

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: P528708

Luminaire Tested: **GALN-SA3D-740-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528708  
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-SA3D-740-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1200mA 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: 19370 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

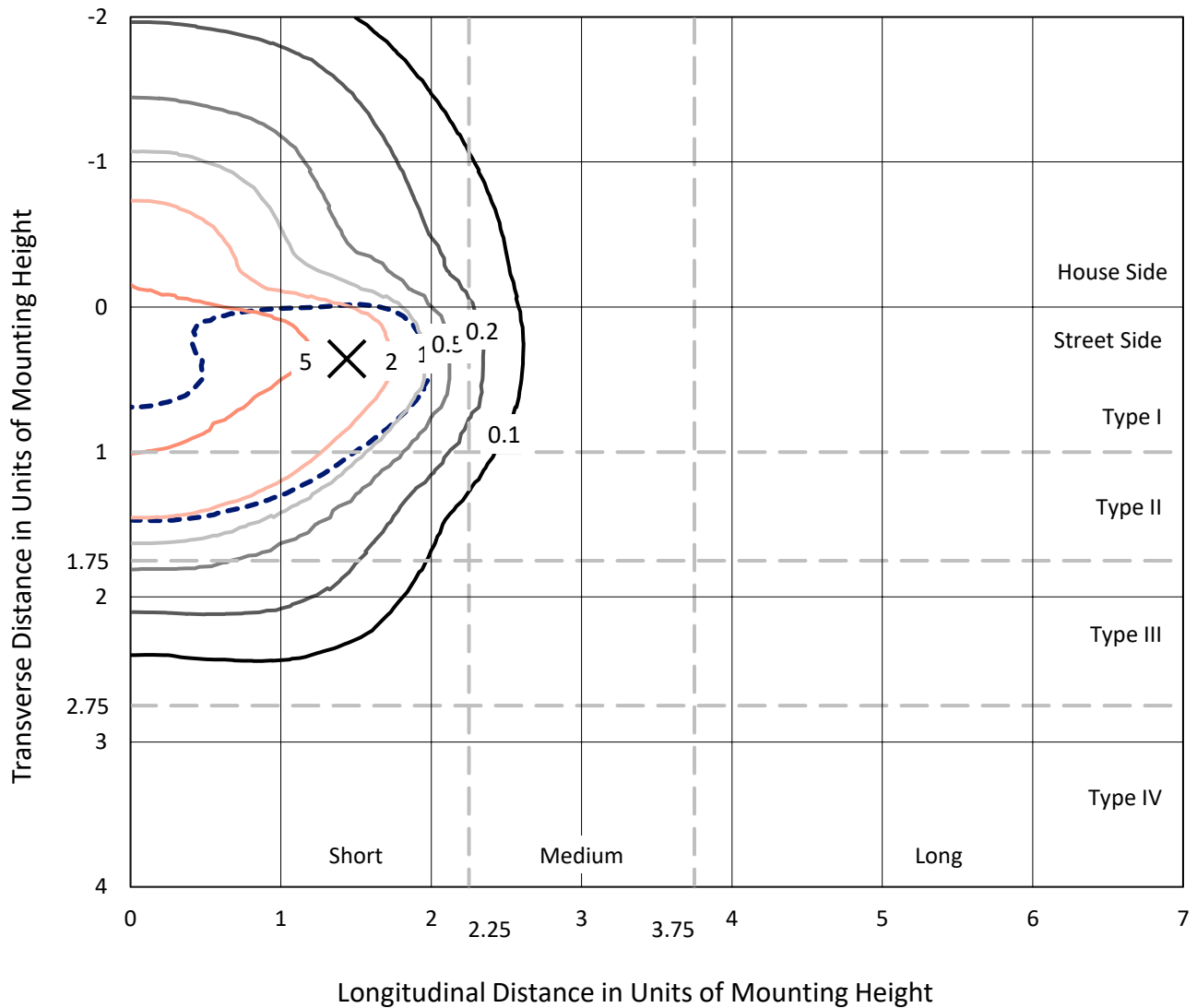
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

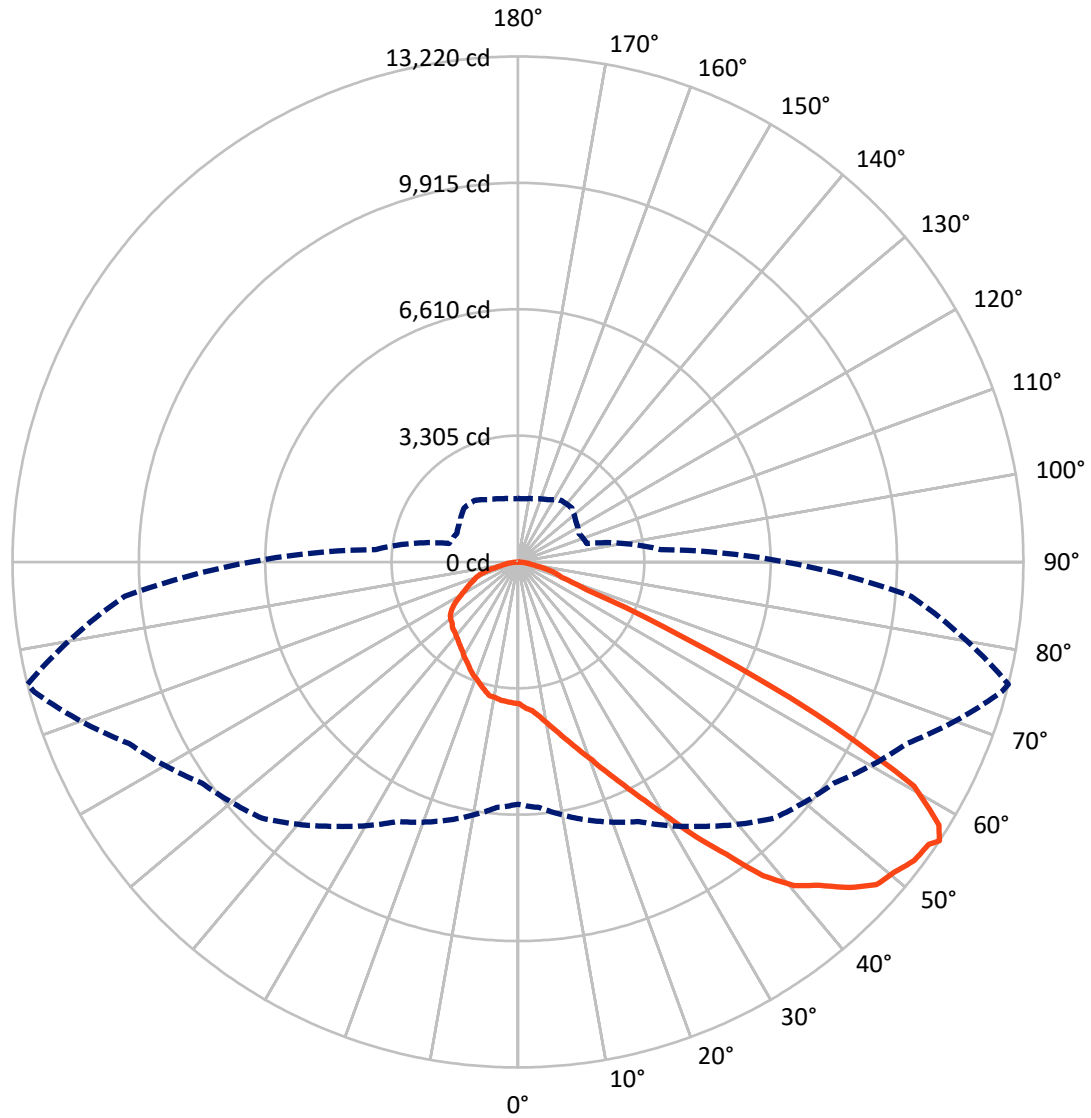
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Short - N/A

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### 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
<b>House Side</b>	Lumens	5208.0	0.0	5208.0
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	14162.0	0.0	14162.0
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	19370.0	0.0	19370.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.5	1.9
10°-20°	1154.6	6.0
20°-30°	2019.2	10.4
30°-40°	3161.5	16.3
40°-50°	4599.0	23.7
50°-60°	5054.6	26.1
60°-70°	2256.2	11.6
70°-80°	651.7	3.4
80°-90°	105.7	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°	19370.0	100.0
0°-180°	19370.0	100.0

**Coefficient of Utilization**



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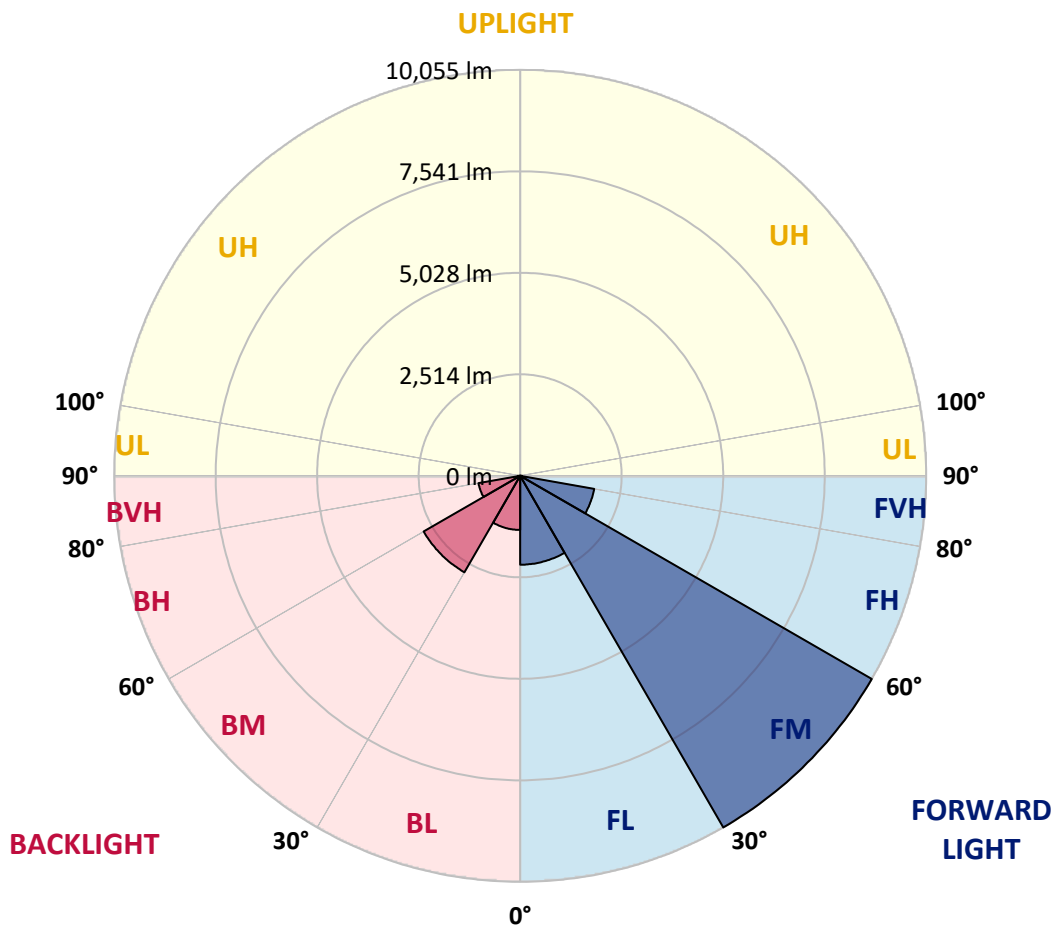
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2201.2	11.4			
FM (30°-60°)	10055.3	51.9			
FH (60°-80°)	1860.0	9.6			G2/5000
FVH (80°-90°)	45.5	0.2			G1/100
BL (0°-30°)	1340.1	6.9	B3/2500		
