

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: P533680

Luminaire Tested: **GALN-SA9A-760-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533680
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-SA9A-760-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 615mA 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: 36190 lumens
Efficiency: N/A
Efficacy: 132.1 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

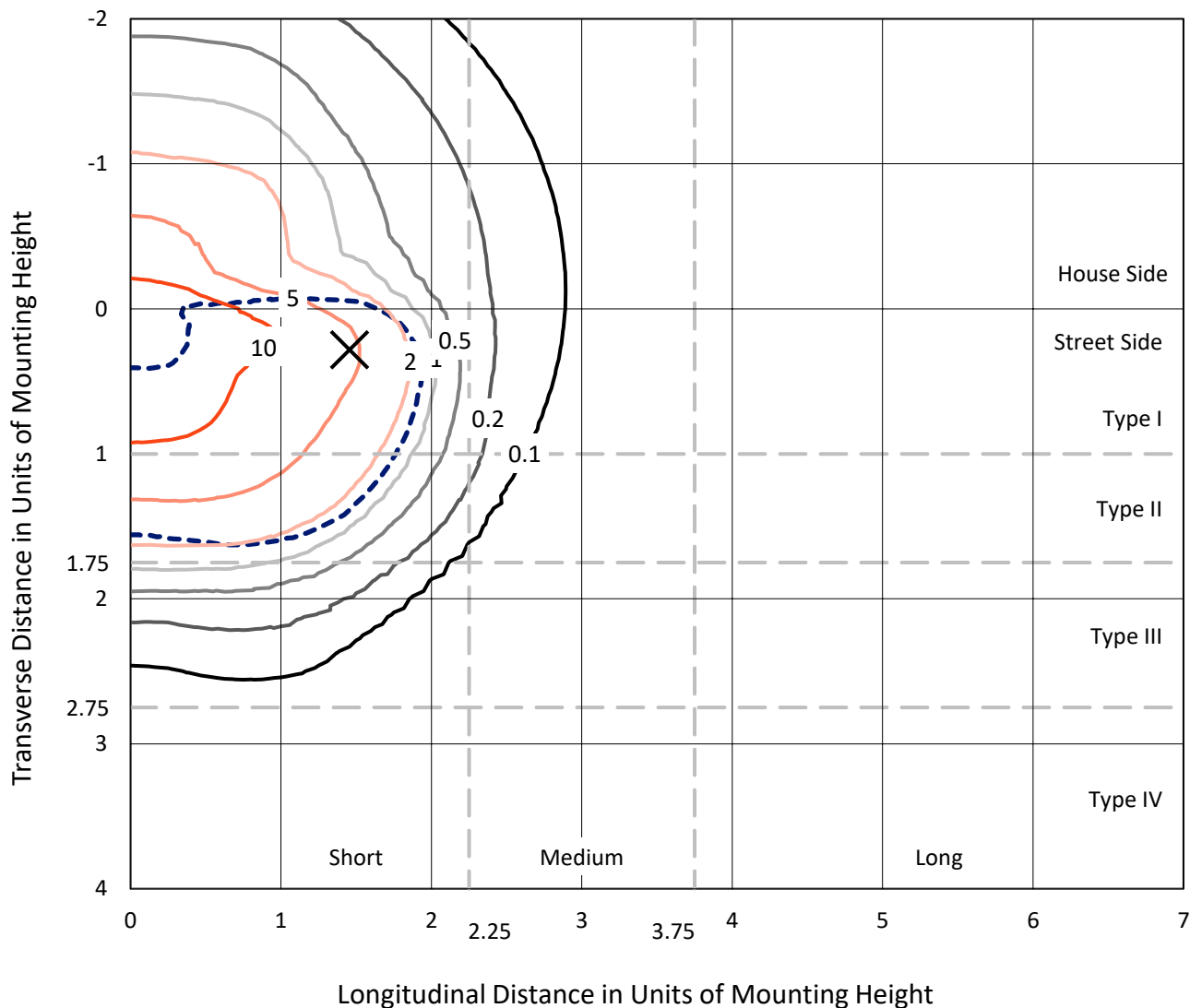
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

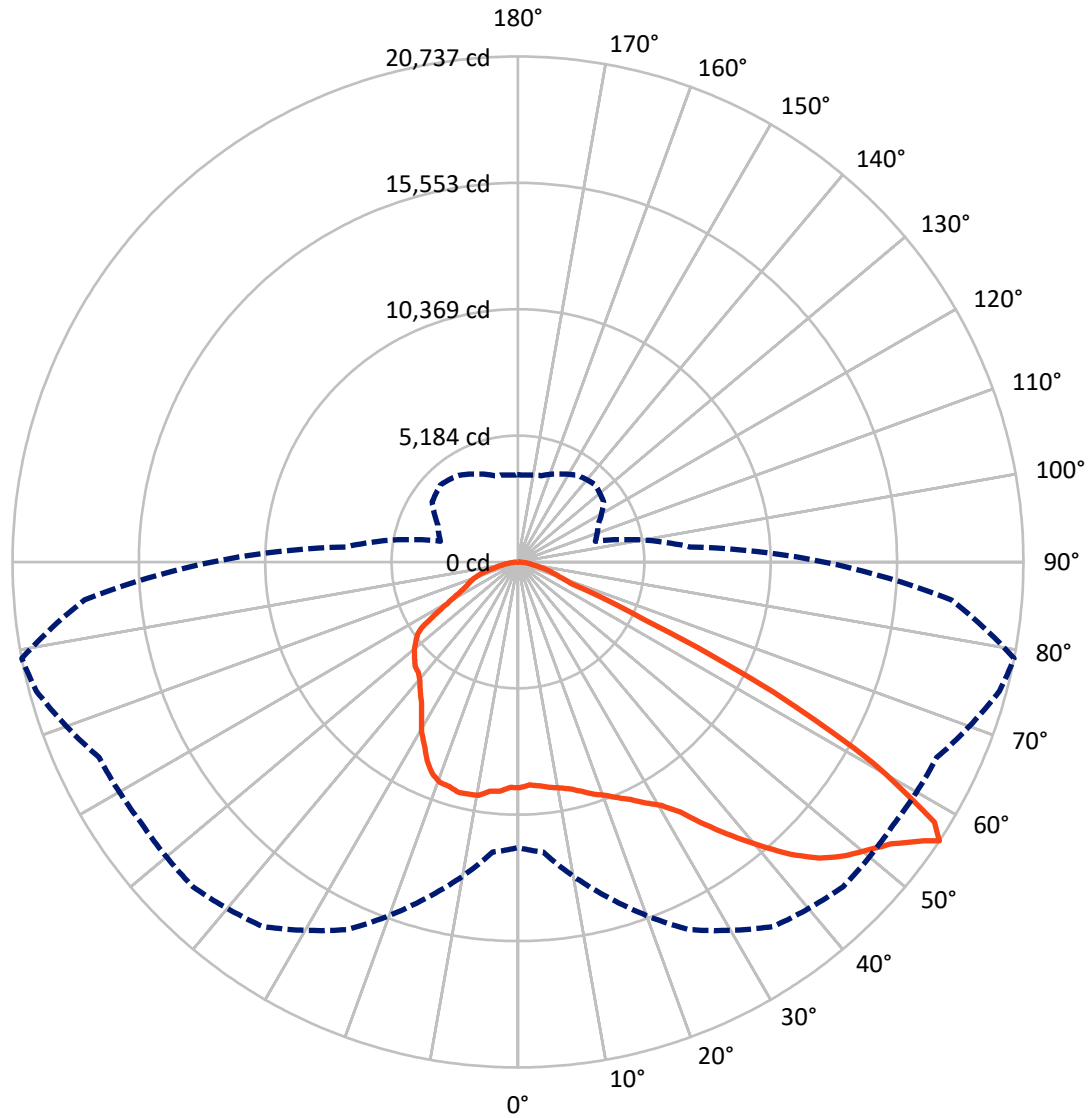
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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	10687.7	0.0	10687.7
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	25502.3	0.0	25502.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	36190.0	0.0	36190.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	841.9	2.3
10°-20°	2304.0	6.4
20°-30°	3941.7	10.9
30°-40°	6041.1	16.7
40°-50°	8164.5	22.6
50°-60°	9377.2	25.9
60°-70°	4274.4	11.8
70°-80°	1053.8	2.9
80°-90°	191.5	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°	36190.0	100.0
0°-180°	36190.0	100.0

Coefficient of Utilization



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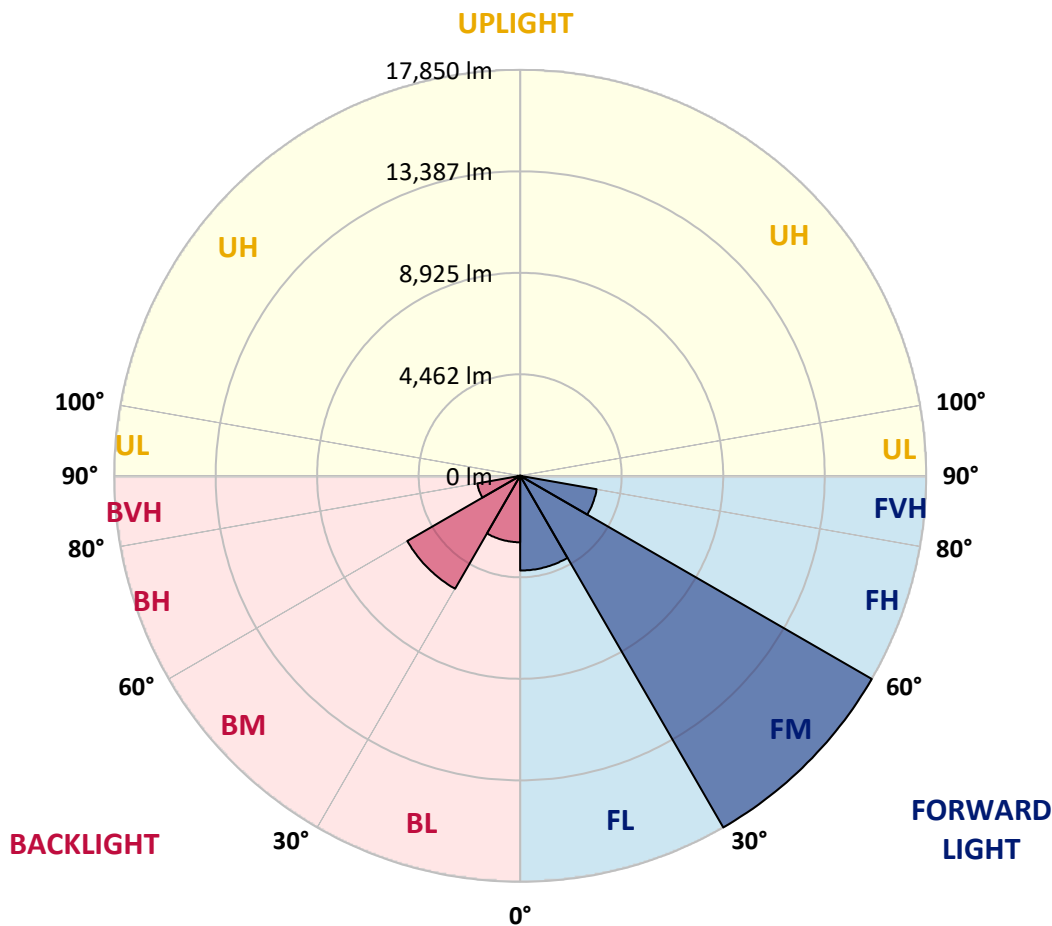
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4164.0	11.5			
FM (30°-60°)	17850.0	49.3			
FH (60°-80°)	3411.9	9.4			G2/5000
FVH (80°-90°)	76.5	0.2			G1/100
BL (0°-30°)	2923.5	8.1	B4/5000		
BM (30°-60°)	5732.7	15.8	B4/8500		
