

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: P191896

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191896  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-08-LED-E1-SL2-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46734 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G5

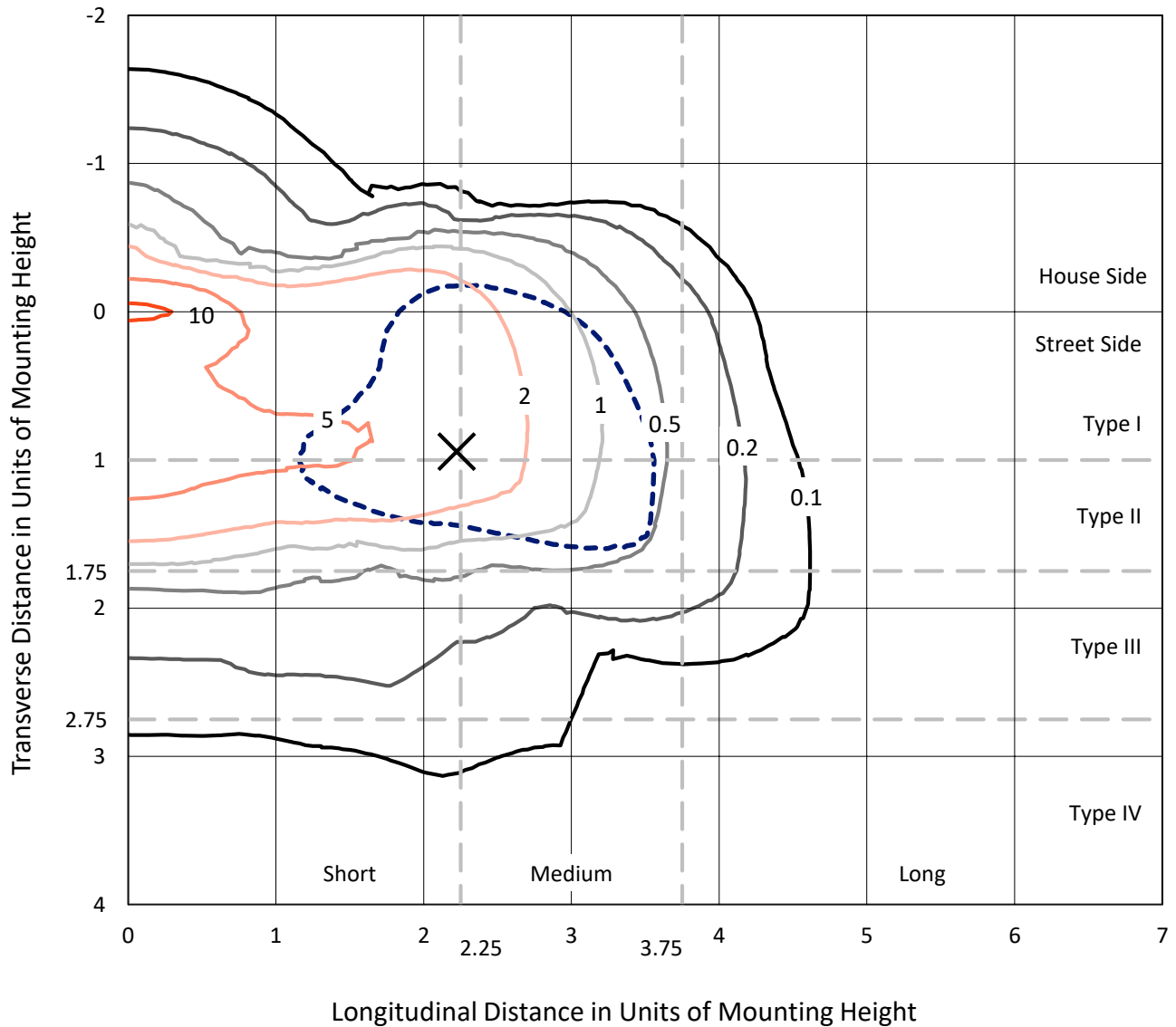
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

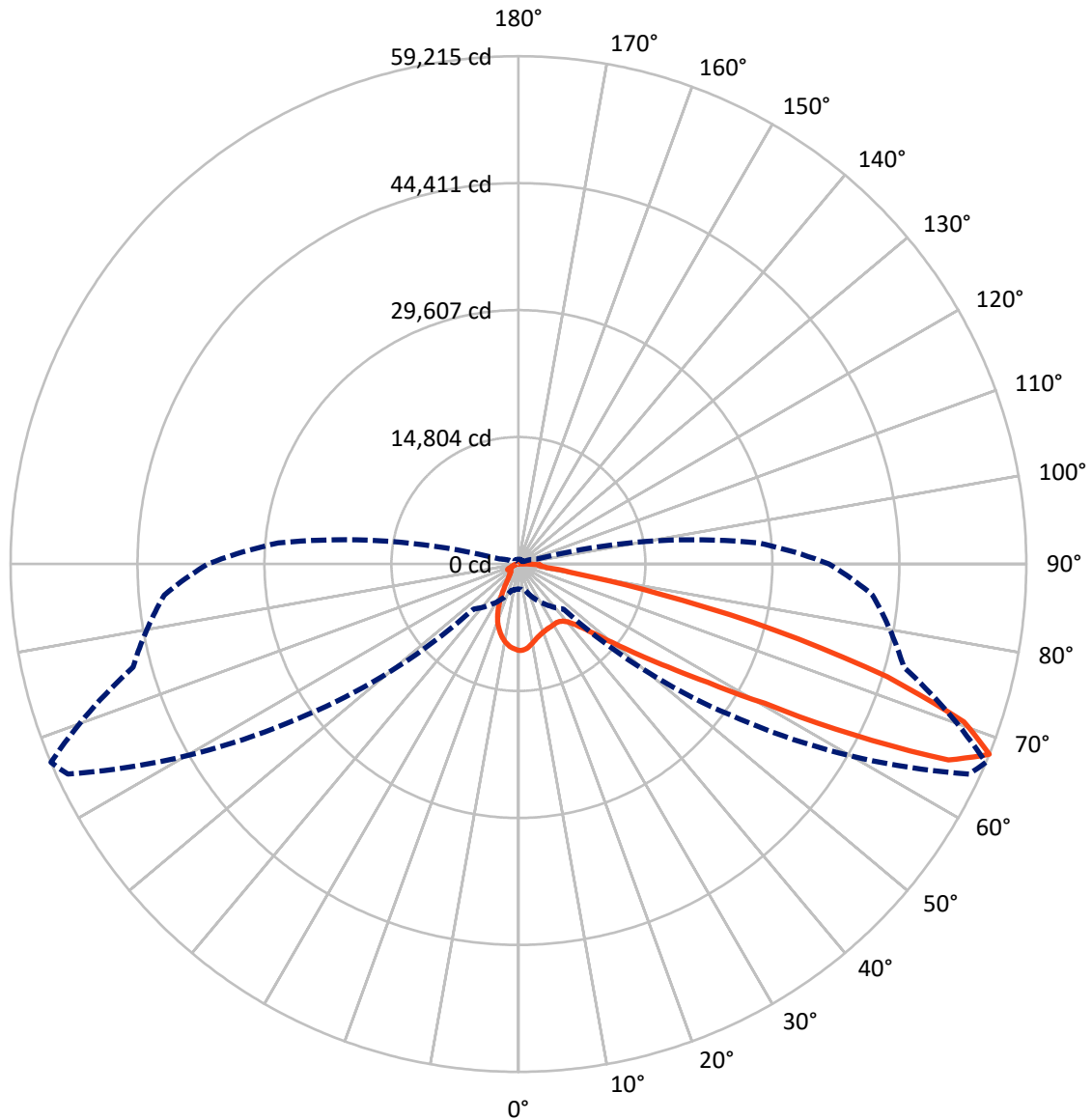
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7743.3	0.0	7743.3
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	38990.7	0.0	38990.7
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	46734.0	0.0	46734.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	860.0	1.8
10°-20°	1989.9	4.3
20°-30°	2697.4	5.8
30°-40°	3834.6	8.2
40°-50°	6415.4	13.7
50°-60°	10149.2	21.7
60°-70°	12929.1	27.7
70°-80°	6772.2	14.5
80°-90°	1086.1	2.3
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°	46734.0	100.0
0°-180°	46734.0	100.0



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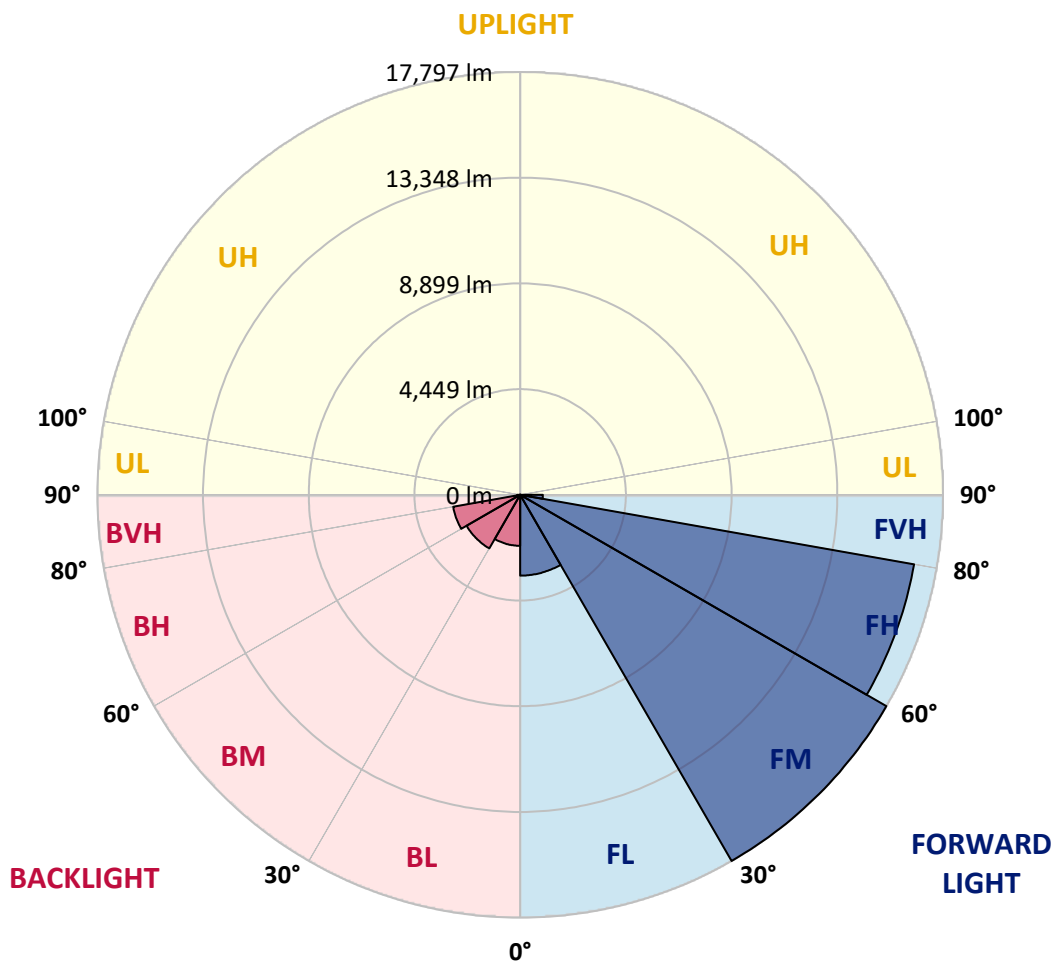
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3401.1	7.3			
FM	(30°-60°)	17797.3	38.1			
FH	(60°-80°)	16837.3	36.0			G5
FVH	(80°-90°)	955.0	2.0			G5
BL	(0°-30°)	2146.2	4.6	B3/2500		
BM	(30°-60°)	2602.0	5.6	B3/5000		
BH	(60°-80°)	2864.0	6.1	B4/5000		G4/5000
BVH	(80°-90°)	131.1	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-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	10080.4	10080.4	10080.4	10080.4	10080.4	10080.4	10080.4	10080.4	10080.4	10080.4	10080.4
