

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: P534068

Luminaire Tested: **GALN-SA9C-735-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-735-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50620 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G4

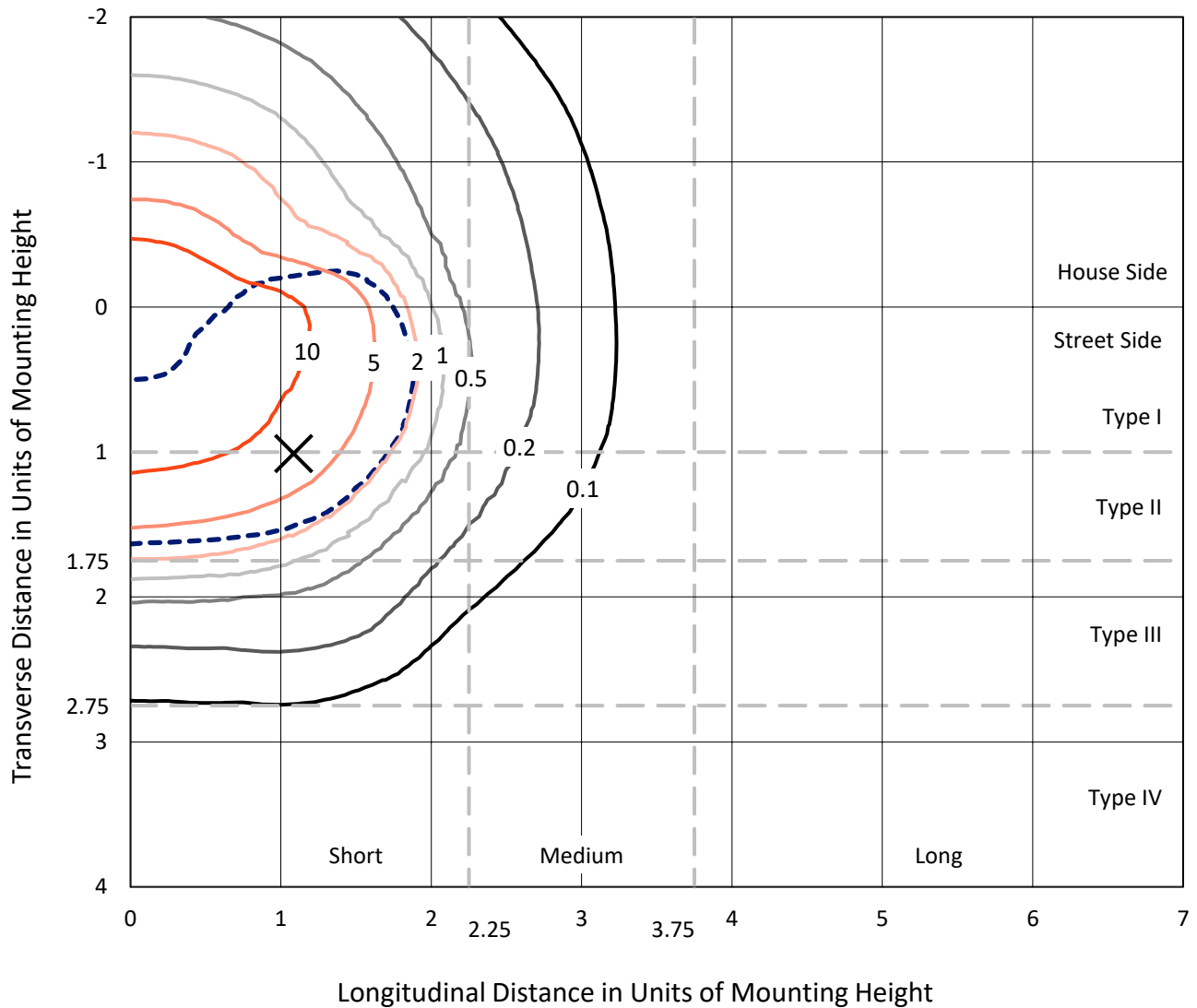
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

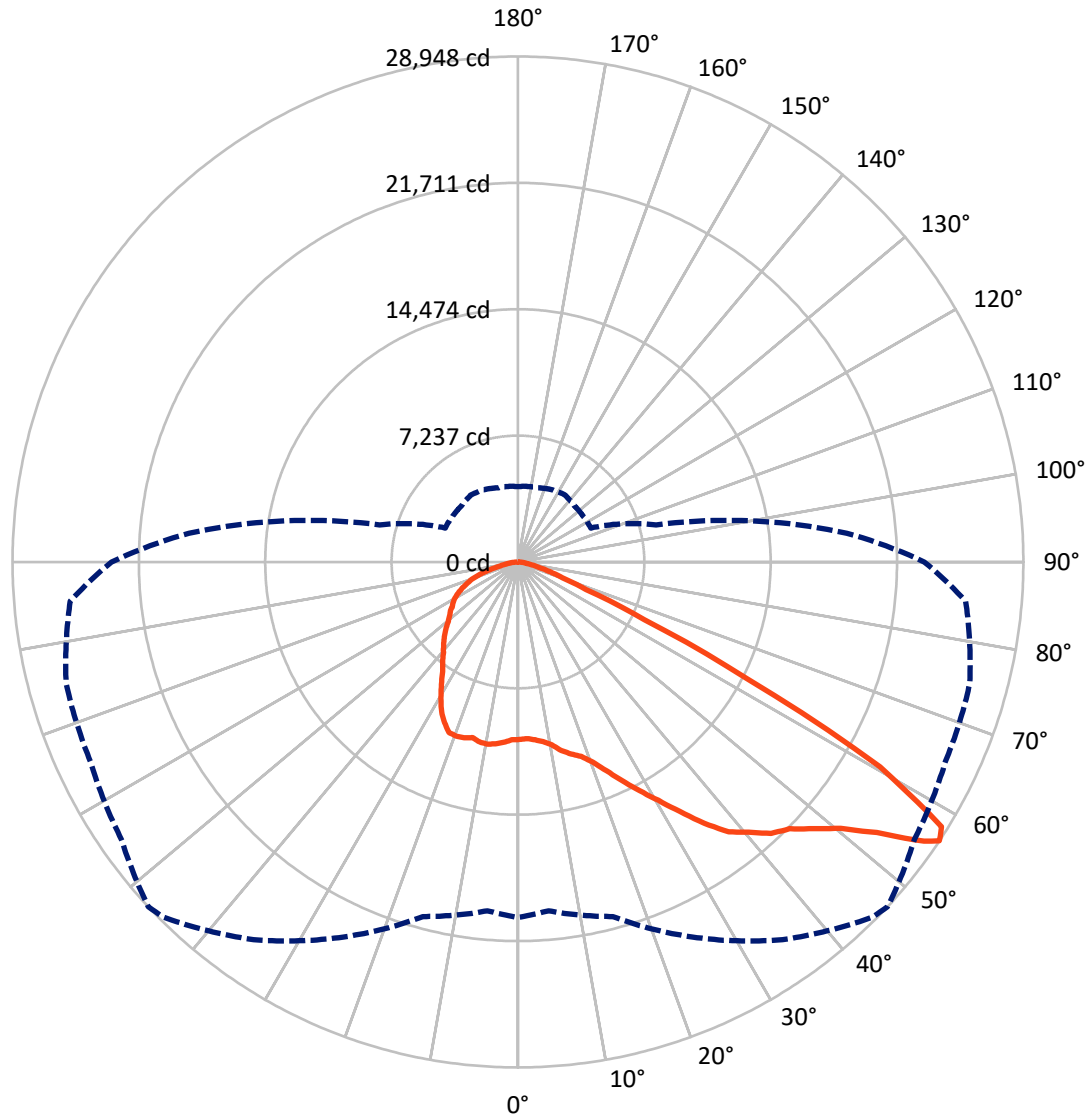
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16040.9	0.0	16040.9
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	34579.1	0.0	34579.1
	% Fixture	68.3	0.0	68.3
Total	Lumens	50620.0	0.0	50620.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	990.7	2.0
10°-20°	3125.3	6.2
20°-30°	5524.7	10.9
30°-40°	8298.0	16.4
40°-50°	11388.2	22.5
50°-60°	13567.5	26.8
60°-70°	5806.1	11.5
70°-80°	1643.1	3.2
80°-90°	276.5	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°	50620.0	100.0
0°-180°	50620.0	100.0

Coefficient of Utilization



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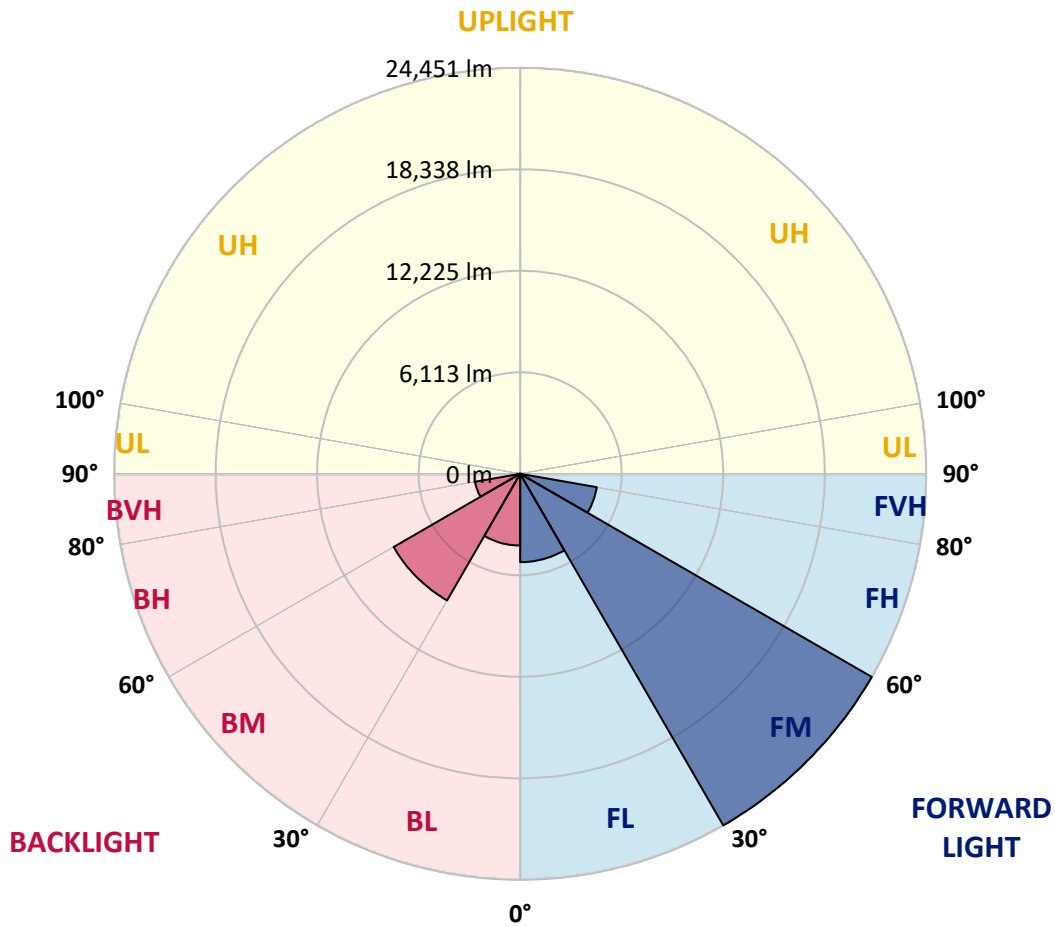
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5321.9	10.5			
FM (30°-60°)	24450.6	48.3			
FH (60°-80°)	4689.3	9.3			G2/5000
FVH (80°-90°)	117.4	0.2			G2/225
BL (0°-30°)	4318.9	8.5	B4/5000		
BM (30°-60°)	8803.0	17.4	B5		
BH (60°-80°)	2759.9	5.5	B4/5000		G4/5000
BVH (80°-90°)	159.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	10168.0	10168.0	10168.0	10168.0	10168.0	10168.0	10168.0	10168.0	10168.0	10168.0	10168.0
2.5°	10129.3	10109.9	10097.0	10200.3	10161.6	10168.0	10129.3	10168.0	10193.8	10135.7	10219.7