BH (60°-80°)	1916.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	115.1	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°	9259.6	9259.6	9259.6	9259.6	9259.6	9259.6	9259.6	9259.6	9259.6	9259.6	9259.6
2.5°	8808.8	8786.2	8840.3	8880.9	8930.5	8993.6	9025.2	9043.2	9201.0	9160.4	9282.1
5°	8619.4	8560.8	8601.4	8633.0	8718.6	8795.3	8880.9	9016.2	9160.4	9223.5	9372.3
7.5°	8452.6	8421.1	8412.1	8434.6	8551.8	8651.0	8799.8	8998.1	9232.5	9336.2	9421.9
10°	8177.6	8132.6	8200.2	8349.0	8380.5	8587.9	8759.2	9043.2	9246.1	9426.4	9678.8
12.5°	8055.9	8010.9	8024.4	8110.0	8330.9	8529.3	8732.1	9052.2	9480.5	9552.6	9890.7
15°	8249.8	8204.7	8218.2	8195.7	8407.6	8511.2	8831.3	9232.5	9642.8	9764.5	10125.1
17.5°	8691.6	8696.1	8637.5	8587.9	8538.3	8759.2	8980.1	9340.7	9705.9	10012.4	10282.9
20°	9534.6	9385.8	9268.6	8989.1	8912.5	9007.1	9286.6	9633.8	9962.8	10215.3	10521.8
22.5°	10183.7	10197.3	10030.5	9570.6	9403.8	9444.4	9683.3	9967.4	10328.0	10508.3	10860.0
25°	11125.9	11031.3	10850.9	10485.8	10111.6	10143.2	10319.0	10575.9	10675.1	10801.3	11184.5
27.5°	11987.0	12014.0	11657.9	11315.3	10850.9	10760.8	11076.3	11121.4	10954.6	11193.6	11324.3
30°	12861.5	12839.0	12604.6	12203.4	11748.0	11766.1	11905.8	11684.9	11455.0	11585.8	11675.9
32.5°	13767.7	13510.7	13501.7	13141.0	12793.9	12627.1	12455.8	12564.0	12207.9	12234.9	12149.3
35°	14493.5	14529.5	14322.2	14065.2	13893.9	13600.9	13132.0	13325.9	13258.3	13226.7	12857.0
37.5°	15020.9	14881.2	14984.8	14899.2	14736.9	14371.7	13884.9	14069.7	14101.3	14254.5	13826.3
40°	15453.7	15395.1	15670.1	15715.2	15602.5	14813.5	13939.0	14489.0	14962.3	15295.9	14786.5
