

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: P534330

Luminaire Tested: **GALN-SA9D-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534330  
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-SA9D-740-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 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: 61220 lumens  
Efficiency: N/A  
Efficacy: 110.9 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

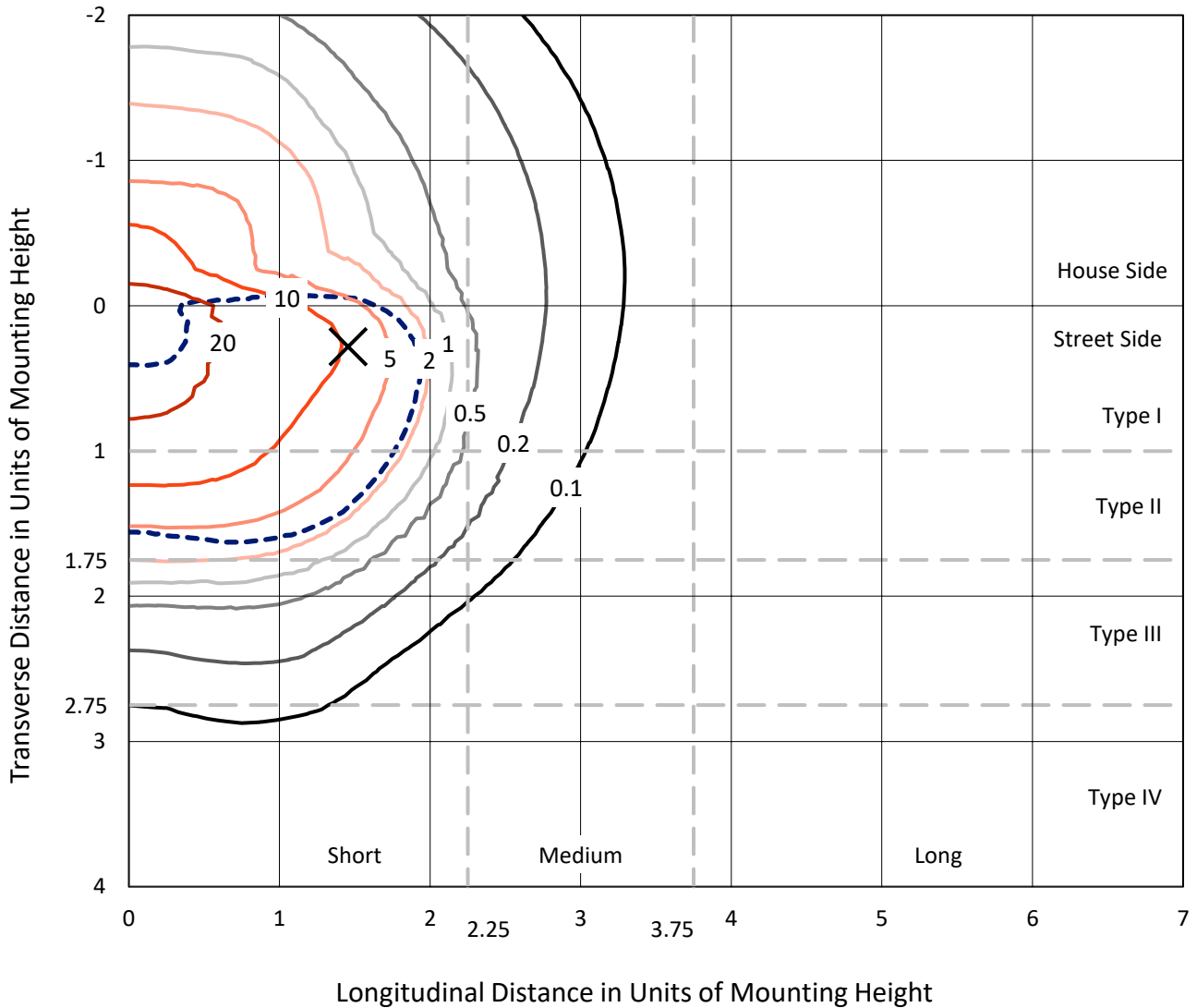
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

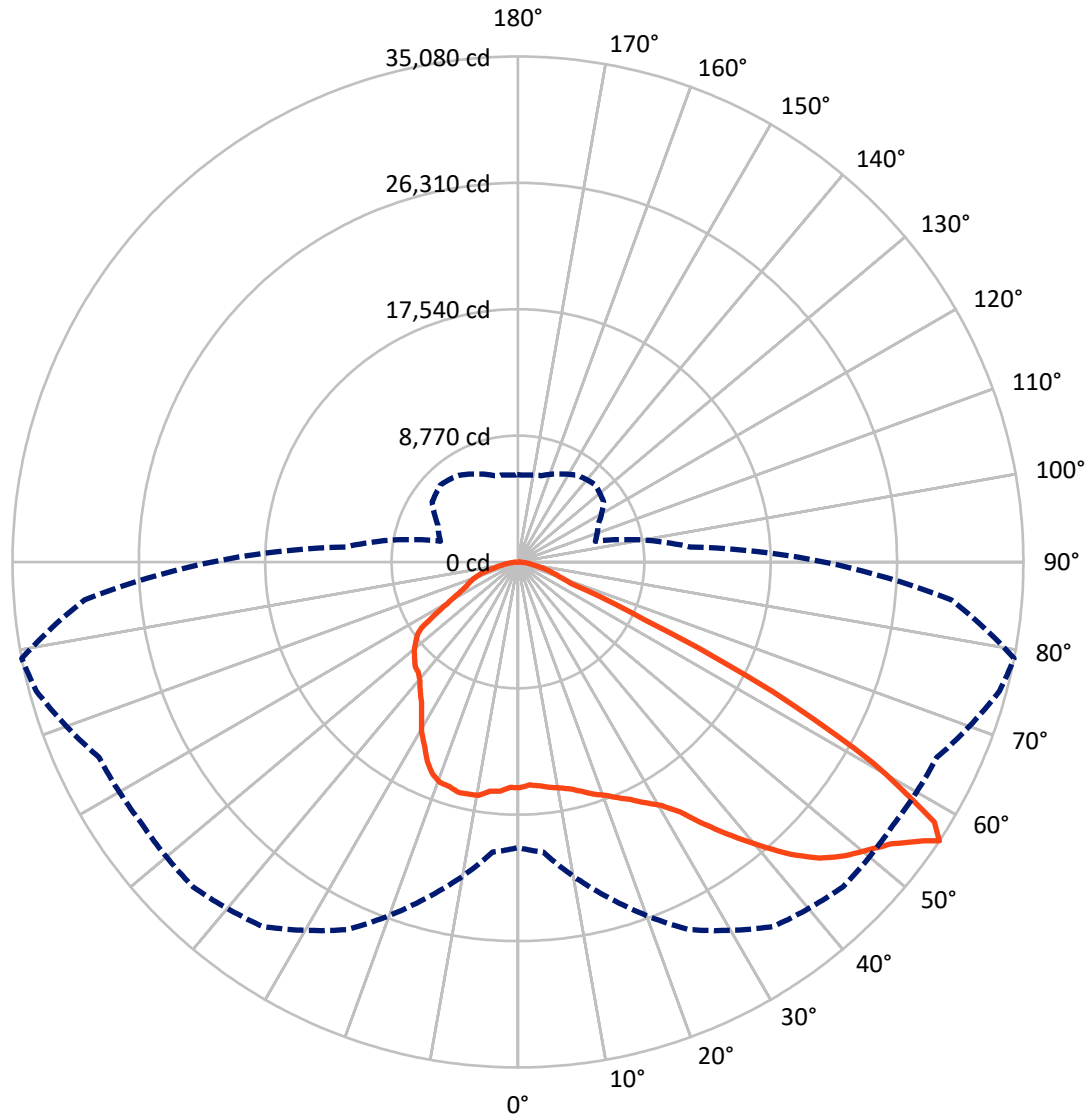
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.1 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
<b>House Side</b>	Lumens	18079.6	0.0	18079.6
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	43140.4	0.0	43140.4
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	61220.0	0.0	61220.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1424.1	2.3
10°-20°	3897.5	6.4
20°-30°	6667.8	10.9
30°-40°	10219.2	16.7
40°-50°	13811.2	22.6
50°-60°	15862.7	25.9
60°-70°	7230.7	11.8
70°-80°	1782.7	2.9
80°-90°	324.0	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°	61220.0	100.0
0°-180°	61220.0	100.0

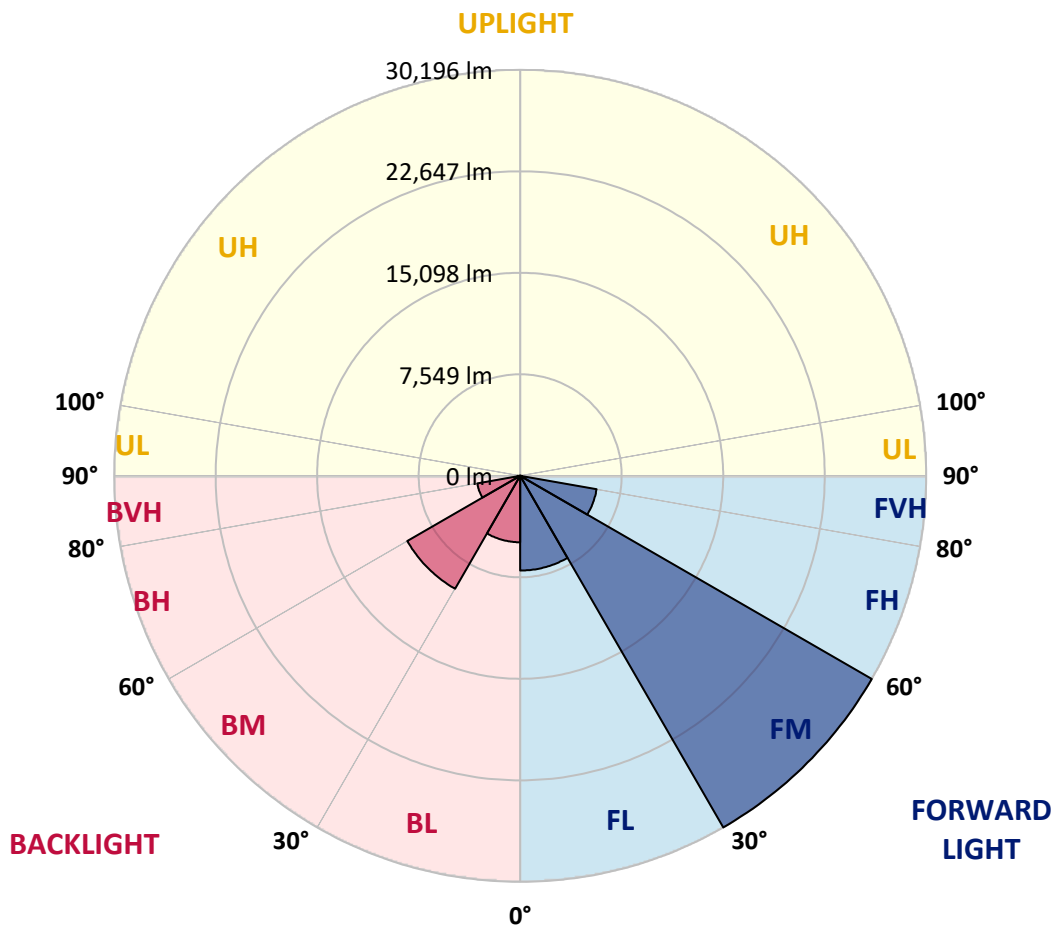


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7043.9	11.5			
FM (30°-60°)	30195.5	49.3			
FH (60°-80°)	5771.6	9.4			G3/7500
FVH (80°-90°)	129.4	0.2			G2/225
BL (0°-30°)	4945.6	8.1	B4/5000		
BM (30°-60°)	9697.7	15.8	B5		
BH (60°-80°)	3241.8	5.3	B4/5000		G4/5000
BVH (80°-90°)	194.6	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°	55°	65°	75°	79°	85°
