

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: P531274

Luminaire Tested: **GALN-SA6C-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-740-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35336 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

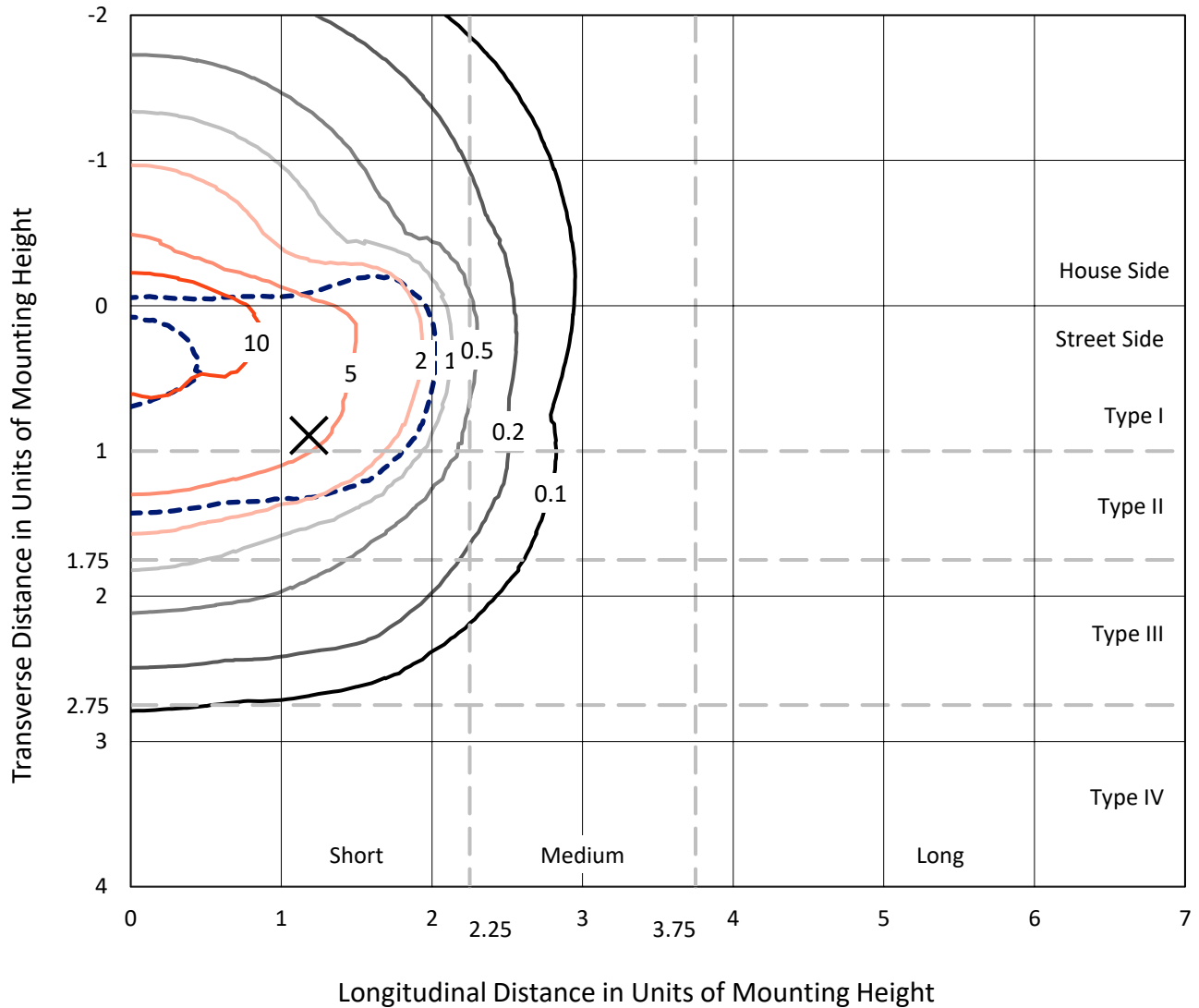
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

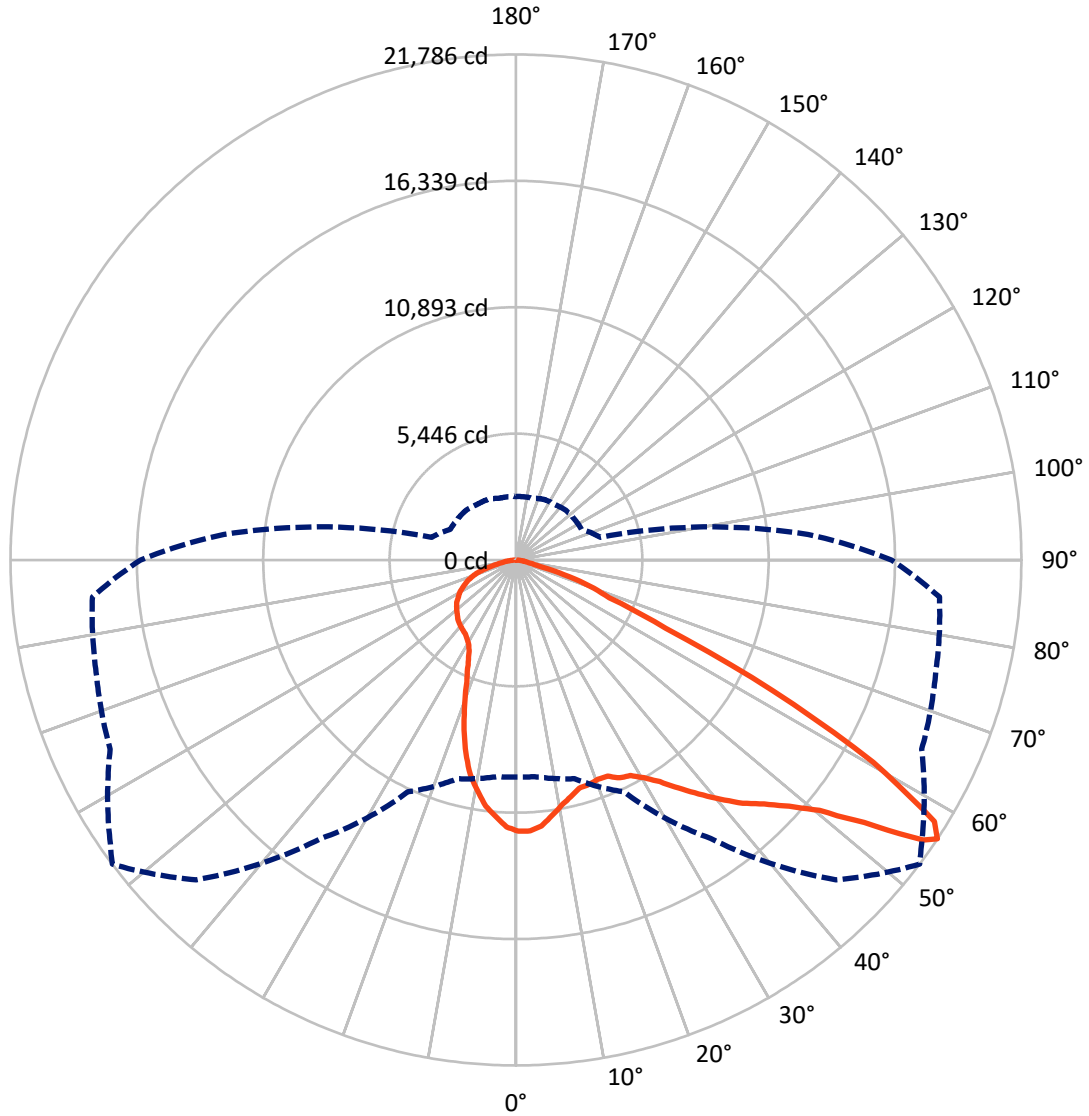
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10311.8	0.0	10311.8
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	25024.2	0.0	25024.2
	% Fixture	70.8	0.0	70.8
Total	Lumens	35336.0	0.0	35336.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1034.9	2.9
10°-20°	2584.8	7.3
20°-30°	3811.6	10.8
30°-40°	5446.0	15.4
40°-50°	7495.7	21.2
50°-60°	8857.9	25.1
60°-70°	4720.7	13.4
70°-80°	1197.6	3.4
80°-90°	186.7	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°	35336.0	100.0
0°-180°	35336.0	100.0



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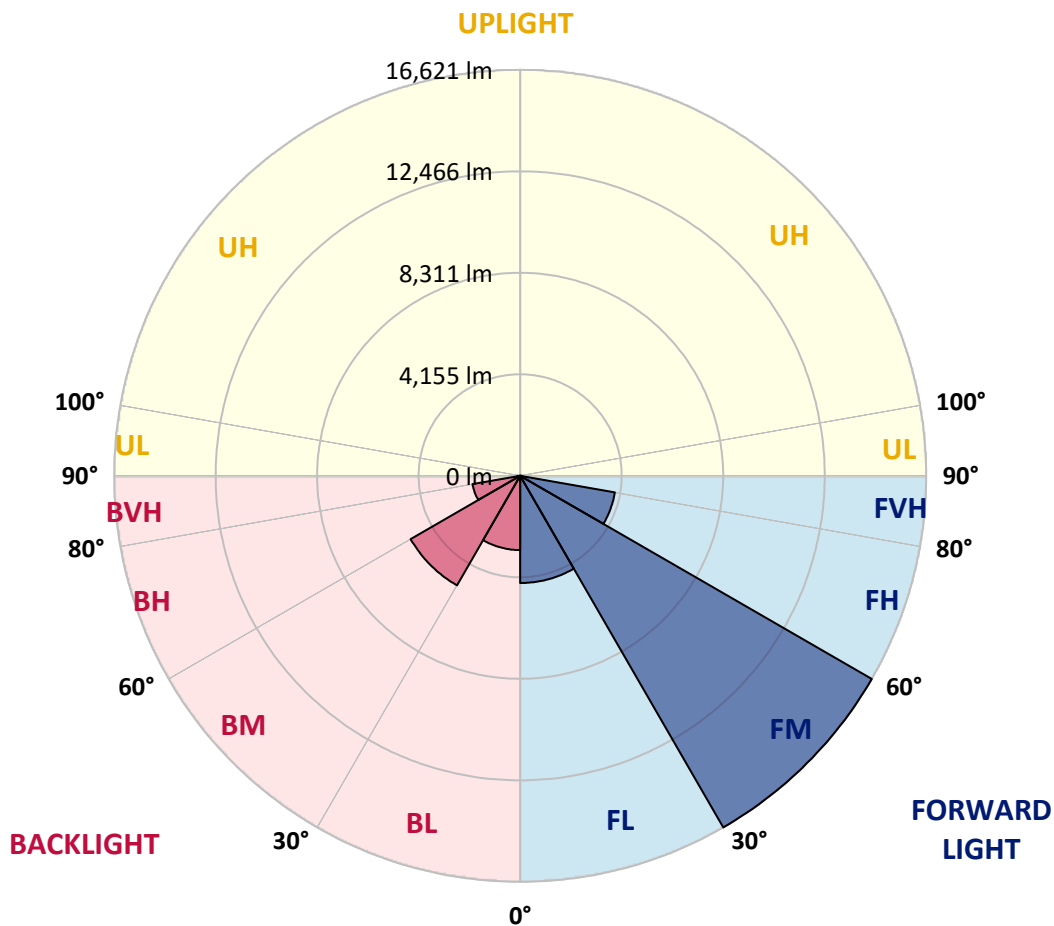
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4390.0	12.4			
FM (30°-60°)	16621.4	47.0			
FH (60°-80°)	3937.8	11.1			G2/5000
FVH (80°-90°)	75.1	0.2			G1/100
BL (0°-30°)	3041.4	8.6	B4/5000		
BM (30°-60°)	5178.2	14.7	B4/8500		
BH (60°-80°)	1980.5	5.6	B3/2500		G3/2500
BVH (80°-90°)	111.7	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°	53°	55°	65°	75°	85°
0°	11690.5	11690.5	11690.5	11690.5	11690.5	11690.5	11690.5	11690.5	11690.5	11690.5	11690.5
2.5°	11545.5	11445.8	11504.7	11482.0	11667.9	11722.3	11695.1	11717.7	11822.0	11772.1	11667.9
