

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: P530586

Luminaire Tested: **GALN-SA5D-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530586
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-SA5D-740-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 33819 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

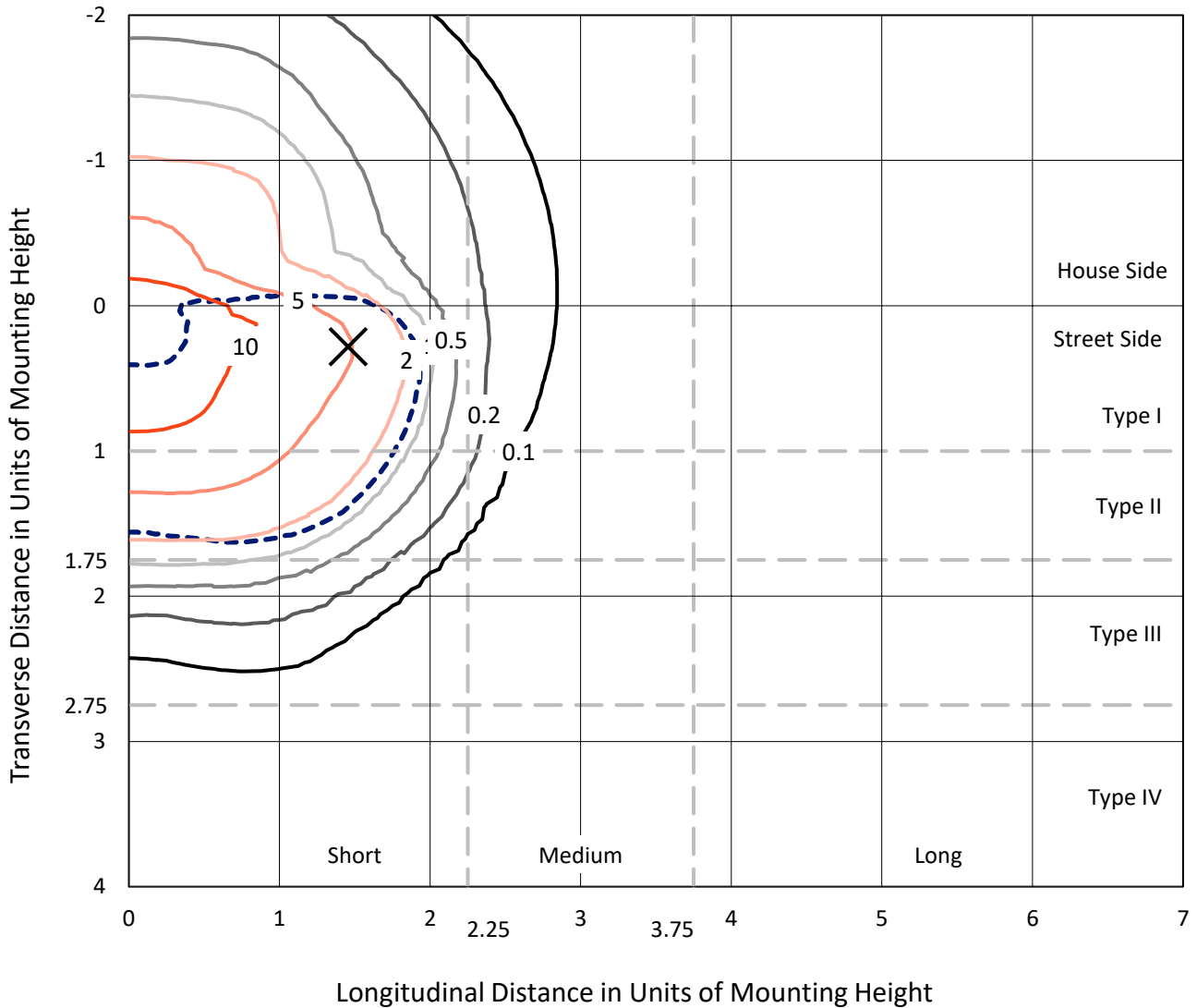
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

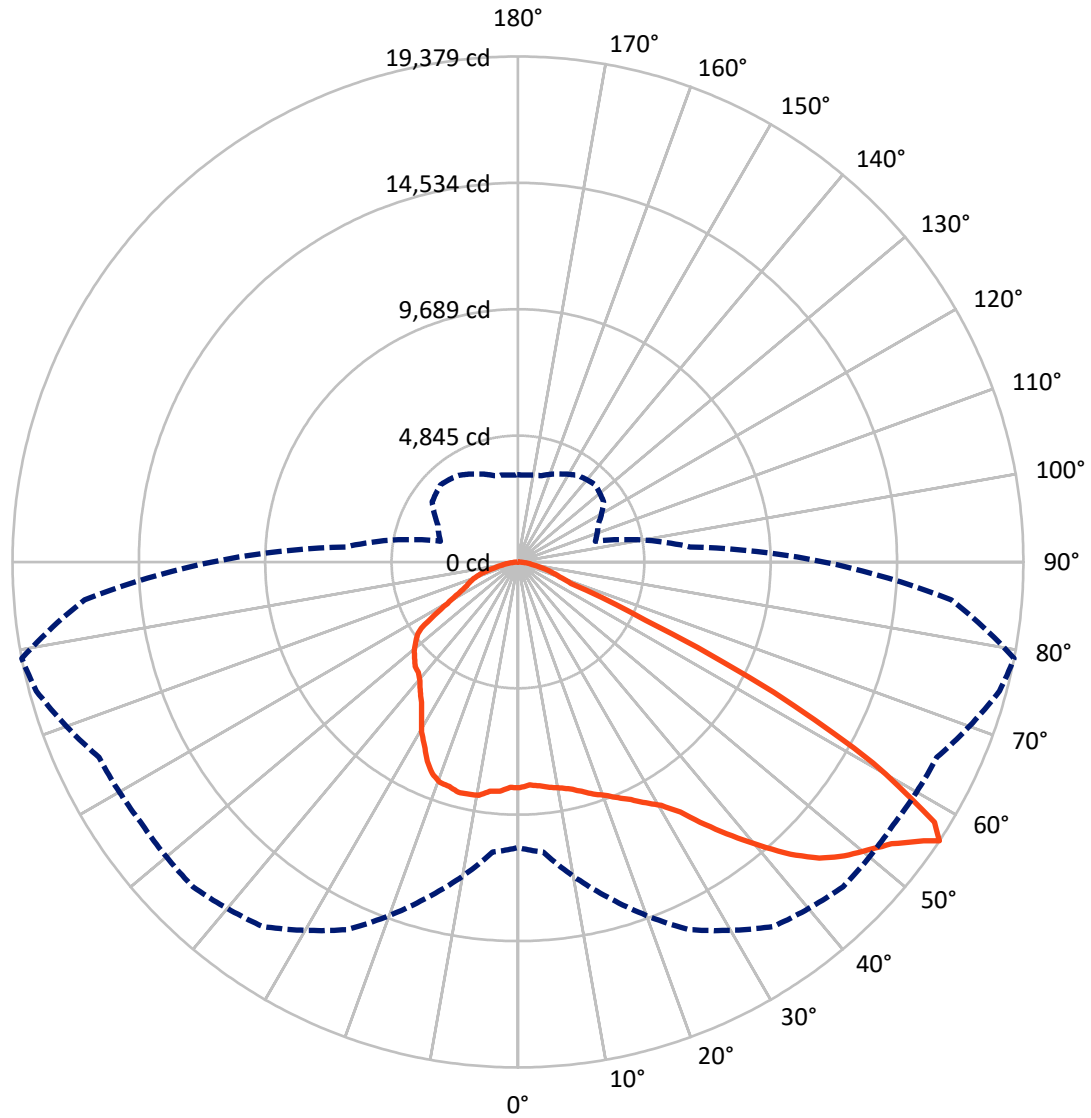
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 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
House Side	Lumens	9987.5	0.0	9987.5
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	23831.5	0.0	23831.5
	% Fixture	70.5	0.0	70.5
Total	Lumens	33819.0	0.0	33819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	786.7	2.3
10°-20°	2153.0	6.4
20°-30°	3683.4	10.9
30°-40°	5645.3	16.7
40°-50°	7629.6	22.6
50°-60°	8762.8	25.9
60°-70°	3994.4	11.8
70°-80°	984.8	2.9
80°-90°	179.0	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°	33819.0	100.0
0°-180°	33819.0	100.0

Coefficient of Utilization

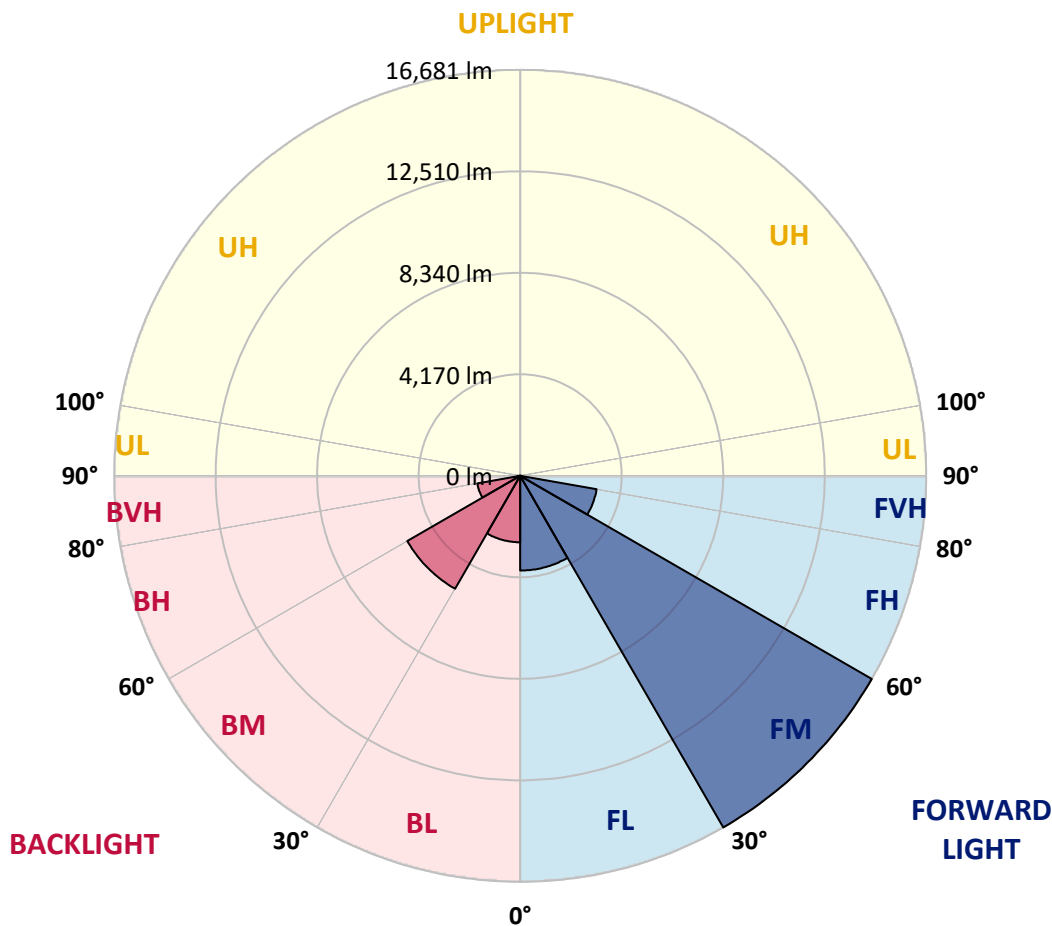


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3891.2	11.5			
FM (30°-60°)	16680.5	49.3			
FH (60°-80°)	3188.4	9.4			G2/5000
FVH (80°-90°)	71.5	0.2			G1/100
BL (0°-30°)	2732.0	8.1	B4/5000		
BM (30°-60°)	5357.2	15.8	B4/8500		
BH (60°-80°)	1790.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	107.5	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°	55°	65°	75°	79°	85°