42.5°	15661.1	15787.3	16075.8	16422.9	16170.5	15327.5	14218.5	14809.0	15863.9	16391.4	15697.1
45°	15940.6	15778.3	16206.5	16842.2	16846.7	15760.2	14489.0	15241.8	16567.2	17333.6	16319.2
47.5°	15656.5	15737.7	16179.5	16986.4	17193.8	16215.5	15219.3	15854.9	17342.6	18023.3	16896.3
50°	15020.9	15183.2	15990.1	16828.6	17455.3	16697.9	16057.8	16517.6	18059.4	18577.8	16990.9
52.5°	14358.2	14448.4	15710.6	16950.4	17572.5	17320.0	17180.3	17432.7	18933.9	19204.4	17108.1
55°	12555.0	12983.3	14786.5	16896.3	18145.0	18442.5	18334.3	18704.0	19925.7	20196.2	17748.3
56°	11721.0	11946.4	14232.0	16643.8	18257.7	18852.8	18798.7	18965.5	20453.1	20737.1	17847.5
57.5°	10179.2	10197.3	12135.7	15525.8	17833.9	18974.5	18920.4	19051.1	20349.5	20155.6	16977.4
60°	6369.9	6649.4	8258.8	11941.9	15165.2	17604.0	17910.6	16860.2	17157.7	16747.5	13208.7
62.5°	3299.9	3259.3	4327.8	6983.0	10066.5	12604.6	12888.6	12839.0	12379.2	11779.6	8628.5
65°	1645.4	1654.5	2263.1	3457.7	5157.2	6599.8	7393.2	7478.9	6257.2	5756.8	4093.3
67.5°	1194.6	1239.7	1627.4	2114.3	2429.9	2718.4	3331.5	3268.4	2474.9	2353.2	2181.9
70°	928.7	969.2	1320.9	1613.9	1465.1	1465.1	1595.9	1650.0	1762.7	1812.2	1870.9
72.5°	676.2	707.8	1009.8	1113.5	960.2	1032.3	1194.6	1320.9	1438.1	1456.1	1523.7
75°	464.3	491.4	662.7	613.1	577.0	712.3	874.6	991.8	1077.4	1122.5	1163.1
77.5°	302.0	311.1	378.7	320.1	369.7	459.8	568.0	667.2	752.8	788.9	797.9
80°	135.2	148.8	162.3	202.9	257.0	329.1	405.7	486.9	541.0	554.5	581.5
82.5°	76.6	76.6	99.2	144.3	189.3	238.9	293.0	351.6	414.7	428.3	423.8
85°	40.6	40.6	58.6	85.7	117.2	139.8	135.2	139.8	148.8	171.3	166.8