0°	15663.8	15663.8	15663.8	15663.8	15663.8	15663.8	15663.8	15663.8	15663.8	15663.8	15663.8
2.5°	14901.2	14863.0	14954.6	15023.2	15107.1	15213.8	15267.2	15297.7	15564.6	15496.0	15701.9
5°	14580.9	14481.7	14550.4	14603.8	14748.7	14878.3	15023.2	15252.0	15496.0	15602.8	15854.4
7.5°	14298.7	14245.3	14230.1	14268.2	14466.5	14634.3	14885.9	15221.5	15618.0	15793.4	15938.3
10°	13833.5	13757.3	13871.7	14123.3	14176.7	14527.5	14817.3	15297.7	15640.9	15945.9	16373.0
12.5°	13627.6	13551.4	13574.3	13719.1	14092.8	14428.4	14771.5	15313.0	16037.4	16159.5	16731.4
15°	13955.6	13879.3	13902.2	13864.0	14222.5	14397.9	14939.3	15618.0	16312.0	16517.9	17128.0
17.5°	14702.9	14710.5	14611.4	14527.5	14443.6	14817.3	15191.0	15801.0	16418.7	16937.3	17394.9
20°	16129.0	15877.3	15679.0	15206.2	15076.6	15236.7	15709.5	16296.7	16853.4	17280.5	17799.0
22.5°	17227.1	17250.0	16967.8	16190.0	15907.8	15976.4	16380.6	16861.1	17471.1	17776.2	18371.0
25°	18820.9	18660.8	18355.7	17738.0	17105.1	17158.5	17455.9	17890.6	18058.3	18271.9	18920.1
27.5°	20277.5	20323.3	19720.8	19141.2	18355.7	18203.2	18737.0	18813.3	18531.1	18935.3	19156.5
30°	21756.9	21718.8	21322.3	20643.5	19873.3	19903.8	20140.2	19766.6	19377.6	19598.8	19751.3
32.5°	23289.8	22855.1	22839.8	22229.7	21642.5	21360.4	21070.6	21253.6	20651.2	20696.9	20552.0
35°	24517.5	24578.6	24227.8	23793.1	23503.3	23007.6	22214.5	22542.4	22428.0	22374.6	21749.3
37.5°	25409.8	25173.4	25348.8	25203.9	24929.3	24311.6	23488.0	23800.7	23854.1	24113.4	23388.9
40°	26141.9	26042.7	26507.9	26584.2	26393.5	25059.0	23579.5	24509.9	25310.6	25875.0	25013.2
42.5°	26492.7	26706.2	27194.3	27781.5	27354.4	25928.3	24052.4	25051.4	26835.8	27728.1	26553.7