5°	10109.9	10168.0	10116.4	10148.7	10232.6	10206.8	10232.6	10310.0	10290.7	10271.3	10245.5
7.5°	10290.7	10297.1	10335.9	10348.8	10374.6	10348.8	10387.5	10458.5	10439.2	10329.4	10342.3
10°	10548.9	10561.8	10568.3	10639.3	10684.5	10690.9	10645.8	10581.2	10574.7	10723.2	10619.9
12.5°	10845.9	10813.6	10891.1	10916.9	10968.5	11026.7	11084.8	10949.2	11033.1	11039.6	10916.9
15°	11278.4	11310.7	11220.3	11220.3	11239.7	11246.2	11407.6	11343.0	11330.1	11259.1	11310.7
17.5°	11924.0	11704.5	11698.1	11607.7	11594.8	11646.4	11704.5	11756.2	11930.5	11788.4	11510.8
20°	12395.3	12446.9	12259.7	12150.0	12169.3	12285.6	12227.4	12459.9	12582.5	12350.1	12079.0
22.5°	13228.1	13053.8	13099.0	12853.7	12873.0	12995.7	12989.2	13228.1	13299.1	12931.1	12537.3
25°	13789.8	13744.6	13783.3	13589.6	13615.5	13712.3	13867.2	14261.1	14144.8	13738.1	12827.8
27.5°	14609.7	14519.3	14487.0	14416.0	14390.2	14648.4	14829.2	15248.8	15164.9	14570.9	13344.3
30°	15448.9	15390.8	15423.1	15132.6	15235.9	15784.6	15836.3	16410.9	16372.1	15326.3	13918.9
32.5°	16030.0	16062.2	16120.3	15958.9	16417.3	16856.3	17030.6	17682.7	17715.0	16623.9	15029.3
35°	16966.1	16856.3	16888.6	17075.8	17288.9	18089.4	18373.5	18806.0	19077.1	17986.1	16094.5
37.5°	17553.6	17669.8	17534.2	17831.2	18386.4	19348.3	19606.5	20052.0	20336.0	19328.9	17547.1
40°	18470.3	18283.1	18379.9	18593.0	19161.1	20413.5	20342.5	20800.9	20891.2	20471.6	18902.8
42.5°	19458.0	19367.7	19232.1	19716.3	20194.0	21104.3	21246.3	21033.3	21491.6	21588.5	20839.6
45°	20639.5	20749.2	20768.6	20781.5	21201.1	21995.2	21801.5	21614.3	22143.7	22847.4	22040.4