5°	10788.5	10929.0	10956.2	11024.2	11133.0	11346.0	11513.8	11559.1	11608.9	11840.1	11817.5
7.5°	10099.5	10194.7	10144.8	10344.2	10580.0	10924.5	11128.5	11164.7	11622.5	11749.5	11844.7
10°	9664.3	9569.1	9795.8	9850.2	10117.6	10512.0	10756.7	10906.3	11323.4	11826.5	11885.5
12.5°	9260.9	9229.1	9365.1	9519.2	9818.4	10226.4	10475.7	10534.6	11178.3	11708.7	11985.2
15°	8961.7	8925.4	9061.4	9174.7	9523.8	9886.4	10203.7	10371.4	11019.7	11640.7	11899.1
17.5°	8726.0	8721.4	8798.5	9002.5	9360.6	9664.3	10176.5	10185.6	10938.1	11744.9	11971.6
20°	8712.4	8707.8	8721.4	8948.1	9274.5	9646.2	10090.4	10172.0	10938.1	11672.4	11976.1
22.5°	8825.7	8753.2	8834.8	8979.8	9215.5	9677.9	10122.1	10303.5	11201.0	12030.5	12180.1
25°	9007.0	9025.2	9070.5	9120.3	9256.3	9750.4	10403.2	10552.8	11509.2	12338.8	12461.1
27.5°	9337.9	9328.9	9347.0	9374.2	9492.0	9818.4	10516.5	10901.8	12152.9	12887.2	12764.9
30°	9823.0	9791.2	9863.8	9958.9	9850.2	10036.0	10892.7	11182.8	12751.3	13440.3	13104.8
32.5°	10262.7	10380.5	10516.5	10557.3	10425.8	10462.1	11391.4	11686.0	13249.9	14120.2	13521.9
35°	10811.1	10906.3	11087.7	11214.6	11191.9	11083.1	12071.3	12461.1	13970.6	14618.8	13961.6
37.5°	11346.0	11459.4	11758.5	12134.8	11926.3	11876.4	12796.6	13118.4	14192.7	14886.3	14283.4
40°	12207.3	12202.8	12719.5	12914.4	13100.3	13014.2	13549.1	13657.9	14310.6	14827.4	14292.5
42.5°	13218.2	13154.7	13680.5	13984.2	14224.5	14233.5	14333.3	14297.0	14365.0	14528.2	14197.3
45°	14179.1	14315.1	14845.5	15389.4	15629.7	15656.9	14995.1	14927.1	14460.2	14442.1	14016.0