2.5°	9665.6	9681.7	9732.4	9764.7	9909.9	9972.1	10015.9	10059.7	10066.6	10087.3	10066.6
5°	8651.5	8686.1	8780.6	8886.6	9167.8	9389.0	9621.8	9863.8	9907.6	10064.3	10108.1
7.5°	7865.7	7856.5	7934.8	8061.6	8349.6	8656.2	9064.1	9545.7	9640.2	9992.8	10163.4
10°	7291.8	7284.9	7367.9	7499.2	7773.5	8063.9	8524.8	9183.9	9317.6	9879.9	10216.4
12.5°	6867.8	6870.1	6953.0	7098.2	7377.1	7669.8	8137.6	8833.6	9004.2	9748.5	10271.7
15°	6586.6	6605.0	6671.9	6826.3	7098.2	7390.9	7849.5	8570.9	8762.2	9644.8	10333.9
17.5°	6492.1	6522.1	6545.1	6658.0	6890.8	7183.5	7632.9	8377.3	8580.1	9573.4	10389.2
20°	6579.7	6614.3	6570.5	6609.7	6757.1	7015.3	7462.4	8225.2	8432.6	9492.7	10396.1
22.5°	6955.3	6987.6	6858.6	6745.6	6736.4	6893.1	7321.8	8105.3	8319.7	9432.8	10398.4
25°	7616.8	7637.5	7420.9	7158.2	6902.3	6849.3	7222.7	8022.4	8250.5	9379.8	10354.7
27.5°	8428.0	8444.1	8195.2	7808.1	7294.1	6953.0	7188.1	7974.0	8211.4	9333.7	10280.9
30°	9414.4	9490.4	9156.3	8667.7	7918.7	7259.6	7257.2	7948.6	8167.6	9255.4	10135.7
32.5°	10423.8	10456.1	10225.6	9730.1	8759.9	7798.8	7450.8	7967.1	8156.1	9160.9	9951.4
35°	11447.0	11488.5	11338.7	10940.0	9909.9	8589.3	7828.8	8075.4	8227.5	9128.6	9822.3
37.5°	12772.2	12827.5	12620.1	12159.2	11308.8	9661.0	8458.0	8347.3	8446.4	9220.8	9783.1
40°	14867.1	14841.8	14235.6	13548.9	12839.0	11032.2	9356.8	8808.3	8865.9	9518.1	9903.0
42.5°	17305.4	17243.2	16199.2	15120.6	14521.4	12691.5	10545.9	9608.0	9596.4	10103.5	10324.7