45°	26965.5	26690.9	27415.4	28490.7	28498.3	26660.4	24509.9	25783.5	28025.5	29321.9	27606.1
47.5°	26485.0	26622.3	27369.7	28734.7	29085.5	27430.7	25745.3	26820.6	29337.2	30488.7	28582.2
50°	25409.8	25684.3	27049.4	28467.8	29527.8	28246.6	27163.8	27941.6	30549.7	31426.7	28742.3
52.5°	24288.8	24441.3	26576.6	28673.7	29726.1	29299.0	29062.6	29489.7	32029.1	32486.7	28940.6
55°	21238.4	21962.8	25013.2	28582.2	30694.6	31197.9	31014.9	31640.2	33706.9	34164.4	30023.5
56°	19827.6	20208.9	24075.2	28155.1	30885.2	31891.9	31800.4	32082.5	34599.1	35079.5	30191.3
57.5°	17219.5	17250.0	20529.2	26263.9	30168.4	32097.8	32006.3	32227.4	34423.7	34095.8	28719.5
60°	10775.5	11248.3	13970.8	20201.2	25653.8	29779.5	30298.0	28521.2	29024.5	28330.5	22344.1
62.5°	5582.2	5513.6	7320.9	11812.7	17028.8	21322.3	21802.7	21718.8	20941.0	19926.7	14596.1
65°	2783.5	2798.7	3828.2	5849.1	8724.1	11164.4	12506.6	12651.5	10584.9	9738.4	6924.4
67.5°	2020.9	2097.1	2753.0	3576.6	4110.4	4598.5	5635.6	5528.8	4186.7	3980.8	3691.0
70°	1571.0	1639.6	2234.4	2730.1	2478.4	2478.4	2699.6	2791.1	2981.8	3065.6	3164.8
72.5°	1143.9	1197.3	1708.2	1883.6	1624.3	1746.4	2020.9	2234.4	2432.7	2463.2	2577.6
75°	785.5	831.2	1121.0	1037.1	976.1	1204.9	1479.4	1677.7	1822.6	1898.9	1967.5
77.5°	510.9	526.2	640.6	541.4	625.3	777.9	960.9	1128.6	1273.5	1334.5	1349.8
80°	228.8	251.7	274.5	343.2	434.7	556.7	686.3	823.6	915.1	938.0	983.8
82.5°	129.6	129.6	167.8	244.0	320.3	404.2	495.7	594.8	701.6	724.5	716.8
85°	68.6	68.6	99.1	144.9	198.3	236.4	228.8	236.4	251.7	289.8	282.2
87.5°	22.9	22.9	30.5	30.5	38.1	45.8	38.1	53.4	68.6	68.6	68.6