47.5°	15353.2	15384.9	15820.1	16536.3	17093.8	16903.5	15851.8	15702.2	14877.2	15017.7	14319.7
50°	15421.2	15656.9	16046.7	16889.9	18603.3	18553.5	16962.4	16681.3	15548.1	15833.7	15167.3
52.5°	13997.8	13943.4	14405.8	15783.8	18490.0	20194.4	18802.8	18131.9	16989.6	16772.0	16540.8
55°	10666.1	10793.0	11201.0	12592.6	16055.8	20217.1	21309.5	20761.0	18530.8	18159.1	17891.7
56°	9356.1	9374.2	9759.5	11028.7	14650.6	19496.3	21785.5	21341.2	19296.9	18730.3	18322.3
57.5°	7755.9	7651.7	7851.1	8544.7	12366.0	17973.2	21264.2	21699.3	20194.4	19346.7	18780.1
60°	6105.9	6083.3	6001.7	6128.6	7814.8	13540.0	17701.3	18680.4	20103.7	18766.5	17986.8
62.5°	4986.3	4872.9	5036.1	5217.5	5430.5	8399.6	12438.5	13014.2	15960.6	14981.5	13512.8
65°	3866.6	3812.2	4016.2	4605.5	4732.4	5335.3	7085.0	7529.3	9424.1	9256.3	8150.3
67.5°	2660.9	2669.9	2846.7	3744.2	4387.9	4333.5	4338.1	4569.2	4918.3	3653.6	3182.1
70°	1686.3	1681.7	1776.9	2411.5	3531.2	3567.5	3386.1	3318.1	3145.9	1903.8	2017.2
72.5°	1083.4	1051.7	1101.5	1332.7	1826.8	2112.4	2175.8	2216.6	1822.3	1495.9	1622.8
75°	612.0	580.2	562.1	621.0	720.7	834.1	915.7	942.9	1056.2	1133.2	1201.2
77.5°	185.9	167.7	204.0	272.0	358.1	480.5	584.8	602.9	711.7	802.3	870.3
80°	81.6	90.7	126.9	181.3	253.8	340.0	412.5	439.7	512.2	580.2	598.4
82.5°	49.9	54.4	86.1	122.4	176.8	240.2	294.6	303.7	376.2	430.6	444.2
85°	18.1	22.7	45.3	72.5	113.3	154.1	154.1	167.7	154.1	154.1	167.7
87.5°	0.0	0.0	4.5	9.1	9.1	13.6	18.1	18.1	22.7	27.2	31.7
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°	11690.5	11690.5	11690.5	11690.5	11690.5	11690.5	11690.5	11690.5	11690.5	11690.5	11690.5
