

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: P651100

Luminaire Tested: **GALN-SA8C-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-840-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47639.3 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

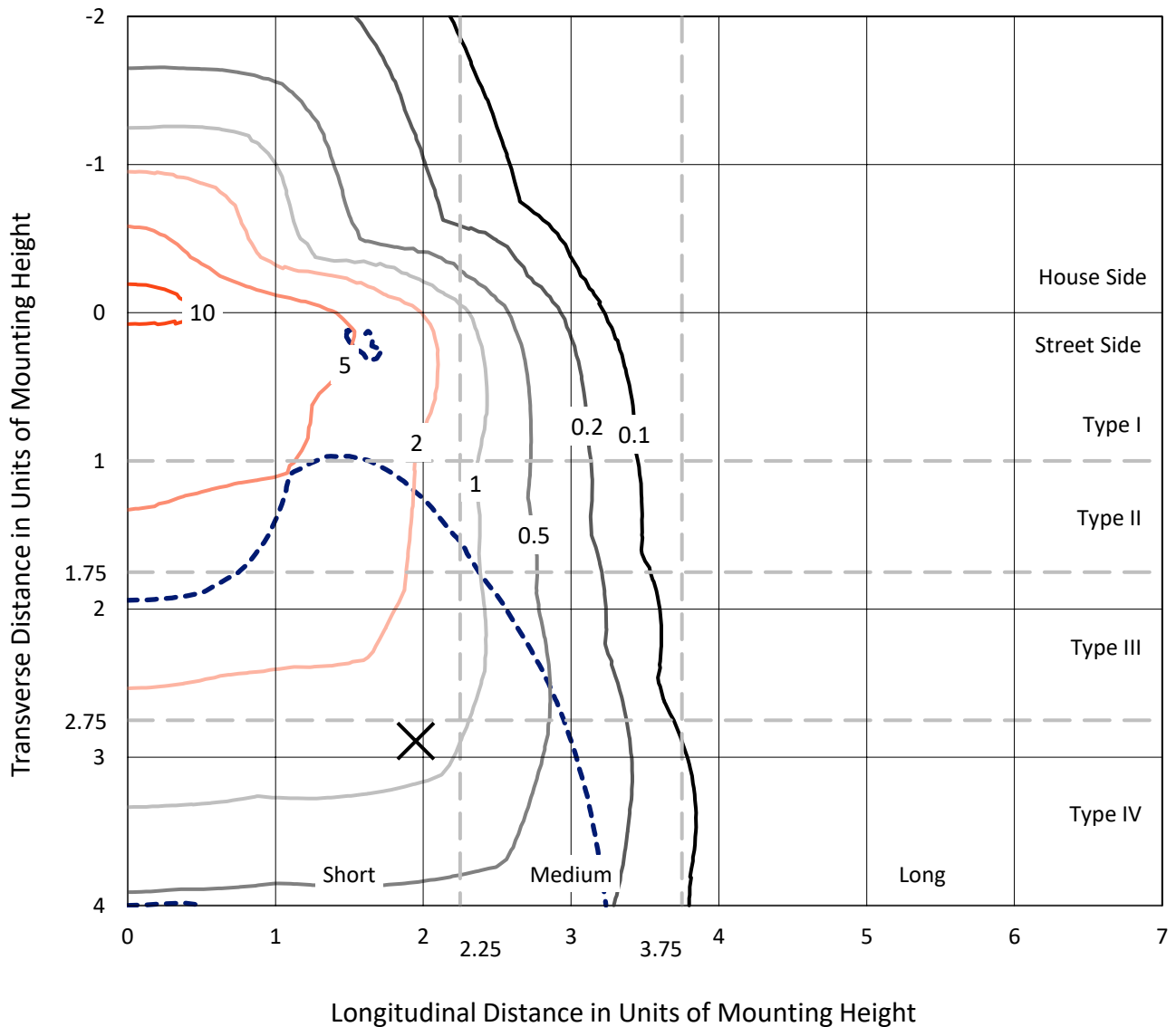
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

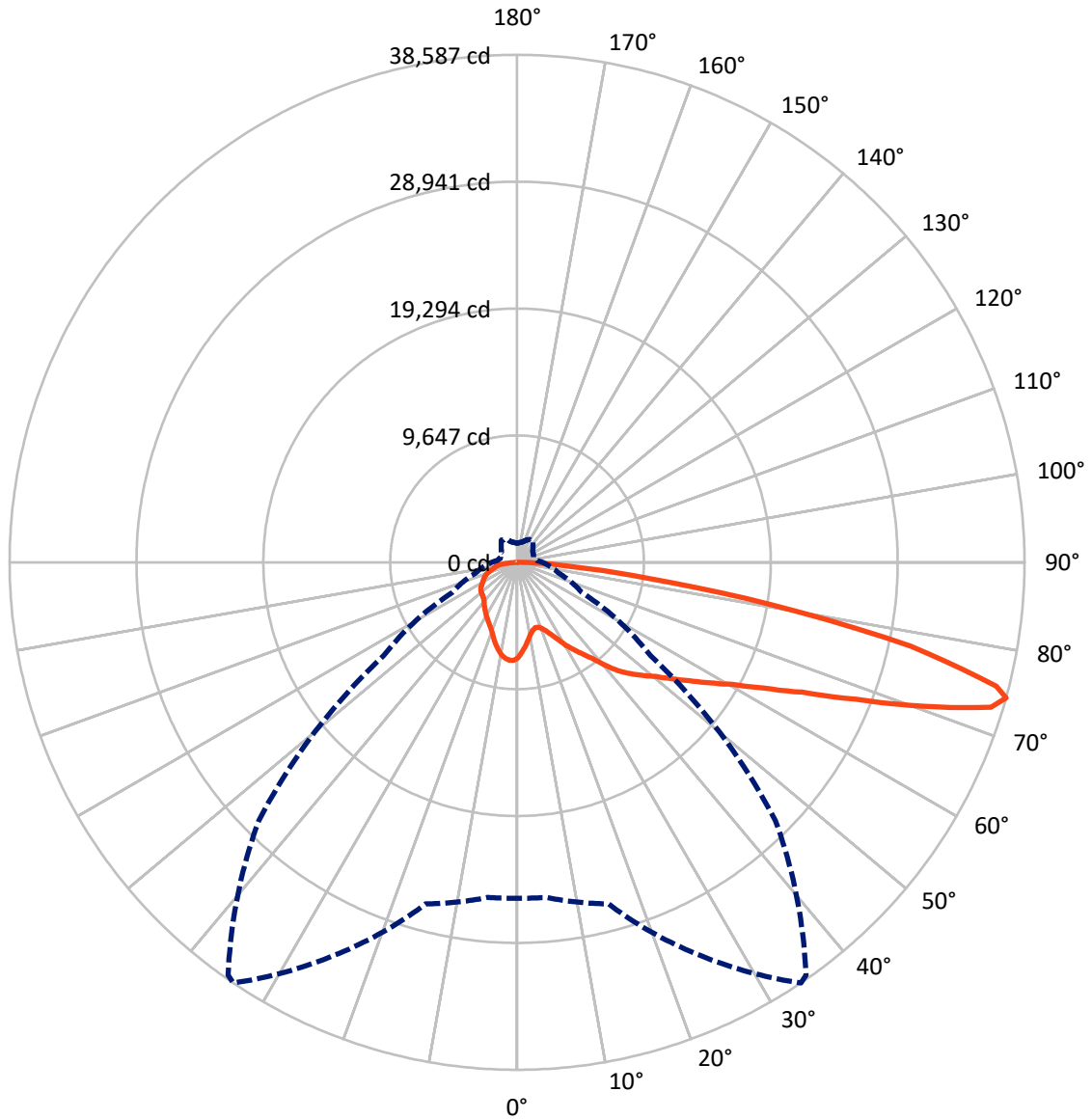
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10138.0	0.0	10138.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	37501.3	0.0	37501.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	47639.3	0.0	47639.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	661.5	1.4
10°-20°	1810.8	3.8
20°-30°	2985.6	6.3
30°-40°	4472.1	9.4
40°-50°	6501.2	13.6
50°-60°	9080.6	19.1
60°-70°	11368.4	23.9
70°-80°	9400.8	19.7
80°-90°	1358.3	2.9
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°	47639.3	100.0
0°-180°	47639.3	100.0

Coefficient of Utilization

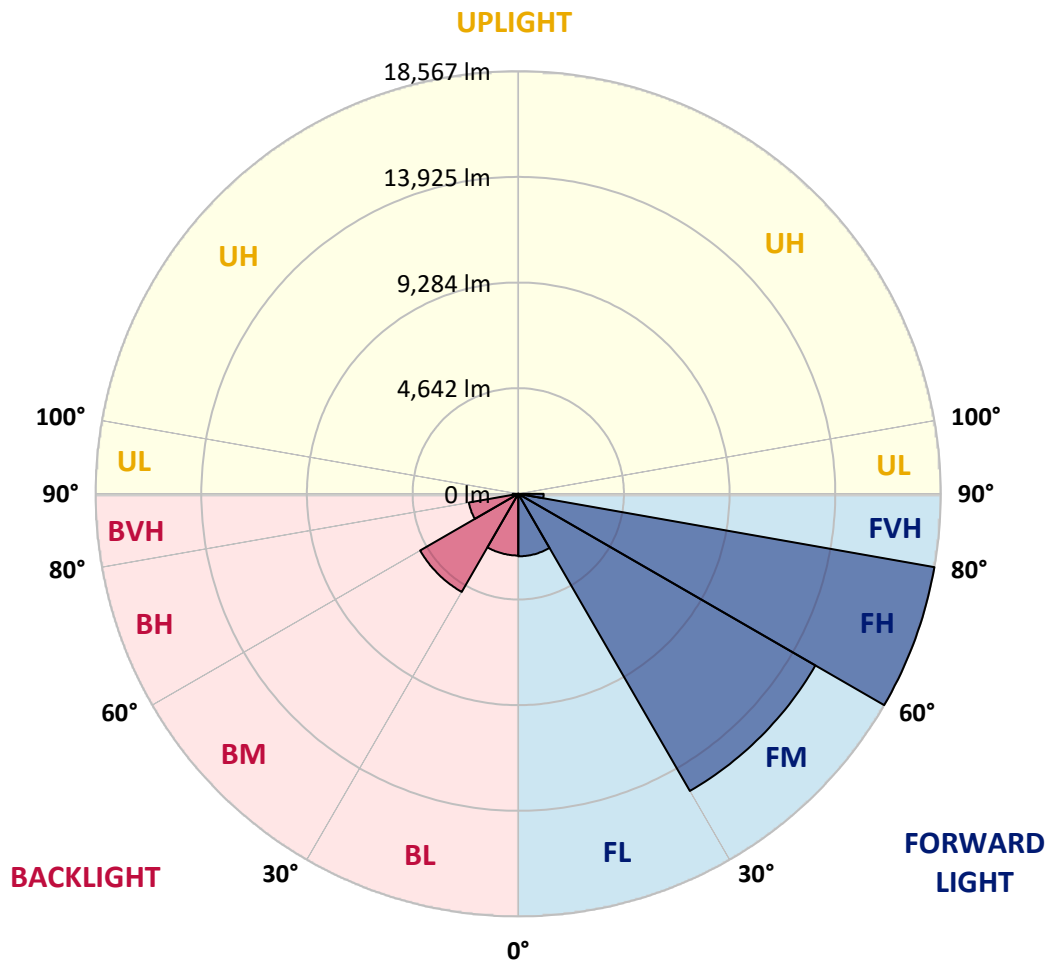


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2746.2	5.8			
FM (30°-60°)	15075.0	31.6			
FH (60°-80°)	18567.3	39.0			G5
FVH (80°-90°)	1112.8	2.3			G5
BL (0°-30°)	2711.7	5.7	B4/5000		
BM (30°-60°)	4978.8	10.5	B3/5000		
BH (60°-80°)	2201.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	245.5	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	7273.6	7273.6	7273.6	7273.6	7273.6	7273.6	7273.6	7273.6	7273.6	7273.6	7273.6
2.5°	6722.0	6756.3	6774.8	6840.8	6856.6	6877.7	6933.1	7007.0	7102.0	7186.5	7260.4