47.5°	21737.0	21388.3	21640.1	21988.7	22582.7	22589.1	22815.1	22369.6	22931.3	23557.5	23125.0
50°	22105.0	21937.1	22272.8	22931.3	23848.0	23944.9	23970.7	23338.0	23628.5	24125.6	23499.4
52.5°	21962.9	21904.8	22763.5	23783.5	25126.3	25617.0	25746.1	24964.9	25126.3	24900.4	24325.8
55°	21285.1	21459.4	22324.5	24403.2	26462.7	27979.8	28225.1	27237.4	26210.9	26385.2	25752.5
56°	20355.4	20052.0	21020.4	23699.6	26404.6	28748.1	28948.2	27715.1	27017.9	26791.9	25739.6
57.5°	17269.5	16875.7	18147.5	21323.8	24939.1	28457.5	28606.0	27915.2	26882.3	26423.9	23861.0
60°	10109.9	10303.6	11917.6	14706.5	19238.5	23331.6	23828.7	24332.2	23641.5	21588.5	17760.1
62.5°	4880.6	4758.0	5913.6	8431.4	11723.9	14893.7	14745.2	16159.1	16933.8	15339.2	11213.9
65°	2556.5	2543.6	3227.9	4603.0	6443.0	7824.5	7960.1	8721.9	9787.1	7902.0	5694.1
67.5°	1878.7	1930.3	2272.5	3234.4	4144.7	4228.6	4209.2	4590.1	4693.4	3970.4	3499.1
70°	1471.9	1497.8	1749.5	2459.7	3085.9	2763.1	2705.0	2750.2	3053.6	3182.8	3027.8
72.5°	1065.2	1091.0	1304.1	1659.2	1930.3	1885.1	1923.9	2175.6	2550.1	2685.6	2524.3
75°	710.1	729.5	845.7	1013.6	1142.7	1233.1	1304.1	1594.6	1943.2	2020.7	1943.2
77.5°	490.6	510.0	587.5	716.6	729.5	787.6	813.4	949.0	1162.1	1258.9	1207.3
80°	277.6	277.6	316.3	368.0	451.9	529.4	542.3	652.0	748.9	813.4	826.4
82.5°	129.1	135.6	167.9	226.0	297.0	368.0	380.9	451.9	522.9	587.5	606.9
85°	64.6	71.0	96.8	135.6	180.8	219.5	213.0	219.5	232.4	219.5	226.0
87.5°	19.4	19.4	25.8	32.3	25.8	32.3	32.3	38.7	45.2	51.6	58.1
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°	10168.0	10168.0	10168.0	10168.0	10168.0	10168.0	10168.0	10168.0	10168.0	10168.0	10168.0