2.5°	11722.3	11699.6	11663.3	11531.9	11518.3	11477.5	11250.8	11214.6	11250.8	11142.1	11151.1
5°	11699.6	11767.6	11495.6	11364.2	11119.4	10942.6	10738.6	10634.4	10448.5	10330.6	10462.1
7.5°	11799.3	11772.1	11432.2	11146.6	10779.4	10330.6	9972.5	9768.6	9442.2	9351.5	9419.5
10°	11763.1	11618.0	11219.1	10842.9	10149.3	9755.0	9174.7	8612.7	8304.4	8145.8	8123.1
12.5°	11713.2	11672.4	11006.1	10357.8	9628.0	8798.5	7982.6	7452.2	6949.1	6731.5	6763.2
15°	11772.1	11427.6	10607.2	9786.7	8816.6	7728.7	6849.3	6164.8	5815.8	5675.3	5675.3
17.5°	11744.9	11309.8	10416.8	9147.5	7919.1	6631.7	5666.2	5253.7	5108.7	5108.7	5149.5
20°	11758.5	11386.8	10031.5	8508.4	6858.4	5584.6	4882.0	4732.4	4795.9	4818.6	4841.2
22.5°	11835.6	11133.0	9655.2	7805.8	5874.7	4777.8	4433.2	4437.8	4551.1	4673.5	4650.8
25°	11930.8	11033.3	9197.4	7107.7	5122.3	4383.4	4274.6	4261.0	4347.1	4410.6	4419.7
27.5°	11849.2	10861.0	8730.5	6237.4	4505.8	4120.5	4097.8	4106.9	4134.1	4261.0	4220.2
30°	12116.6	10910.9	8145.8	5507.6	4165.8	4034.3	4007.1	3993.6	4034.3	4070.6	4038.9
32.5°	12447.5	10734.1	7710.6	4805.0	3998.1	3970.9	3916.5	3898.4	3921.0	3884.8	3902.9
35°	12592.6	10702.4	7144.0	4301.8	3866.6	3844.0	3812.2	3807.7	3812.2	3780.5	3753.3
37.5°	12674.2	10851.9	6495.8	4070.6	3785.0	3807.7	3735.2	3726.1	3644.5	3662.6	3676.2
40°	12814.7	10620.8	5969.9	3848.5	3735.2	3689.8	3626.4	3612.8	3558.4	3526.7	3558.4
42.5°	12610.7	10552.8	5453.2	3753.3	3662.6	3612.8	3567.5	3490.4	3472.3	3445.1	3426.9