BM (30°-60°)	2759.8	14.2	B3/5000		
BH (60°-80°)	1047.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	60.2	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°	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2
2.5°	4082.8	4017.6	4012.5	3995.0	4005.0	3959.8	3912.1	3849.3	3784.0	3824.2	3728.8
5°	4369.1	4281.2	4316.4	4256.1	4263.6	4203.4	4105.4	4032.6	3952.3	3904.6	3836.8
7.5°	4469.5	4477.1	4502.2	4492.1	4441.9	4441.9	4376.6	4248.6	4108.0	4080.3	3967.3
10°	4605.1	4607.6	4580.0	4587.6	4657.9	4625.2	4567.5	4512.2	4331.4	4298.8	4097.9
12.5°	4652.8	4607.6	4652.8	4693.0	4775.9	4821.1	4808.5	4768.3	4575.0	4552.4	4258.6
15°	4660.4	4632.8	4670.4	4760.8	4833.6	5024.5	5119.9	5092.3	4836.1	4838.7	4439.4
17.5°	4625.2	4662.9	4677.9	4755.8	4924.0	5102.3	5378.5	5416.2	5205.3	5172.6	4667.9
20°	4672.9	4645.3	4665.4	4735.7	4959.2	5237.9	5599.5	5848.1	5551.8	5529.2	4903.9
22.5°	4856.2	4818.6	4813.5	4858.7	5019.4	5308.2	5833.0	6280.0	5973.6	5986.2	5197.7
25°	4999.4	5019.4	5001.9	4999.4	5099.8	5413.7	6141.8	6794.7	6546.1	6473.3	5544.2
27.5°	5245.4	5293.1	5258.0	5305.7	5283.1	5571.9	6362.8	7364.7	7163.8	7065.9	5858.1
30°	5586.9	5612.0	5579.4	5579.4	5511.6	5792.8	6563.7	7959.8	7876.9	7743.9	6227.2
32.5°	6036.4	6074.1	6008.8	5971.1	5961.1	6121.8	6925.3	8547.4	8688.0	8575.0	6716.9
35°	6631.5	6608.9	6531.0	6495.9	6360.3	6626.5	7462.6	9222.8	9591.9	9391.1	7309.5
37.5°	7156.3	7121.1	7116.1	6920.3	6952.9	7171.3	7919.6	9735.1	10468.3	10410.5	7934.7
40°	7645.9	7678.6	7731.3	7620.8	7570.6	7811.6	8451.9	10126.8	11148.7	11126.1	8416.8