0°	8652.9	8652.9	8652.9	8652.9	8652.9	8652.9	8652.9	8652.9	8652.9	8652.9	8652.9
2.5°	8231.7	8210.6	8261.2	8299.1	8345.4	8404.4	8433.9	8450.7	8598.2	8560.3	8674.0
5°	8054.7	8000.0	8037.9	8067.4	8147.4	8219.0	8299.1	8425.5	8560.3	8619.2	8758.3
7.5°	7898.9	7869.4	7861.0	7882.0	7991.5	8084.2	8223.2	8408.6	8627.7	8724.6	8804.6
10°	7641.9	7599.8	7663.0	7802.0	7831.5	8025.2	8185.3	8450.7	8640.3	8808.8	9044.7
12.5°	7528.1	7486.0	7498.7	7578.7	7785.1	7970.5	8160.1	8459.2	8859.4	8926.8	9242.7
15°	7709.3	7667.2	7679.8	7658.7	7856.7	7953.6	8252.7	8627.7	9011.0	9124.8	9461.8
17.5°	8122.1	8126.4	8071.6	8025.2	7978.9	8185.3	8391.8	8728.8	9070.0	9356.5	9609.2
20°	8909.9	8770.9	8661.4	8400.2	8328.6	8417.0	8678.2	9002.6	9310.1	9546.0	9832.5
22.5°	9516.6	9529.2	9373.3	8943.6	8787.8	8825.7	9048.9	9314.3	9651.4	9819.9	10148.5
25°	10397.0	10308.5	10140.0	9798.8	9449.1	9478.6	9642.9	9883.1	9975.7	10093.7	10451.8
27.5°	11201.6	11226.9	10894.1	10573.9	10140.0	10055.8	10350.7	10392.8	10236.9	10460.2	10582.4
30°	12018.9	11997.8	11778.8	11403.9	10978.4	10995.2	11125.8	10919.4	10704.5	10826.7	10911.0
32.5°	12865.7	12625.5	12617.1	12280.1	11955.7	11799.9	11639.8	11740.9	11408.1	11433.3	11353.3
35°	13543.9	13577.6	13383.8	13143.7	12983.6	12709.8	12271.7	12452.8	12389.6	12360.1	12014.7
37.5°	14036.8	13906.2	14003.1	13923.1	13771.4	13430.2	12975.2	13147.9	13177.4	13320.6	12920.4
40°	14441.2	14386.5	14643.4	14685.6	14580.3	13843.0	13025.8	13539.7	13982.0	14293.8	13817.7
42.5°	14635.0	14753.0	15022.6	15347.0	15111.1	14323.3	13286.9	13838.8	14824.6	15317.5	14668.7
