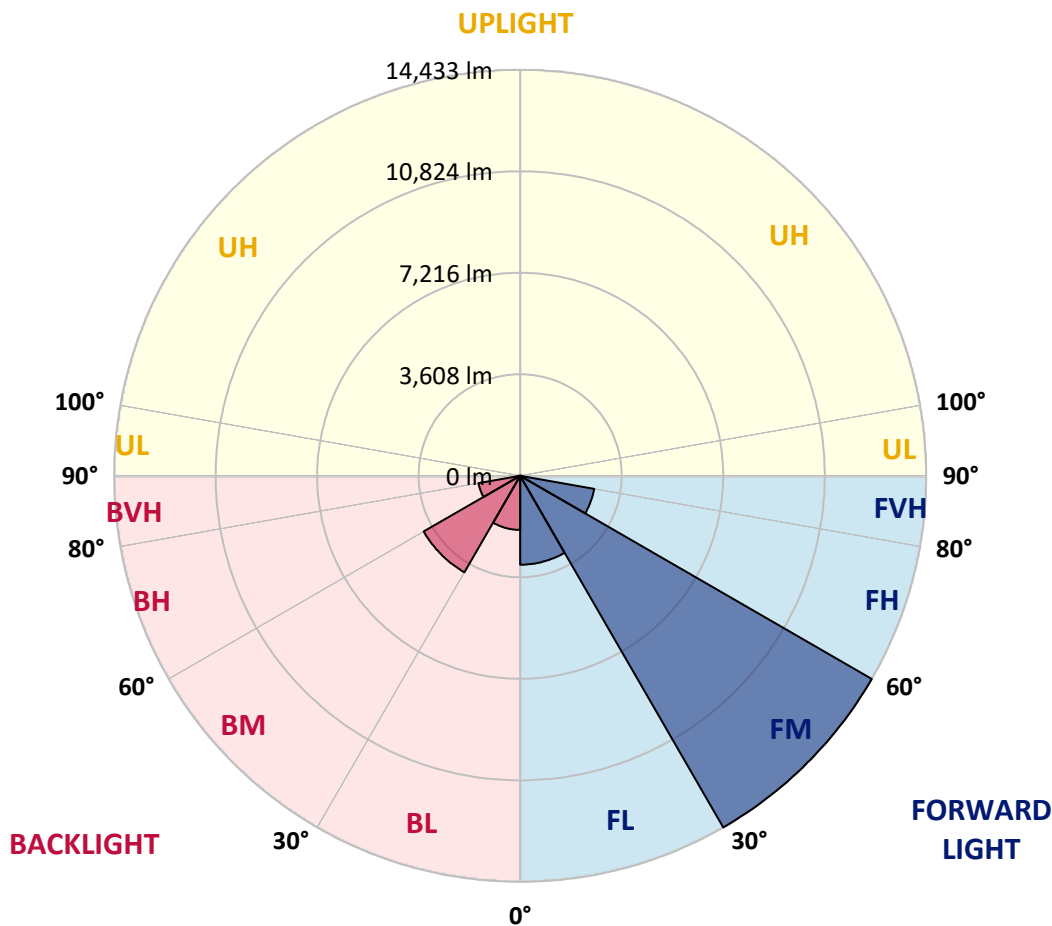
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3159.4	11.4			
FM (30°-60°)	14432.5	51.9			
FH (60°-80°)	2669.6	9.6			G2/5000
FVH (80°-90°)	65.3	0.2			G1/100
BL (0°-30°)	1923.5	6.9	B3/2500		
BM (30°-60°)	3961.2	14.2	B3/5000		
BH (60°-80°)	1504.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	86.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5319.6	5319.6	5319.6	5319.6	5319.6	5319.6	5319.6	5319.6	5319.6	5319.6	5319.6
2.5°	5860.2	5766.5	5759.2	5734.0	5748.4	5683.6	5615.1	5525.0	5431.3	5488.9	5352.0
5°	6271.0	6144.9	6195.3	6108.8	6119.7	6033.2	5892.6	5788.1	5672.8	5604.3	5507.0
7.5°	6415.2	6426.0	6462.0	6447.6	6375.5	6375.5	6281.8	6098.0	5896.2	5856.6	5694.4
10°	6609.8	6613.4	6573.8	6584.6	6685.5	6638.6	6555.7	6476.5	6217.0	6170.1	5881.8
12.5°	6678.3	6613.4	6678.3	6735.9	6854.9	6919.7	6901.7	6844.1	6566.6	6534.1	6112.4
15°	6689.1	6649.4	6703.5	6833.3	6937.8	7211.7	7348.6	7309.0	6941.4	6945.0	6371.9
17.5°	6638.6	6692.7	6714.3	6826.0	7067.5	7323.4	7719.8	7773.9	7471.2	7424.3	6699.9
20°	6707.1	6667.5	6696.3	6797.2	7118.0	7518.0	8037.0	8393.8	7968.5	7936.1	7038.7
22.5°	6970.2	6916.1	6908.9	6973.8	7204.5	7618.9	8372.2	9013.7	8574.0	8592.0	7460.4
25°	7175.6	7204.5	7179.2	7175.6	7319.8	7770.3	8815.5	9752.5	9395.7	9291.2	7957.7
27.5°	7528.8	7597.3	7546.8	7615.3	7582.9	7997.4	9132.6	10570.6	10282.3	10141.8	8408.2
30°	8019.0	8055.0	8008.2	8008.2	7910.9	8314.5	9420.9	11424.8	11305.9	11114.8	8938.0
32.5°	8664.1	8718.2	8624.5	8570.4	8556.0	8786.6	9939.9	12268.1	12470.0	12307.8	9640.8
35°	9518.3	9485.8	9374.1	9323.6	9129.0	9511.0	10711.2	13237.6	13767.4	13479.1	10491.3
37.5°	10271.5	10221.0	10213.8	9932.7	9979.6	10293.1	11367.1	13972.8	15025.2	14942.3	11388.8
40°	10974.3	11021.1	11096.8	10938.2	10866.2	11212.2	12131.2	14535.1	16001.9	15969.5	12080.7
42.5°	11727.5	11684.3	11817.6	11684.3	11576.2	12066.3	12960.1	14924.3	16859.7	16593.0	12805.1
45°	12819.6	12682.6	12729.5	12740.3	12661.0	12841.2	13302.5	15205.4	17461.5	17432.7	13334.9
47.5°	13731.4	13735.0	13655.7	13594.4	13352.9	13533.2	13684.5	15382.0	18153.5	18106.7	13540.4
50°	14070.2	14023.3	14254.0	14387.3	14401.7	14034.1	13983.7	15479.3	18517.5	18312.1	13745.8
