

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: P532456

Luminaire Tested: **GALN-SA7D-740-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532456
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-SA7D-740-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA 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: 45939 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

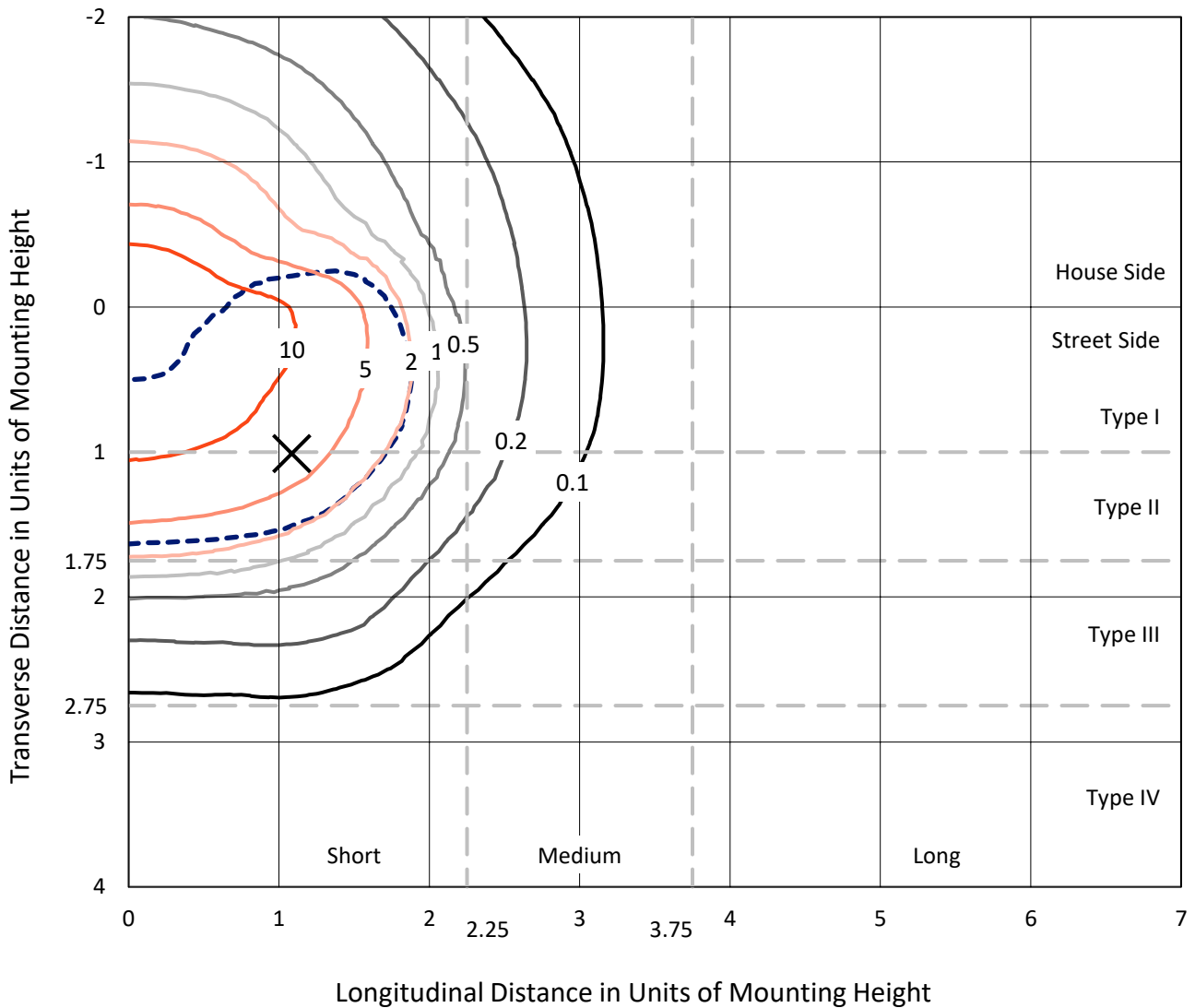
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

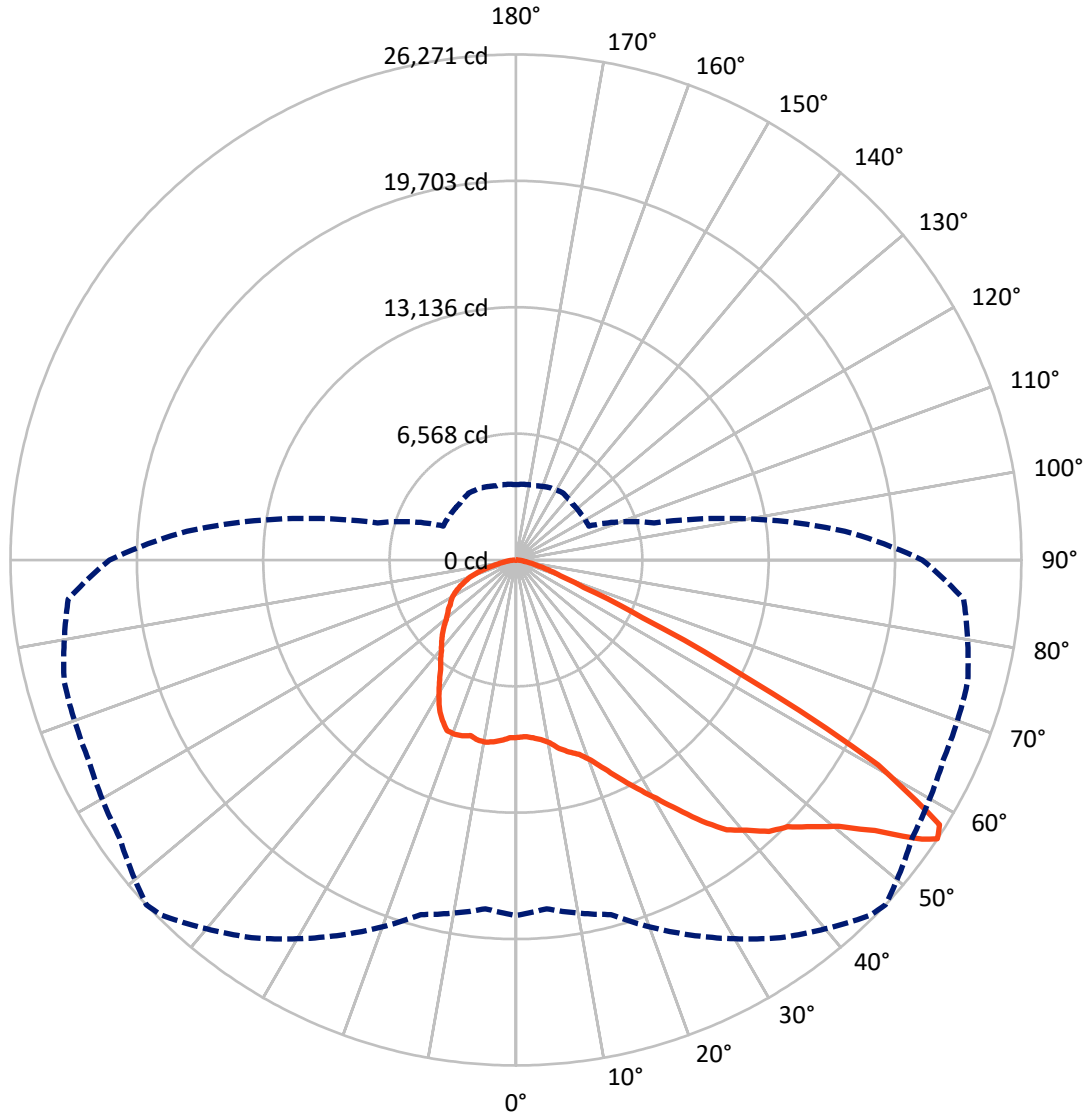
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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	14557.5	0.0	14557.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	31381.5	0.0	31381.5
	% Fixture	68.3	0.0	68.3
Total	Lumens	45939.0	0.0	45939.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	899.1	2.0
10°-20°	2836.3	6.2
20°-30°	5013.8	10.9
30°-40°	7530.6	16.4
40°-50°	10335.1	22.5
50°-60°	12312.8	26.8
60°-70°	5269.2	11.5
70°-80°	1491.2	3.2
80°-90°	250.9	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°	45939.0	100.0
0°-180°	45939.0	100.0

Coefficient of Utilization



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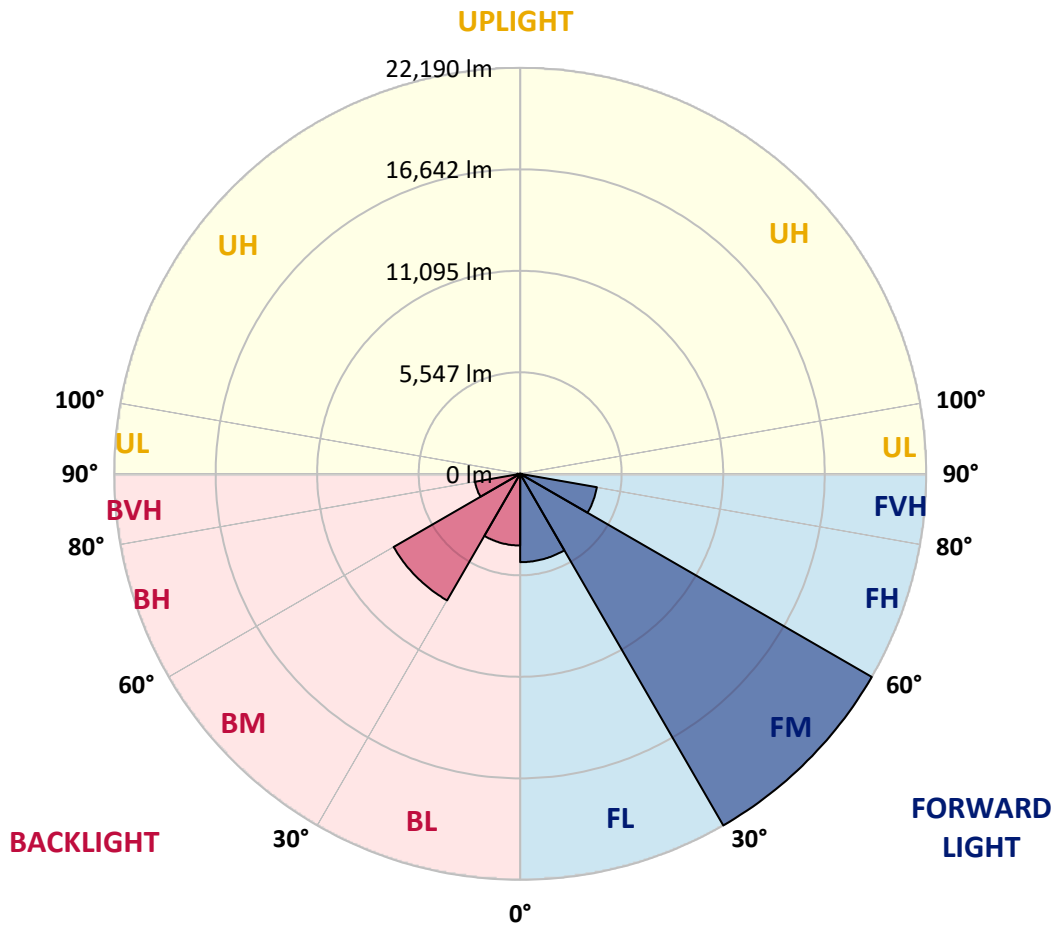
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4829.8	10.5			
FM (30°-60°)	22189.6	48.3			
FH (60°-80°)	4255.6	9.3			G2/5000
FVH (80°-90°)	106.5	0.2			G2/225
BL (0°-30°)	3919.5	8.5	B4/5000		
BM (30°-60°)	7988.9	17.4	B4/8500		
BH (60°-80°)	2504.7	5.5	B4/5000		G4/5000
BVH (80°-90°)	144.4	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	9227.7	9227.7	9227.7	9227.7	9227.7	9227.7	9227.7	9227.7	9227.7	9227.7	9227.7