45°	14896.2	14744.5	15144.8	15738.8	15743.0	14727.7	13539.7	14243.2	15481.8	16197.9	15250.1
47.5°	14630.8	14706.6	15119.5	15873.6	16067.3	15153.2	14222.2	14816.2	16206.4	16842.5	15789.3
50°	14036.8	14188.5	14942.5	15726.1	16311.7	15603.9	15005.7	15435.4	16876.2	17360.7	15877.8
52.5°	13417.5	13501.8	14681.4	15839.9	16421.2	16185.3	16054.7	16290.6	17693.5	17946.2	15987.3
55°	11732.4	12132.7	13817.7	15789.3	16956.2	17234.3	17133.2	17478.6	18620.3	18873.0	16585.5
56°	10953.1	11163.7	13299.6	15553.4	17061.5	17617.6	17567.1	17722.9	19113.1	19378.5	16678.2
57.5°	9512.3	9529.2	11340.7	14508.6	16665.6	17731.4	17680.8	17803.0	19016.3	18835.1	15865.1
60°	5952.6	6213.8	7717.7	11159.5	14171.6	16450.7	16737.2	15755.6	16033.6	15650.3	12343.3
62.5°	3083.7	3045.8	4044.2	6525.5	9407.0	11778.8	12044.2	11997.8	11568.2	11007.9	8063.2
65°	1537.6	1546.1	2114.8	3231.2	4819.4	6167.4	6908.9	6988.9	5847.3	5379.7	3825.2
67.5°	1116.4	1158.5	1520.8	1975.8	2270.7	2540.3	3113.2	3054.2	2312.8	2199.0	2039.0
70°	867.8	905.7	1234.3	1508.2	1369.1	1369.1	1491.3	1541.9	1647.2	1693.5	1748.3
72.5°	631.9	661.4	943.7	1040.5	897.3	964.7	1116.4	1234.3	1343.9	1360.7	1423.9
75°	433.9	459.2	619.3	572.9	539.2	665.6	817.3	926.8	1006.8	1049.0	1086.9
77.5°	282.3	290.7	353.9	299.1	345.4	429.7	530.8	623.5	703.5	737.2	745.7
80°	126.4	139.0	151.7	189.6	240.1	307.5	379.1	455.0	505.5	518.2	543.4
82.5°	71.6	71.6	92.7	134.8	176.9	223.3	273.8	328.6	387.6	400.2	396.0
85°	37.9	37.9	54.8	80.0	109.5	130.6	126.4	130.6	139.0	160.1	155.9
87.5°	12.6	12.6	16.9	16.9	21.1	25.3	21.1	29.5	37.9	37.9	37.9