87.5°	13.5	13.5	18.0	18.0	22.5	27.0	22.5	31.6	40.6	40.6	40.6
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°	9259.6	9259.6	9259.6	9259.6	9259.6	9259.6	9259.6	9259.6	9259.6	9259.6	9259.6
2.5°	9246.1	9286.6	9232.5	9349.7	9349.7	9327.2	9214.5	9250.6	9277.6	9277.6	9300.2
5°	9421.9	9408.4	9444.4	9304.7	9219.0	9187.5	9002.6	8912.5	8835.8	8831.3	8763.7
7.5°	9521.1	9485.0	9471.5	9367.8	8989.1	8759.2	8362.5	8132.6	8083.0	7907.2	7974.8
10°	9678.8	9746.5	9678.8	9115.3	8587.9	8060.4	7672.7	7316.6	7176.9	7064.2	6996.5
12.5°	10003.4	9971.9	9579.7	8817.8	8078.5	7451.8	6874.8	6500.6	6360.9	6261.7	6252.7
15°	10278.4	10120.6	9521.1	8349.0	7285.1	6617.9	6144.5	5878.5	5815.4	5824.4	5865.0
17.5°	10373.1	10264.9	9214.5	7862.1	6694.5	5910.1	5689.2	5648.6	5707.2	5774.8	5792.9
20°	10521.8	10350.5	9088.3	7199.4	5964.2	5468.3	5454.8	5599.0	5707.2	5806.4	5819.9
22.5°	10832.9	10400.1	8678.0	6572.8	5463.8	5337.6	5468.3	5590.0	5756.8	5838.0	5765.8
25°	10923.1	10291.9	8101.0	5819.9	5148.2	5256.4	5396.2	5563.0	5680.2	5725.3	5756.8
27.5°	10999.7	10125.1	7321.1	5319.5	5049.0	5251.9	5396.2	5535.9	5599.0	5639.6	5675.7
30°	11216.1	10075.5	6644.9	4985.9	4985.9	5161.7	5346.6	5382.6	5468.3	5517.9	5581.0
32.5°	11324.3	9732.9	5950.7	4774.1	4922.8	5206.8	5220.4	5288.0	5292.5	5333.1	5265.4
35°	11608.3	9489.5	5306.0	4620.8	4949.9	5161.7	5229.4	5188.8	4967.9	4859.7	4882.2
37.5°	11815.7	9367.8	4841.7	4602.7	4954.4	5211.3	5247.4	4940.9	4710.9	4530.6	4575.7
40°	12374.7	9065.7	4490.0	4571.2	4994.9	5265.4	5166.3	4832.7	4417.9	4233.1	4201.5
42.5°	12802.9	8849.4	4269.1	4535.1	5026.5	5342.1	5125.7	4616.3	4192.5	4021.2	4066.3