42.5°	8170.7	8140.6	8233.5	8140.6	8065.3	8406.7	9029.5	10398.0	11746.3	11560.5	8921.5
45°	8931.5	8836.1	8868.8	8876.3	8821.1	8946.6	9268.0	10593.8	12165.7	12145.6	9290.6
47.5°	9566.8	9569.3	9514.1	9471.4	9303.2	9428.7	9534.2	10716.8	12647.8	12615.1	9433.7
50°	9802.9	9770.2	9930.9	10023.8	10033.9	9777.7	9742.6	10784.6	12901.4	12758.3	9576.9
52.5°	8954.1	8984.3	9237.9	9790.3	10109.2	10136.8	9986.2	10925.3	13004.3	12974.2	9692.4
55°	7206.5	7352.1	7769.0	8406.7	9162.6	9993.7	10249.8	11070.9	13059.6	13034.5	10204.6
56°	6335.2	6448.2	6990.6	7490.2	8439.4	9473.9	10084.1	11226.6	13102.3	13220.3	10325.1
57.5°	5099.8	5230.4	5619.6	6187.0	7306.9	8484.6	9627.1	11035.7	12936.5	12981.7	10413.0
60°	3188.9	3201.5	3668.5	4042.7	4831.1	5981.1	7347.1	9602.0	11972.3	11907.0	9353.4
62.5°	2091.6	2094.2	2518.5	2824.8	3183.9	3447.6	4323.9	6367.8	8833.6	8718.1	6659.1
65°	1468.9	1501.6	1830.5	2239.8	2385.4	2247.3	2219.7	3357.2	4934.1	4768.3	3578.1
67.5°	1074.7	1077.2	1368.5	1807.9	2018.8	1710.0	1388.6	1639.7	1953.5	1948.5	1657.2
70°	710.6	740.7	964.2	1350.9	1592.0	1373.5	1135.0	1172.6	1242.9	1242.9	1232.9
72.5°	414.3	441.9	590.1	856.2	893.9	858.8	898.9	1004.4	1049.6	1047.1	1034.5
75°	236.0	248.6	281.2	356.6	444.4	524.8	660.4	760.8	806.0	833.6	801.0
77.5°	138.1	145.6	165.7	203.4	231.0	283.7	359.1	429.4	489.6	482.1	487.1
80°	72.8	72.8	92.9	120.5	160.7	200.9	238.5	278.7	311.4	318.9	326.4
82.5°	42.7	45.2	60.3	87.9	115.5	143.1	183.3	210.9	241.1	243.6	248.6
85°	22.6	25.1	37.7	57.8	77.8	87.9	90.4	85.4	92.9	87.9	100.4