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°	15663.8	15663.8	15663.8	15663.8	15663.8	15663.8	15663.8	15663.8	15663.8	15663.8	15663.8
2.5°	15640.9	15709.5	15618.0	15816.3	15816.3	15778.2	15587.5	15648.5	15694.3	15694.3	15732.4
5°	15938.3	15915.4	15976.4	15740.0	15595.1	15541.8	15229.1	15076.6	14946.9	14939.3	14824.9
7.5°	16106.1	16045.1	16022.2	15846.8	15206.2	14817.3	14146.2	13757.3	13673.4	13376.0	13490.4
10°	16373.0	16487.4	16373.0	15419.7	14527.5	13635.3	12979.4	12377.0	12140.6	11949.9	11835.5
12.5°	16922.1	16868.7	16205.2	14916.4	13665.8	12605.8	11629.6	10996.7	10760.3	10592.5	10577.2
15°	17387.2	17120.3	16106.1	14123.3	12323.6	11194.9	10394.2	9944.3	9837.5	9852.8	9921.4
17.5°	17547.4	17364.4	15587.5	13299.7	11324.6	9997.7	9624.0	9555.4	9654.5	9768.9	9799.4
20°	17799.0	17509.3	15374.0	12178.7	10089.2	9250.3	9227.4	9471.5	9654.5	9822.3	9845.1
22.5°	18325.2	17593.1	14680.0	11118.7	9242.7	9029.2	9250.3	9456.2	9738.4	9875.7	9753.6
25°	18477.8	17410.1	13703.9	9845.1	8708.9	8891.9	9128.3	9410.5	9608.7	9685.0	9738.4
27.5°	18607.4	17128.0	12384.6	8998.7	8541.1	8884.3	9128.3	9364.7	9471.5	9540.1	9601.1
30°	18973.5	17044.1	11240.7	8434.3	8434.3	8731.8	9044.4	9105.4	9250.3	9334.2	9441.0
32.5°	19156.5	16464.5	10066.3	8075.9	8327.6	8808.0	8830.9	8945.3	8952.9	9021.5	8907.2
35°	19636.9	16052.7	8975.8	7816.6	8373.3	8731.8	8846.1	8777.5	8403.8	8220.8	8258.9
37.5°	19987.7	15846.8	8190.3	7786.1	8381.0	8815.6	8876.6	8358.1	7969.2	7664.1	7740.4
40°	20933.3	15335.9	7595.5	7732.7	8449.6	8907.2	8739.4	8175.1	7473.5	7160.8	7107.4
42.5°	21657.8	14969.8	7221.8	7671.7	8503.0	9036.8	8670.7	7809.0	7092.2	6802.4	6878.6