52.5°	12852.0	12895.2	13259.2	14052.1	14509.8	14549.5	14333.2	15681.2	18665.3	18622.0	13911.6
55°	10343.6	10552.6	11150.9	12066.3	13151.1	14344.1	14711.7	15890.2	18744.6	18708.5	14646.8
56°	9093.0	9255.2	10033.6	10750.8	12113.2	13598.0	14473.8	16113.6	18805.9	18975.2	14819.8
57.5°	7319.8	7507.2	8065.8	8880.3	10487.7	12178.0	13817.9	15839.7	18568.0	18632.9	14945.9
60°	4577.1	4595.1	5265.5	5802.5	6934.2	8584.8	10545.4	13781.8	17184.0	17090.3	13425.0
62.5°	3002.2	3005.8	3614.8	4054.5	4569.9	4948.3	6206.1	9139.8	12679.0	12513.2	9557.9
65°	2108.4	2155.2	2627.3	3214.8	3423.8	3225.6	3186.0	4818.6	7081.9	6844.1	5135.7
67.5°	1542.5	1546.1	1964.2	2594.9	2897.6	2454.3	1993.0	2353.4	2803.9	2796.7	2378.7
70°	1019.9	1063.2	1383.9	1939.0	2285.0	1971.4	1629.0	1683.1	1784.0	1784.0	1769.6
72.5°	594.7	634.3	846.9	1229.0	1283.0	1232.6	1290.2	1441.6	1506.5	1502.9	1484.9
75°	338.8	356.8	403.7	511.8	637.9	753.2	947.9	1092.0	1156.9	1196.5	1149.7
77.5°	198.2	209.0	237.9	291.9	331.6	407.3	515.4	616.3	702.8	692.0	699.2
80°	104.5	104.5	133.3	173.0	230.7	288.3	342.4	400.0	446.9	457.7	468.5
82.5°	61.3	64.9	86.5	126.1	165.8	205.4	263.1	302.7	346.0	349.6	356.8
85°	32.4	36.0	54.1	82.9	111.7	126.1	129.7	122.5	133.3	126.1	144.2
87.5°	10.8	10.8	18.0	14.4	14.4	18.0	21.6	21.6	28.8	28.8	28.8
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°	5319.6	5319.6	5319.6	5319.6	5319.6	5319.6	5319.6	5319.6	5319.6	5319.6	5319.6
2.5°	5348.4	5348.4	5287.1	5171.8	5153.8	5106.9	5063.7	5060.1	5027.6	4998.8	4984.4
5°	5449.3	5337.6	5247.5	5143.0	5020.4	4962.8	4897.9	4825.8	4797.0	4825.8	4822.2
7.5°	5564.6	5470.9	5200.6	5006.0	4865.4	4807.8	4735.7	4660.0	4667.2	4667.2	4616.8
10°	5676.4	5550.2	5117.7	4869.1	4663.6	4620.4	4580.7	4609.6	4645.6	4652.8	4620.4
12.5°	5863.8	5579.0	5078.1	4732.1	4602.4	4508.6	4533.9	4613.2	4688.8	4667.2	4692.5
15°	6004.3	5604.3	4897.9	4591.5	4429.4	4472.6	4562.7	4616.8	4742.9	4728.5	4753.7
17.5°	6141.3	5618.7	4721.3	4404.1	4335.7	4454.6	4523.1	4678.0	4717.7	4804.2	4836.6
20°	6422.4	5647.5	4541.1	4288.8	4267.2	4404.1	4523.1	4595.1	4681.6	4757.3	4757.3
22.5°	6566.6	5633.1	4422.2	4137.4	4205.9	4292.4	4400.5	4523.1	4523.1	4595.1	4598.7