87.5°	7.5	7.5	12.6	10.0	10.0	12.6	15.1	15.1	20.1	20.1	20.1
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°	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2	3706.2
2.5°	3726.3	3726.3	3683.6	3603.3	3590.7	3558.1	3527.9	3525.4	3502.8	3482.7	3472.7
5°	3796.6	3718.8	3656.0	3583.2	3497.8	3457.6	3412.4	3362.2	3342.1	3362.2	3359.7
7.5°	3876.9	3811.7	3623.3	3487.7	3389.8	3349.6	3299.4	3246.7	3251.7	3251.7	3216.6
10°	3954.8	3866.9	3565.6	3392.3	3249.2	3219.1	3191.5	3211.5	3236.6	3241.7	3219.1
12.5°	4085.4	3887.0	3538.0	3296.9	3206.5	3141.2	3158.8	3214.0	3266.8	3251.7	3269.3
15°	4183.3	3904.6	3412.4	3199.0	3086.0	3116.1	3178.9	3216.6	3304.4	3294.4	3312.0
17.5°	4278.7	3914.6	3289.4	3068.4	3020.7	3103.6	3151.3	3259.2	3286.9	3347.1	3369.7
20°	4474.6	3934.7	3163.8	2988.1	2973.0	3068.4	3151.3	3201.5	3261.8	3314.5	3314.5
22.5°	4575.0	3924.7	3081.0	2882.6	2930.3	2990.6	3065.9	3151.3	3151.3	3201.5	3204.0
25°	4700.5	3884.5	2950.4	2832.4	2867.5	2925.3	3010.7	2980.5	3013.2	3013.2	3053.3
27.5°	4843.7	3799.1	2837.4	2742.0	2812.3	2875.1	2887.6	2867.5	2829.9	2824.8	2809.8
30°	4959.2	3693.6	2754.5	2711.9	2769.6	2804.8	2764.6	2721.9	2656.6	2651.6	2616.4
32.5°	5117.4	3563.1	2651.6	2636.5	2701.8	2704.3	2691.8	2626.5	2531.1	2490.9	2450.7
35°	5383.5	3487.7	2573.8	2596.3	2616.4	2608.9	2586.3	2516.0	2420.6	2403.0	2387.9
37.5°	5579.4	3432.5	2493.4	2521.0	2538.6	2548.6	2480.8	2403.0	2405.5	2370.4	2360.3
40°	5800.4	3397.4	2428.1	2440.7	2443.2	2475.8	2393.0	2355.3	2372.9	2350.3	2365.3
42.5°	6084.1	3407.4	2360.3	2350.3	2398.0	2385.4	2345.3	2295.0	2305.1	2237.3	2247.3