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°	8652.9	8652.9	8652.9	8652.9	8652.9	8652.9	8652.9	8652.9	8652.9	8652.9	8652.9
2.5°	8640.3	8678.2	8627.7	8737.2	8737.2	8716.1	8610.8	8644.5	8669.8	8669.8	8690.9
5°	8804.6	8792.0	8825.7	8695.1	8615.0	8585.5	8412.8	8328.6	8256.9	8252.7	8189.5
7.5°	8897.3	8863.6	8850.9	8754.0	8400.2	8185.3	7814.6	7599.8	7553.4	7389.1	7452.3
10°	9044.7	9107.9	9044.7	8518.1	8025.2	7532.4	7170.1	6837.3	6706.7	6601.3	6538.2
12.5°	9348.0	9318.6	8952.0	8240.1	7549.2	6963.6	6424.4	6074.8	5944.2	5851.5	5843.1
15°	9605.0	9457.6	8897.3	7802.0	6807.8	6184.3	5741.9	5493.4	5434.4	5442.8	5480.8
17.5°	9693.5	9592.4	8610.8	7347.0	6255.9	5522.9	5316.5	5278.5	5333.3	5396.5	5413.4
20°	9832.5	9672.4	8492.9	6727.7	5573.4	5110.0	5097.4	5232.2	5333.3	5426.0	5438.6
22.5°	10123.2	9718.8	8109.5	6142.2	5105.8	4987.9	5110.0	5223.8	5379.7	5455.5	5388.1
25°	10207.4	9617.7	7570.3	5438.6	4810.9	4912.0	5042.6	5198.5	5308.0	5350.2	5379.7
27.5°	10279.1	9461.8	6841.5	4971.0	4718.3	4907.8	5042.6	5173.2	5232.2	5270.1	5303.8
30°	10481.3	9415.4	6209.6	4659.3	4659.3	4823.6	4996.3	5030.0	5110.0	5156.4	5215.4
32.5°	10582.4	9095.3	5560.8	4461.3	4600.3	4865.7	4878.3	4941.5	4945.7	4983.7	4920.5
35°	10847.8	8867.8	4958.4	4318.0	4625.6	4823.6	4886.8	4848.8	4642.4	4541.3	4562.4
37.5°	11041.6	8754.0	4524.5	4301.2	4629.8	4869.9	4903.6	4617.1	4402.3	4233.8	4275.9
40°	11563.9	8471.8	4195.9	4271.7	4667.7	4920.5	4827.8	4516.0	4128.5	3955.8	3926.3
42.5°	11964.1	8269.6	3989.5	4238.0	4697.2	4992.1	4789.9	4313.8	3917.8	3757.8	3799.9