25°	6746.8	5575.4	4234.7	4065.4	4115.8	4198.7	4321.2	4278.0	4324.8	4324.8	4382.5
27.5°	6952.2	5452.9	4072.6	3935.6	4036.5	4126.6	4144.6	4115.8	4061.7	4054.5	4032.9
30°	7118.0	5301.5	3953.6	3892.4	3975.3	4025.7	3968.0	3906.8	3813.1	3805.9	3755.4
32.5°	7345.0	5114.1	3805.9	3784.2	3877.9	3881.5	3863.5	3769.8	3632.9	3575.2	3517.5
35°	7727.1	5006.0	3694.1	3726.6	3755.4	3744.6	3712.2	3611.2	3474.3	3449.1	3427.4
37.5°	8008.2	4926.7	3578.8	3618.5	3643.7	3658.1	3560.8	3449.1	3452.7	3402.2	3387.8
40°	8325.3	4876.3	3485.1	3503.1	3506.7	3553.6	3434.6	3380.6	3405.8	3373.4	3395.0
42.5°	8732.6	4890.7	3387.8	3373.4	3441.9	3423.8	3366.2	3294.1	3308.5	3211.2	3225.6
45°	8948.8	4988.0	3330.1	3265.3	3340.9	3337.3	3261.7	3193.2	3106.7	2919.3	2926.5
47.5°	9093.0	5013.2	3193.2	3149.9	3229.2	3276.1	3189.6	3031.0	2908.5	2775.1	2742.7
50°	9240.7	5060.1	3128.3	3038.2	3070.6	3182.4	3074.2	2922.9	2803.9	2685.0	2703.0
52.5°	9370.5	5150.2	3002.2	2868.8	2926.5	3049.0	2991.3	2807.5	2677.8	2580.5	2551.7
55°	9947.1	5352.0	2789.5	2616.5	2753.5	2908.5	2876.0	2652.6	2512.0	2461.6	2454.3
56°	10037.2	5359.2	2677.8	2530.0	2656.2	2861.6	2822.0	2584.1	2458.0	2378.7	2382.3
57.5°	10051.7	5272.7	2519.2	2450.7	2558.9	2793.1	2742.7	2530.0	2357.0	2285.0	2263.3
60°	8844.3	4115.8	2321.0	2277.8	2403.9	2584.1	2566.1	2382.3	2187.6	2104.8	2144.4
62.5°	6029.6	3016.6	2166.0	2158.8	2223.7	2400.3	2353.4	2187.6	2025.5	1971.4	1946.2
65°	3510.3	2288.6	2014.7	1985.8	2039.9	2133.6	2166.0	1993.0	1823.6	1787.6	1776.8
67.5°	2072.3	1892.1	1820.0	1773.2	1755.2	1812.8	1838.1	1737.1	1567.8	1517.3	1560.5
70°	1733.5	1683.1	1686.7	1607.4	1564.2	1524.5	1502.9	1412.8	1272.2	1207.4	1189.3
72.5°	1495.7	1474.1	1459.6	1387.6	1347.9	1257.8	1164.1	1074.0	969.5	915.4	919.0
75°	1142.5	1135.3	1142.5	1106.4	1038.0	965.9	879.4	764.1	684.8	616.3	630.7
77.5°	681.2	702.8	713.6	699.2	670.4	605.5	551.4	475.7	400.0	346.0	338.8
80°	468.5	486.5	504.6	486.5	457.7	410.9	353.2	295.5	241.5	212.6	205.4
82.5°	356.8	374.8	385.6	367.6	331.6	281.1	241.5	201.8	158.6	129.7	122.5
85°	129.7	147.8	144.2	173.0	187.4	180.2	155.0	118.9	90.1	64.9	61.3
87.5°	36.0	32.4	36.0	36.0	36.0	32.4	28.8	28.8	28.8	18.0	14.4
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)