45°	19250.5	19199.8	18259.5	16929.7	16450.4	14581.3	12083.1	10799.5	10714.2	11032.2	11103.7
47.5°	20303.7	20306.0	19764.4	18678.9	18667.4	16982.7	14058.2	12523.3	12375.8	12525.6	12449.6
50°	19935.0	19983.4	19925.7	19580.1	20690.9	20130.9	16637.1	14927.0	14629.7	14777.2	14484.5
52.5°	18151.2	18213.4	18554.5	19084.6	21541.3	23935.8	20425.8	17913.8	17568.1	17515.1	17190.2
55°	14989.3	15065.3	15761.3	17201.7	20833.8	26491.6	26404.0	21721.0	21170.2	20670.1	20531.9
57.5°	10331.6	10458.4	11578.4	13717.1	18545.3	27263.7	33523.0	27148.4	26028.4	24281.5	24313.7
60°	5823.8	5971.3	7291.8	9234.6	13926.8	26424.8	38938.9	35369.0	33004.5	28510.5	28750.1
62.5°	3703.5	3862.5	4865.1	6416.1	8356.6	21907.7	41158.2	46797.6	43794.7	33723.5	33958.6
65°	2998.3	3067.4	3539.9	5296.0	6068.1	13198.6	39473.5	56212.0	55091.9	40340.1	39243.1
67.5°	2926.9	2949.9	3194.2	4445.6	5819.2	7418.6	31485.7	57972.7	59214.9	46518.8	41444.0
70°	2892.3	2973.0	3599.8	4242.8	5572.6	6257.0	18920.9	53146.8	55108.1	48134.3	38514.8
72.5°	1403.5	1398.9	1811.4	3837.2	6277.8	6489.8	9720.9	43001.9	44970.1	41702.1	31649.4
75°	1131.6	1034.8	988.7	1405.8	6035.8	6701.8	6194.8	29589.0	31013.3	27959.7	19455.6
77.5°	1074.0	958.7	878.1	880.4	2551.2	7107.4	5247.6	16376.6	16791.5	12629.3	5330.6
80°	889.6	783.6	726.0	818.1	1235.3	6768.7	5674.0	7411.7	6800.9	3102.0	1774.6
82.5°	617.6	562.3	546.2	686.8	988.7	4823.6	6598.1	3982.4	3339.4	1553.3	1094.7
85°	394.1	336.5	373.3	500.1	769.7	2226.3	6796.3	3104.3	2468.2	986.4	617.6