45°	12427.5	8223.2	3879.9	4246.4	4747.7	5030.0	4743.5	4158.0	3736.7	3673.5	3660.9
47.5°	12591.8	7890.4	3762.0	4174.8	4735.1	5017.4	4587.7	4040.0	3669.3	3677.7	3711.4
50°	12318.0	7549.2	3673.5	4027.4	4650.9	4903.6	4343.3	3884.1	3631.4	3736.7	3795.7
52.5°	11968.4	7199.6	3492.4	3829.4	4478.1	4726.7	4229.6	3875.7	3593.5	3559.8	3572.4
55°	12073.7	6913.1	3239.6	3559.8	4200.1	4398.1	4103.2	3795.7	3500.8	3374.4	3416.5
56°	11732.4	6618.2	3075.3	3391.2	4010.5	4187.5	4040.0	3724.1	3424.9	3340.7	3340.7
57.5°	10767.7	5628.2	2860.4	3121.6	3610.3	3820.9	3917.8	3681.9	3340.7	3193.2	3197.5
60°	7941.0	4002.1	2565.6	2750.9	2991.0	3159.5	3610.3	3564.0	3130.1	3029.0	2991.0
62.5°	4895.2	2923.6	2354.9	2426.5	2548.7	2687.7	3151.1	3226.9	2906.8	2797.3	2772.0
65°	2742.5	2237.0	2194.8	2224.3	2283.3	2354.9	2616.1	2784.6	2565.6	2397.0	2388.6
67.5°	2005.3	2001.0	2034.7	2060.0	2085.3	2085.3	2148.5	2215.9	2186.4	2051.6	2039.0
70°	1782.0	1794.6	1819.9	1824.1	1832.5	1803.0	1752.5	1731.4	1765.1	1680.9	1664.0
72.5°	1470.2	1512.4	1541.9	1546.1	1499.7	1461.8	1394.4	1322.8	1297.5	1280.7	1276.5
75°	1129.0	1158.5	1171.1	1166.9	1150.1	1095.3	1015.3	943.7	897.3	846.8	872.0
77.5°	762.5	804.6	825.7	825.7	800.4	716.2	678.2	623.5	577.1	522.4	530.8
80°	535.0	564.5	598.2	594.0	551.9	509.7	455.0	404.4	366.5	324.4	320.2
82.5°	400.2	417.1	433.9	425.5	396.0	353.9	316.0	269.6	227.5	198.0	198.0
85°	143.2	155.9	189.6	198.0	214.8	214.8	181.1	151.7	122.2	101.1	101.1
87.5°	42.1	42.1	46.3	46.3	42.1	46.3	37.9	42.1	46.3	29.5	29.5
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)