2.5°	10226.1	10245.5	10116.4	10239.0	10193.8	10187.4	10277.8	10264.9	10297.1	10284.2	10206.8
5°	10232.6	10187.4	10323.0	10200.3	10258.4	10381.1	10297.1	10490.8	10394.0	10458.5	10316.5
7.5°	10432.7	10445.6	10419.8	10471.4	10445.6	10503.7	10458.5	10503.7	10426.3	10432.7	10561.8
10°	10607.0	10568.3	10613.5	10548.9	10594.1	10574.7	10471.4	10439.2	10465.0	10432.7	10516.6
12.5°	10929.8	10858.8	10826.5	10749.0	10697.4	10503.7	10342.3	10251.9	10374.6	10394.0	10355.2
15°	11259.1	11265.5	11117.0	10942.7	10619.9	10329.4	10368.2	10400.4	10400.4	10452.1	10355.2
17.5°	11465.7	11465.7	11330.1	10981.5	10652.2	10484.4	10445.6	10342.3	10251.9	10239.0	10232.6
20°	11827.2	11717.4	11407.6	10975.0	10639.3	10561.8	10271.3	10026.0	9838.8	9774.2	9767.8
22.5°	12240.4	11962.8	11530.2	10987.9	10619.9	10510.2	9967.9	9599.9	9264.2	9122.2	9141.5
25°	12621.3	12175.8	11601.2	10929.8	10548.9	10019.5	9412.7	8902.7	8554.0	8437.8	8379.7
27.5°	12885.9	12401.8	11601.2	10981.5	10284.2	9470.8	8851.0	8199.0	7895.5	7818.1	7831.0
30°	13241.0	12685.8	11801.4	10871.7	9754.8	8760.6	8018.2	7592.1	7411.4	7346.8	7392.0
32.5°	14073.8	13428.2	12079.0	10607.0	9128.6	8050.5	7450.1	7211.2	6946.5	6817.4	6772.2
35°	14977.7	14131.9	12350.1	10161.6	8424.9	7404.9	7030.5	6811.0	6494.6	6352.6	6378.4
37.5°	16255.9	15035.8	12369.5	9425.6	7663.1	7043.4	6701.2	6359.0	6100.8	5881.3	5816.8
40°	17979.6	16268.8	12324.3	8650.9	7049.8	6617.3	6365.5	5939.4	5648.9	5494.0	5526.2
42.5°	19496.8	17715.0	12137.1	7772.9	6494.6	6326.8	6042.7	5623.1	5339.0	5177.6	5164.7