45°	22496.7	14885.9	7023.5	7687.0	8594.5	9105.4	8586.9	7526.8	6764.2	6649.9	6627.0
47.5°	22794.1	14283.5	6810.0	7557.4	8571.6	9082.5	8304.7	7313.3	6642.2	6657.5	6718.5
50°	22298.4	13665.8	6649.9	7290.4	8419.1	8876.6	7862.4	7031.2	6573.6	6764.2	6871.0
52.5°	21665.4	13032.8	6321.9	6932.0	8106.4	8556.4	7656.5	7015.9	6505.0	6444.0	6466.8
55°	21856.1	12514.2	5864.4	6444.0	7603.1	7961.5	7427.7	6871.0	6337.2	6108.4	6184.7
56°	21238.4	11980.4	5567.0	6138.9	7259.9	7580.2	7313.3	6741.4	6199.9	6047.4	6047.4
57.5°	19492.0	10188.3	5178.0	5650.9	6535.5	6916.8	7092.2	6665.1	6047.4	5780.5	5788.1
60°	14375.0	7244.7	4644.2	4979.8	5414.4	5719.5	6535.5	6451.6	5666.1	5483.1	5414.4
62.5°	8861.4	5292.4	4262.9	4392.6	4613.7	4865.4	5704.2	5841.5	5261.9	5063.7	5017.9
65°	4964.5	4049.4	3973.1	4026.5	4133.3	4262.9	4735.7	5040.8	4644.2	4339.2	4323.9
67.5°	3630.0	3622.3	3683.4	3729.1	3774.9	3774.9	3889.3	4011.3	3957.9	3713.9	3691.0
70°	3225.8	3248.7	3294.4	3302.1	3317.3	3263.9	3172.4	3134.3	3195.3	3042.8	3012.3
72.5°	2661.5	2737.7	2791.1	2798.7	2714.9	2646.2	2524.2	2394.6	2348.8	2318.3	2310.7
75°	2043.8	2097.1	2120.0	2112.4	2081.9	1982.8	1837.9	1708.2	1624.3	1532.8	1578.6
77.5°	1380.3	1456.6	1494.7	1494.7	1448.9	1296.4	1227.8	1128.6	1044.8	945.6	960.9
80°	968.5	1021.9	1082.9	1075.3	999.0	922.7	823.6	732.1	663.5	587.2	579.6
82.5°	724.5	755.0	785.5	770.2	716.8	640.6	571.9	488.1	411.8	358.4	358.4
85°	259.3	282.2	343.2	358.4	388.9	388.9	327.9	274.5	221.2	183.0	183.0
87.5°	76.3	76.3	83.9	83.9	76.3	83.9	68.6	76.3	83.9	53.4	53.4
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)