5°	6162.5	6215.2	6246.9	6305.0	6418.5	6429.0	6576.9	6745.7	6938.4	7117.9	7265.7
7.5°	5632.0	5690.0	5716.4	5822.0	5972.4	5996.2	6212.6	6479.1	6801.2	7073.0	7300.0
10°	5233.5	5262.6	5320.6	5399.7	5579.2	5595.1	5877.4	6233.7	6650.7	7051.9	7358.0
12.5°	5017.1	5032.9	5046.1	5130.6	5307.4	5331.2	5626.7	6030.6	6532.0	7067.7	7453.0
15°	5048.8	5054.0	4996.0	5011.8	5154.3	5188.6	5481.6	5895.9	6458.0	7107.3	7595.6
17.5°	5315.3	5296.9	5154.3	5080.4	5180.7	5196.5	5452.5	5843.2	6423.7	7181.2	7743.3
20°	5734.9	5708.5	5463.1	5299.5	5357.5	5370.7	5547.6	5882.7	6458.0	7302.6	7972.9
22.5°	6257.5	6246.9	5874.8	5676.8	5674.2	5674.2	5766.6	6025.3	6561.0	7468.8	8213.1
25°	6988.5	6933.1	6447.5	6191.5	6120.3	6115.0	6104.4	6260.2	6692.9	7645.7	8498.1
27.5°	7738.0	7643.1	7210.2	6817.0	6663.9	6645.4	6576.9	6592.7	6861.9	7846.3	8822.8
30°	8411.1	8350.4	7943.9	7508.4	7326.4	7284.2	7094.1	7007.0	7144.3	8207.8	9340.1
32.5°	8925.7	8888.8	8572.1	8176.2	7907.0	7899.1	7622.0	7550.7	7585.0	8646.0	9931.2
35°	9342.7	9355.9	9194.9	8851.8	8543.0	8498.1	8313.5	8223.7	8123.4	9279.3	10675.5
37.5°	9912.8	9941.8	9931.2	9635.7	9258.2	9268.8	9226.6	9078.8	8812.3	9986.6	11501.5
40°	10540.8	10562.0	10559.3	10445.9	10247.9	10258.5	10242.6	10073.8	9675.2	10886.6	12420.0
42.5°	11409.2	11308.8	11047.6	11161.1	11277.2	11327.3	11435.6	11274.5	10728.3	11847.3	13283.0
45°	12380.4	12190.4	11599.2	11652.0	12082.1	12177.2	12773.6	12551.9	11871.1	12950.5	14299.1
47.5°	12992.7	12805.3	12306.5	12295.9	12866.0	12958.4	14014.0	13932.3	12910.9	14140.7	15539.5