45°	12447.5	10162.9	4990.8	3635.4	3576.5	3549.3	3463.2	3381.6	3313.6	3340.8	3300.0
47.5°	12569.9	10026.9	4533.0	3535.7	3458.7	3426.9	3340.8	3277.3	3209.3	3177.6	3168.5
50°	13059.5	10280.8	4147.7	3463.2	3358.9	3340.8	3227.5	3155.0	3091.5	3068.8	3077.9
52.5°	14229.0	10974.3	3884.8	3313.6	3263.7	3182.1	3118.7	3028.0	2987.2	2914.7	2960.0
55°	15711.3	12103.0	3816.8	3173.1	3145.9	3073.4	2987.2	2919.2	2842.2	2783.2	2769.6
56°	16187.3	12642.5	3762.4	3118.7	3073.4	3032.6	2919.2	2878.4	2756.0	2742.4	2733.4
57.5°	16572.6	13118.4	3771.4	3014.4	2969.1	2932.8	2864.8	2765.1	2683.5	2633.7	2656.3
60°	15702.2	12279.8	3599.2	2855.8	2846.7	2778.7	2683.5	2638.2	2538.5	2479.5	2465.9
62.5°	11672.4	8336.1	2919.2	2651.8	2647.3	2574.7	2465.9	2416.1	2397.9	2316.4	2316.4
65°	6722.4	5226.5	2524.9	2484.1	2447.8	2375.3	2266.5	2225.7	2180.4	2153.2	2130.5
67.5°	2869.4	2710.7	2293.7	2289.2	2248.4	2157.7	2048.9	1985.4	1926.5	1872.1	1899.3
70°	2080.6	2112.4	2071.6	2048.9	1999.0	1885.7	1790.5	1713.5	1622.8	1586.5	1613.7
72.5°	1650.0	1718.0	1776.9	1781.5	1722.5	1591.1	1486.8	1382.6	1282.8	1233.0	1255.6
75°	1251.1	1296.4	1355.4	1369.0	1282.8	1192.2	1092.4	983.7	906.6	847.7	856.7
77.5°	902.1	893.0	947.4	938.3	897.5	834.1	743.4	643.7	557.6	503.2	507.7
80°	616.5	630.1	661.8	657.3	607.4	566.6	498.6	417.0	353.6	308.2	299.2
82.5°	430.6	453.3	480.5	457.8	417.0	376.2	326.4	267.4	217.6	181.3	172.3
85°	154.1	176.8	204.0	217.6	231.2	222.1	185.9	149.6	108.8	90.7	86.1
87.5°	31.7	36.3	40.8	40.8	40.8	36.3	31.7	31.7	27.2	13.6	13.6
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)