87.5°	182.1	147.5	184.4	276.6	502.4	767.4	6466.8	3486.9	2542.0	520.8	389.5
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°	10080.4	10080.4	10080.4	10080.4	10080.4	10080.4	10080.4	10080.4	10080.4	10080.4	10080.4
2.5°	10085.0	10041.2	10006.7	9942.1	9870.7	9801.6	9739.3	9661.0	9637.9	9617.2	9649.4
5°	10117.3	10073.5	9946.7	9748.5	9529.6	9324.5	9119.4	8944.2	8835.9	8776.0	8810.6
7.5°	10165.7	10103.5	9840.7	9476.6	9082.5	8723.0	8351.9	8054.6	7835.7	7732.0	7762.0
10°	10209.5	10089.6	9661.0	9114.8	8538.6	8003.9	7418.6	6934.6	6575.1	6386.1	6432.2
12.5°	10227.9	10036.6	9409.8	8663.1	7872.6	7089.0	6227.1	5503.4	4987.2	4798.2	4759.0
15°	10246.3	9976.7	9133.2	8149.1	7068.3	5959.7	4752.1	3885.6	3456.9	3362.4	3341.7
17.5°	10251.0	9873.0	8819.8	7591.4	6125.7	4616.2	3249.5	2698.7	2701.0	2853.1	2871.6
20°	10202.6	9718.6	8439.5	6897.7	4996.4	3191.9	2230.9	2136.4	2484.4	2864.6	2910.7
22.5°	10091.9	9513.5	8008.6	6088.8	3703.5	2101.8	1726.2	1829.9	2279.3	2744.8	2797.8
25°	9951.4	9264.6	7499.2	5150.8	2452.1	1502.6	1447.3	1574.1	1878.3	2189.4	2219.3
27.5°	9760.1	8969.6	6927.7	4076.9	1592.5	1237.6	1274.5	1359.7	1484.2	1622.5	1636.3
30°	9513.5	8617.0	6317.0	2973.0	1203.0	1113.1	1166.1	1212.2	1265.2	1343.6	1350.5
32.5°	9230.0	8278.2	5690.1	2053.4	1067.0	1048.6	1090.1	1113.1	1154.6	1203.0	1207.6
35°	8992.6	7955.5	5040.2	1451.9	1009.4	1000.2	1027.9	1037.1	1076.3	1129.3	1133.9
37.5°	8856.7	7692.8	4369.6	1170.7	970.2	956.4	972.5	972.5	1027.9	1106.2	1117.7
40°	8865.9	7547.6	3698.9	1057.8	938.0	919.5	921.8	921.8	993.3	1078.6	1085.5