45°	20775.0	18780.2	11782.0	7024.0	6029.8	6004.0	5674.7	5351.9	5126.0	4977.5	5042.0
47.5°	21956.5	19638.8	11246.2	6275.1	5603.7	5655.4	5339.0	5138.9	4996.9	4861.3	4854.8
50°	22382.6	19625.9	10774.9	5655.4	5261.5	5235.7	5222.8	5009.8	4861.3	4745.1	4796.7
52.5°	23092.7	19845.4	10264.9	5229.3	4951.7	4958.1	5003.3	4848.4	4680.5	4609.5	4674.1
55°	24112.7	19877.7	9141.5	4732.2	4693.4	4738.6	4738.6	4635.3	4493.3	4435.2	4402.9
56°	23279.9	18915.7	8199.0	4603.0	4564.3	4564.3	4687.0	4570.8	4396.5	4351.3	4312.5
57.5°	21472.3	16572.3	6862.6	4448.1	4390.0	4480.4	4544.9	4422.3	4260.9	4196.3	4235.1
60°	14809.8	11213.9	5158.3	4112.4	4112.4	4260.9	4312.5	4131.8	4060.8	4054.3	4002.6
62.5°	8644.4	6533.4	4034.9	3809.0	3821.9	3944.5	3983.3	3880.0	3789.6	3899.4	3951.0
65°	4583.7	3899.4	3460.4	3486.2	3492.6	3589.5	3757.3	3750.9	3744.4	3776.7	3783.1
67.5°	3318.3	3240.9	3144.0	3118.2	3131.1	3202.1	3370.0	3499.1	3492.6	3415.2	3357.1
70°	2956.8	2847.0	2788.9	2795.4	2743.8	2827.7	2963.3	3047.2	2898.7	2808.3	2769.6
72.5°	2459.7	2427.4	2388.7	2395.1	2291.8	2272.5	2117.5	2117.5	2078.8	2053.0	2098.2
75°	1878.7	1865.8	1885.1	1852.8	1743.1	1626.9	1536.5	1452.6	1323.5	1271.8	1246.0
77.5°	1187.9	1226.6	1271.8	1200.8	1155.6	1071.7	981.3	897.4	794.1	736.0	736.0
80°	807.0	839.3	871.5	858.6	807.0	729.5	658.5	568.1	497.1	451.9	445.5
82.5°	613.3	639.1	684.3	632.7	581.0	516.5	458.4	393.8	329.3	277.6	277.6
85°	219.5	251.8	277.6	303.4	322.8	329.3	284.1	232.4	187.2	148.5	142.0
87.5°	58.1	64.6	71.0	64.6	64.6	64.6	71.0	64.6	58.1	45.2	45.2
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)