50°	13539.0	13512.6	12950.5	13085.0	13641.9	13779.1	15365.3	15288.8	13948.1	15544.8	16890.7
52.5°	14349.2	14135.4	13686.8	13963.9	14700.3	14879.7	16706.0	16481.7	14900.8	16785.2	18202.4
55°	14713.5	14663.3	14636.8	14877.0	15887.8	16017.2	18009.8	17495.2	15713.7	17835.6	19200.0
57.5°	15687.3	15594.9	15856.2	16019.8	17286.6	17484.6	19371.6	18553.4	16426.2	18669.5	19685.6
60°	16948.8	16898.6	17138.8	17434.4	18849.0	19149.9	20923.4	19456.0	16999.0	19089.2	19419.1
62.5°	18833.2	18827.9	18783.1	19416.4	21063.3	21340.4	22704.8	20334.9	17088.7	18775.2	18041.4
65°	21535.7	21440.7	21050.1	21741.5	23818.5	24143.2	24560.2	20825.8	16547.7	17162.5	15191.2
67.5°	24362.3	24357.0	24040.3	24937.6	27774.7	28109.9	26880.0	20717.5	15046.0	13903.2	10788.9
70°	26705.9	26592.3	26996.2	29387.2	32828.8	33216.7	28909.5	19442.8	11984.5	9181.7	6410.6
72.5°	27268.0	27273.3	28112.5	32818.2	37682.2	37742.9	29640.6	15758.6	8020.4	5064.6	3206.6
74°	25536.7	25581.5	26882.6	32989.7	38587.4	38312.9	27772.1	12385.7	5423.5	3306.9	2311.9
75°	23309.2	23026.8	24908.6	31847.0	37647.9	37352.3	25584.2	9939.1	4138.2	2641.8	2024.3
77.5°	12462.2	12749.9	15652.9	23765.8	30585.4	30245.0	17347.3	4766.4	2235.4	1839.5	1456.9
80°	4436.4	4893.0	6877.7	12435.8	19609.1	19714.6	8279.1	2185.3	1572.9	1356.5	1029.3
82.5°	1810.5	1860.6	2953.3	5518.6	9957.6	10052.6	3380.8	1298.5	1124.2	934.3	614.9
85°	707.3	728.4	1306.4	2480.9	4249.1	4526.2	1169.2	686.2	691.5	535.7	314.0
87.5°	237.5	269.2	535.7	826.0	1443.7	1414.6	340.4	203.2	248.1	232.3	97.6