2.5°	9192.6	9175.0	9163.3	9257.0	9221.9	9227.7	9192.6	9227.7	9251.2	9198.5	9274.6
5°	9175.0	9227.7	9180.9	9210.2	9286.3	9262.9	9286.3	9356.6	9339.1	9321.5	9298.1
7.5°	9339.1	9344.9	9380.1	9391.8	9415.2	9391.8	9427.0	9491.4	9473.8	9374.2	9385.9
10°	9573.4	9585.1	9591.0	9655.4	9696.5	9702.3	9661.3	9602.7	9596.9	9731.6	9637.9
12.5°	9842.9	9813.6	9883.9	9907.4	9954.3	10007.0	10059.7	9936.7	10012.8	10018.7	9907.4
15°	10235.5	10264.8	10182.7	10182.7	10200.3	10206.2	10352.7	10294.1	10282.3	10217.9	10264.8
17.5°	10821.4	10622.2	10616.3	10534.3	10522.6	10569.4	10622.2	10669.0	10827.2	10698.3	10446.4
20°	11249.1	11295.9	11126.0	11026.4	11044.0	11149.5	11096.7	11307.7	11419.0	11208.1	10962.0
22.5°	12004.9	11846.7	11887.7	11665.0	11682.6	11793.9	11788.1	12004.9	12069.3	11735.4	11378.0
25°	12514.6	12473.6	12508.7	12333.0	12356.4	12444.3	12584.9	12942.3	12836.8	12467.7	11641.6
27.5°	13258.7	13176.6	13147.3	13082.9	13059.5	13293.8	13457.9	13838.7	13762.5	13223.5	12110.3
30°	14020.3	13967.6	13996.9	13733.2	13827.0	14325.0	14371.9	14893.3	14858.1	13909.0	12631.8
32.5°	14547.6	14576.9	14629.6	14483.2	14899.2	15297.6	15455.7	16047.5	16076.8	15086.6	13639.5
35°	15397.2	15297.6	15326.9	15496.8	15690.1	16416.6	16674.4	17066.9	17313.0	16322.9	14606.2
37.5°	15930.3	16035.8	15912.7	16182.3	16686.1	17559.1	17793.4	18197.7	18455.5	17541.5	15924.5
40°	16762.3	16592.4	16680.3	16873.6	17389.2	18525.8	18461.4	18877.3	18959.4	18578.5	17154.8
42.5°	17658.7	17576.7	17453.6	17893.0	18326.6	19152.7	19281.6	19088.3	19504.2	19592.1	18912.5