42.5°	9117.1	7584.5	3104.3	1014.0	912.6	891.9	880.4	887.3	947.2	1002.5	1007.1
45°	9707.1	7844.9	2546.6	986.4	887.3	880.4	855.0	852.7	875.8	901.1	901.1
47.5°	10675.0	8358.9	2168.6	967.9	866.5	864.2	834.3	804.3	802.0	811.2	811.2
50°	12249.1	9243.8	1915.1	947.2	852.7	834.3	799.7	753.6	737.5	744.4	744.4
52.5°	14609.0	10822.5	1818.3	919.5	822.7	792.8	753.6	707.5	693.7	696.0	696.0
55°	17704.1	13247.0	1804.5	887.3	790.5	742.1	709.8	675.3	659.1	663.7	663.7
57.5°	21486.0	16600.2	2051.1	836.6	746.7	691.4	672.9	649.9	638.4	645.3	643.0
60°	26083.7	20988.2	3042.1	783.6	702.9	645.3	645.3	626.9	617.6	624.6	622.2
62.5°	31379.7	26028.4	4277.4	744.4	656.8	608.4	617.6	608.4	599.2	603.8	601.5
65°	36076.5	29312.5	4005.4	714.4	610.7	573.9	590.0	585.4	578.5	583.1	580.8
67.5°	36212.5	28095.6	2249.3	682.2	566.9	539.3	562.3	560.0	555.4	560.0	557.7
70°	32317.7	23723.8	1267.5	622.2	520.8	497.8	530.1	527.8	523.1	532.4	530.1
72.5°	25892.4	17215.5	926.5	548.5	474.8	454.0	490.9	488.6	488.6	502.4	495.5
75°	14899.4	8859.0	739.8	470.1	426.4	410.2	442.5	444.8	449.4	467.8	454.0
77.5°	4247.4	2760.9	603.8	398.7	366.4	359.5	391.8	396.4	398.7	419.4	401.0
80°	1578.7	1272.2	497.8	334.2	299.6	301.9	331.9	338.8	341.1	361.8	338.8
82.5°	1007.1	838.9	403.3	258.1	235.1	232.8	269.6	278.9	278.9	281.2	267.3
85°	587.7	502.4	304.2	186.7	165.9	159.0	200.5	216.6	209.7	205.1	195.9
87.5°	394.1	345.7	186.7	103.7	89.9	85.3	117.5	129.1	124.4	117.5	110.6
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)