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°	7273.6	7273.6	7273.6	7273.6	7273.6	7273.6	7273.6	7273.6	7273.6	7273.6	7273.6
2.5°	7297.4	7347.5	7381.8	7418.7	7453.0	7463.6	7455.7	7479.4	7482.0	7484.7	7487.3
5°	7339.6	7408.2	7474.1	7511.1	7527.0	7513.7	7468.8	7445.1	7424.0	7408.2	7413.4
7.5°	7397.6	7495.2	7556.0	7571.8	7529.6	7468.8	7358.0	7270.9	7215.5	7178.6	7175.9
10°	7487.3	7582.4	7632.5	7587.7	7471.5	7323.7	7149.5	6985.9	6861.9	6824.9	6822.3
12.5°	7600.9	7709.0	7706.4	7574.5	7371.2	7107.3	6824.9	6634.9	6466.0	6381.5	6415.8
15°	7748.6	7830.5	7753.9	7516.4	7194.4	6832.9	6484.4	6225.8	6035.8	5946.0	5951.3
17.5°	7920.2	7991.4	7788.2	7413.4	6946.3	6481.8	6078.0	5832.6	5682.1	5616.2	5610.9
20°	8134.0	8155.1	7788.2	7234.0	6627.0	6072.8	5687.4	5515.9	5431.4	5397.1	5407.7
22.5°	8363.6	8321.4	7746.0	6980.6	6207.3	5645.2	5386.6	5310.0	5267.8	5262.6	5267.8
25°	8622.2	8503.4	7658.9	6637.5	5769.3	5275.7	5125.3	5138.5	5146.4	5146.4	5164.8
27.5°	8938.9	8701.4	7513.7	6204.7	5257.3	4932.6	4890.4	4982.8	5025.0	5032.9	5046.1
30°	9355.9	8917.8	7273.6	5663.7	4821.8	4623.8	4697.7	4821.8	4869.3	4898.3	4893.0
32.5°	9852.1	9155.3	6948.9	5122.6	4470.8	4407.4	4497.2	4623.8	4676.6	4692.4	4671.3
35°	10435.3	9424.5	6521.5	4615.9	4164.6	4201.6	4307.2	4346.7	4394.2	4394.2	4404.8
37.5°	11063.4	9640.9	5998.9	4151.4	3927.1	4061.7	4138.2	4101.3	4080.2	4053.8	4067.0
40°	11702.1	9801.9	5320.6	3692.2	3689.6	3916.5	3937.6	3832.1	3747.7	3721.3	3708.1
42.5°	12259.0	9902.2	4708.3	3335.9	3465.3	3774.0	3789.9	3620.9	3486.4	3407.1	3380.8
45°	12916.2	10018.3	4109.2	3040.3	3256.8	3660.5	3700.1	3473.2	3275.2	3108.9	3066.7