45°	6234.8	3475.2	2320.1	2274.9	2327.7	2325.2	2272.4	2224.7	2164.5	2033.9	2038.9
47.5°	6335.2	3492.8	2224.7	2194.6	2249.8	2282.5	2222.2	2111.7	2026.4	1933.5	1910.9
50°	6438.1	3525.4	2179.5	2116.8	2139.4	2217.2	2141.9	2036.4	1953.5	1870.7	1883.2
52.5°	6528.5	3588.2	2091.6	1998.7	2038.9	2124.3	2084.1	1956.1	1865.7	1797.9	1777.8
55°	6930.3	3728.8	1943.5	1823.0	1918.4	2026.4	2003.8	1848.1	1750.2	1715.0	1710.0
56°	6993.1	3733.8	1865.7	1762.7	1850.6	1993.7	1966.1	1800.4	1712.5	1657.2	1659.8
57.5°	7003.1	3673.6	1755.2	1707.5	1782.8	1946.0	1910.9	1762.7	1642.2	1592.0	1576.9
60°	6161.9	2867.5	1617.1	1586.9	1674.8	1800.4	1787.8	1659.8	1524.2	1466.4	1494.0
62.5°	4200.9	2101.7	1509.1	1504.1	1549.3	1672.3	1639.7	1524.2	1411.2	1373.5	1355.9
65°	2445.7	1594.5	1403.6	1383.5	1421.2	1486.5	1509.1	1388.6	1270.6	1245.4	1237.9
67.5°	1443.8	1318.3	1268.0	1235.4	1222.8	1263.0	1280.6	1210.3	1092.3	1057.1	1087.3
70°	1207.8	1172.6	1175.1	1119.9	1089.8	1062.1	1047.1	984.3	886.4	841.2	828.6
72.5°	1042.1	1027.0	1016.9	966.7	939.1	876.3	811.0	748.3	675.5	637.8	640.3
75°	796.0	791.0	796.0	770.9	723.2	672.9	612.7	532.3	477.1	429.4	439.4
77.5°	474.6	489.6	497.2	487.1	467.0	421.8	384.2	331.4	278.7	241.1	236.0
80°	326.4	339.0	351.5	339.0	318.9	286.3	246.1	205.9	168.2	148.1	143.1
82.5°	248.6	261.1	268.7	256.1	231.0	195.9	168.2	140.6	110.5	90.4	85.4
85°	90.4	103.0	100.4	120.5	130.6	125.5	108.0	82.9	62.8	45.2	42.7
87.5°	25.1	22.6	25.1	25.1	25.1	22.6	20.1	20.1	20.1	12.6	10.0
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)