45°	18730.9	18830.5	18848.0	18859.8	19240.6	19961.2	19785.5	19615.6	20096.0	20734.6	20002.2
47.5°	19726.9	19410.5	19639.0	19955.4	20494.4	20500.3	20705.3	20301.0	20810.8	21379.1	20986.5
50°	20060.8	19908.5	20213.2	20810.8	21642.7	21730.6	21754.1	21179.9	21443.5	21894.7	21326.4
52.5°	19931.9	19879.2	20658.4	21584.1	22802.8	23248.1	23365.2	22656.3	22802.8	22597.7	22076.3
55°	19316.8	19474.9	20260.0	22146.6	24015.6	25392.4	25615.1	24718.7	23787.1	23945.3	23371.1
56°	18473.1	18197.7	19076.5	21508.0	23962.9	26089.6	26271.3	25152.2	24519.4	24314.4	23359.4
57.5°	15672.5	15315.1	16469.3	19351.9	22632.9	25826.0	25960.7	25333.8	24396.4	23980.4	21654.5
60°	9175.0	9350.8	10815.5	13346.5	17459.5	21174.0	21625.2	22082.2	21455.2	19592.1	16117.8
62.5°	4429.3	4318.0	5366.7	7651.7	10639.7	13516.5	13381.7	14664.8	15367.9	13920.7	10176.9
65°	2320.1	2308.4	2929.4	4177.4	5847.2	7101.0	7224.0	7915.4	8882.1	7171.3	5167.5
67.5°	1704.9	1751.8	2062.3	2935.3	3761.4	3837.6	3820.0	4165.7	4259.4	3603.2	3175.5
70°	1335.8	1359.3	1587.8	2232.2	2800.5	2507.6	2454.9	2495.9	2771.3	2888.4	2747.8
72.5°	966.7	990.2	1183.5	1505.7	1751.8	1710.8	1745.9	1974.4	2314.3	2437.3	2290.8
75°	644.5	662.1	767.5	919.8	1037.0	1119.0	1183.5	1447.1	1763.5	1833.8	1763.5
77.5°	445.3	462.9	533.2	650.3	662.1	714.8	738.2	861.3	1054.6	1142.5	1095.6
80°	251.9	251.9	287.1	334.0	410.1	480.4	492.1	591.7	679.6	738.2	749.9
82.5°	117.2	123.0	152.3	205.1	269.5	334.0	345.7	410.1	474.6	533.2	550.7
85°	58.6	64.4	87.9	123.0	164.0	199.2	193.3	199.2	210.9	199.2	205.1
87.5°	17.6	17.6	23.4	29.3	23.4	29.3	29.3	35.2	41.0	46.9	52.7