47.5°	13816.1	10282.2	3636.8	2810.7	3106.3	3589.3	3644.7	3351.7	3090.5	2874.0	2839.7
50°	14832.2	10643.8	3270.0	2655.0	2990.2	3526.0	3594.6	3227.7	2918.9	2678.8	2652.3
52.5°	15763.8	10839.1	2953.3	2515.2	2876.7	3409.8	3528.6	3138.0	2750.0	2483.5	2459.7
55°	16273.2	10522.4	2641.8	2377.9	2721.0	3259.4	3436.2	3014.0	2586.4	2380.5	2346.2
57.5°	16341.8	9867.9	2359.4	2230.1	2557.4	3074.6	3264.7	2863.5	2480.9	2309.3	2280.3
60°	15811.3	8891.4	2140.3	2108.7	2391.1	2866.1	3072.0	2731.6	2372.6	2230.1	2201.1
62.5°	14491.7	7830.5	1987.3	1997.9	2222.2	2647.1	2929.5	2604.8	2269.7	2143.0	2116.6
65°	12222.0	6463.3	1839.5	1884.3	2071.7	2475.6	2800.2	2499.3	2166.8	2077.0	2053.3
67.5°	8490.2	4666.0	1718.1	1765.6	1929.3	2301.4	2649.7	2385.8	2050.6	2003.2	1966.2
70°	4700.3	2871.4	1575.6	1631.0	1781.4	2106.0	2480.9	2214.3	1881.7	1860.6	1807.8
72.5°	2470.3	1828.9	1414.6	1475.3	1580.8	1855.3	2222.2	2026.9	1715.5	1625.7	1557.1
74°	1929.3	1499.1	1306.4	1369.7	1441.0	1707.6	2069.1	1892.2	1596.7	1491.2	1438.4
75°	1681.2	1335.4	1214.0	1295.8	1359.1	1607.2	1950.4	1797.3	1530.7	1430.5	1382.9
77.5°	1187.7	1000.3	992.3	1090.0	1124.2	1409.3	1757.7	1636.2	1364.4	1258.9	1214.0
80°	834.0	749.5	786.5	847.1	894.7	1245.7	1631.0	1414.6	1119.0	995.0	979.2
82.5°	543.7	490.9	562.1	617.5	633.4	918.5	1316.9	1074.1	815.5	662.5	614.9
85°	250.7	245.4	322.0	314.0	311.4	448.7	781.2	628.1	469.8	351.0	329.9
87.5°	63.3	60.7	79.1	66.0	79.1	68.6	71.2	18.5	2.6	0.0	0.0
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)