45°	13298.8	8799.8	4151.9	4544.1	5080.6	5382.6	5076.1	4449.5	3998.7	3931.0	3917.5
47.5°	13474.6	8443.6	4025.7	4467.5	5067.1	5369.1	4909.3	4323.2	3926.5	3935.6	3971.6
50°	13181.6	8078.5	3931.0	4309.7	4976.9	5247.4	4647.8	4156.4	3886.0	3998.7	4061.8
52.5°	12807.4	7704.3	3737.2	4097.8	4792.1	5058.1	4526.1	4147.4	3845.4	3809.3	3822.8
55°	12920.1	7397.8	3466.7	3809.3	4494.6	4706.4	4390.9	4061.8	3746.2	3611.0	3656.0
56°	12555.0	7082.2	3290.9	3629.0	4291.7	4481.0	4323.2	3985.1	3665.1	3574.9	3574.9
57.5°	11522.6	6022.8	3061.0	3340.5	3863.4	4088.8	4192.5	3940.1	3574.9	3417.1	3421.6
60°	8497.7	4282.7	2745.4	2943.8	3200.7	3381.1	3863.4	3813.8	3349.5	3241.3	3200.7
62.5°	5238.4	3128.6	2520.0	2596.7	2727.4	2876.2	3372.0	3453.2	3110.6	2993.4	2966.3
65°	2934.8	2393.8	2348.7	2380.3	2443.4	2520.0	2799.5	2979.8	2745.4	2565.1	2556.1
67.5°	2145.8	2141.3	2177.4	2204.4	2231.5	2231.5	2299.1	2371.2	2339.7	2195.4	2181.9
70°	1906.9	1920.4	1947.5	1952.0	1961.0	1929.5	1875.4	1852.8	1888.9	1798.7	1780.7
72.5°	1573.3	1618.4	1650.0	1654.5	1604.9	1564.3	1492.2	1415.5	1388.5	1370.5	1365.9
75°	1208.2	1239.7	1253.2	1248.7	1230.7	1172.1	1086.4	1009.8	960.2	906.1	933.2
77.5°	816.0	861.0	883.6	883.6	856.5	766.4	725.8	667.2	617.6	559.0	568.0
80°	572.5	604.1	640.1	635.6	590.6	545.5	486.9	432.8	392.2	347.1	342.6
82.5°	428.3	446.3	464.3	455.3	423.8	378.7	338.1	288.5	243.4	211.9	211.9
85°	153.3	166.8	202.9	211.9	229.9	229.9	193.8	162.3	130.7	108.2	108.2
87.5°	45.1	45.1	49.6	49.6	45.1	49.6	40.6	45.1	49.6	31.6	31.6
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)