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°	9227.7	9227.7	9227.7	9227.7	9227.7	9227.7	9227.7	9227.7	9227.7	9227.7	9227.7
2.5°	9280.5	9298.1	9180.9	9292.2	9251.2	9245.3	9327.4	9315.6	9344.9	9333.2	9262.9
5°	9286.3	9245.3	9368.4	9257.0	9309.8	9421.1	9344.9	9520.7	9432.8	9491.4	9362.5
7.5°	9468.0	9479.7	9456.2	9503.1	9479.7	9532.4	9491.4	9532.4	9462.1	9468.0	9585.1
10°	9626.2	9591.0	9632.0	9573.4	9614.4	9596.9	9503.1	9473.8	9497.3	9468.0	9544.1
12.5°	9919.1	9854.7	9825.4	9755.0	9708.2	9532.4	9385.9	9303.9	9415.2	9432.8	9397.7
15°	10217.9	10223.8	10089.0	9930.8	9637.9	9374.2	9409.4	9438.7	9438.7	9485.5	9397.7
17.5°	10405.4	10405.4	10282.3	9966.0	9667.2	9514.8	9479.7	9385.9	9303.9	9292.2	9286.3
20°	10733.5	10633.9	10352.7	9960.1	9655.4	9585.1	9321.5	9098.9	8928.9	8870.4	8864.5
22.5°	11108.5	10856.5	10464.0	9971.8	9637.9	9538.3	9046.1	8712.2	8407.5	8278.6	8296.2
25°	11454.1	11049.9	10528.4	9919.1	9573.4	9093.0	8542.3	8079.4	7763.0	7657.6	7604.8
27.5°	11694.3	11254.9	10528.4	9966.0	9333.2	8595.0	8032.5	7440.8	7165.4	7095.1	7106.8
30°	12016.6	11512.7	10710.0	9866.4	8852.8	7950.5	7276.7	6890.1	6726.0	6667.4	6708.4
32.5°	12772.4	12186.5	10962.0	9626.2	8284.5	7306.0	6761.2	6544.4	6304.2	6187.0	6146.0
35°	13592.6	12825.1	11208.1	9221.9	7645.8	6720.1	6380.3	6181.1	5894.0	5765.1	5788.6
37.5°	14752.7	13645.4	11225.6	8554.0	6954.5	6392.0	6081.5	5771.0	5536.6	5337.4	5278.9
40°	16317.0	14764.4	11184.6	7850.9	6397.9	6005.4	5776.9	5390.2	5126.5	4985.9	5015.2
42.5°	17693.8	16076.8	11014.7	7054.1	5894.0	5741.7	5483.9	5103.1	4845.3	4698.8	4687.1
45°	18853.9	17043.5	10692.5	6374.5	5472.2	5448.8	5150.0	4857.0	4652.0	4517.2	4575.8
47.5°	19926.1	17822.7	10206.2	5694.8	5085.5	5132.4	4845.3	4663.7	4534.8	4411.7	4405.9
50°	20312.8	17811.0	9778.5	5132.4	4775.0	4751.6	4739.8	4546.5	4411.7	4306.3	4353.2
52.5°	20957.2	18010.2	9315.6	4745.7	4493.8	4499.6	4540.6	4400.0	4247.7	4183.2	4241.8
55°	21882.9	18039.5	8296.2	4294.6	4259.4	4300.4	4300.4	4206.7	4077.8	4025.1	3995.8
56°	21127.2	17166.5	7440.8	4177.4	4142.2	4142.2	4253.6	4148.1	3989.9	3948.9	3913.7
57.5°	19486.7	15039.8	6228.0	4036.8	3984.0	4066.1	4124.7	4013.3	3866.9	3808.3	3843.4
60°	13440.3	10176.9	4681.3	3732.1	3732.1	3866.9	3913.7	3749.7	3685.2	3679.4	3632.5
62.5°	7845.1	5929.2	3661.8	3456.7	3468.5	3579.8	3614.9	3521.2	3439.2	3538.8	3585.6
65°	4159.8	3538.8	3140.4	3163.8	3169.7	3257.5	3409.9	3404.0	3398.2	3427.4	3433.3
67.5°	3011.5	2941.2	2853.3	2829.8	2841.6	2906.0	3058.3	3175.5	3169.7	3099.4	3046.6
70°	2683.4	2583.8	2531.0	2536.9	2490.0	2566.2	2689.2	2765.4	2630.6	2548.6	2513.5
72.5°	2232.2	2202.9	2167.8	2173.6	2079.9	2062.3	1921.7	1921.7	1886.6	1863.1	1904.1
75°	1704.9	1693.2	1710.8	1681.5	1581.9	1476.4	1394.4	1318.2	1201.1	1154.2	1130.8
77.5°	1078.0	1113.2	1154.2	1089.8	1048.7	972.6	890.6	814.4	720.6	667.9	667.9
80°	732.4	761.7	790.9	779.2	732.4	662.1	597.6	515.6	451.1	410.1	404.3
82.5°	556.6	580.0	621.0	574.2	527.3	468.7	416.0	357.4	298.8	251.9	251.9
85°	199.2	228.5	251.9	275.4	292.9	298.8	257.8	210.9	169.9	134.8	128.9
87.5°	52.7	58.6	64.4	58.6	58.6	58.6	64.4	58.6	52.7	41.0	41.0
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)