

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: P191975

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-SL3-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42106 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

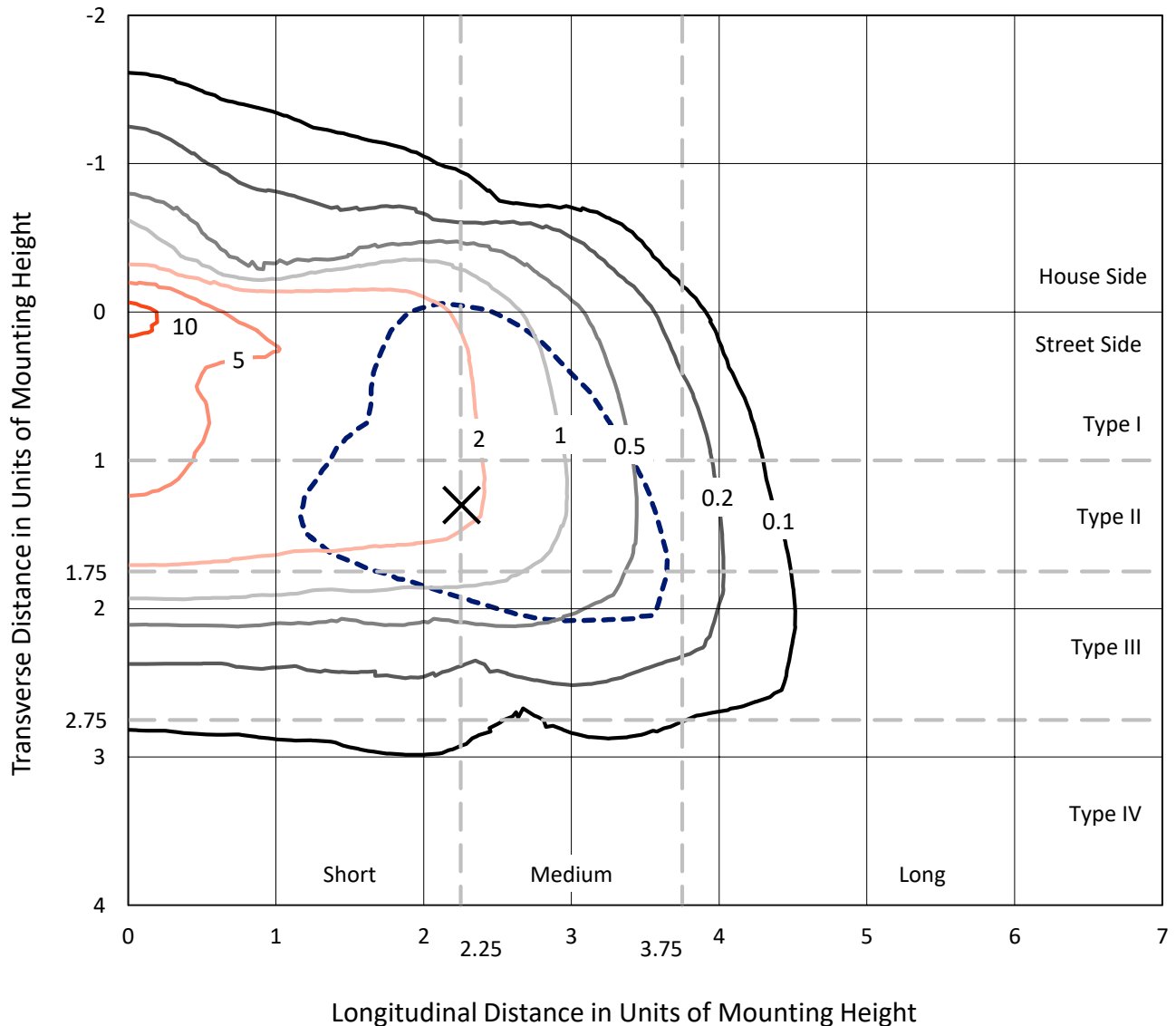
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

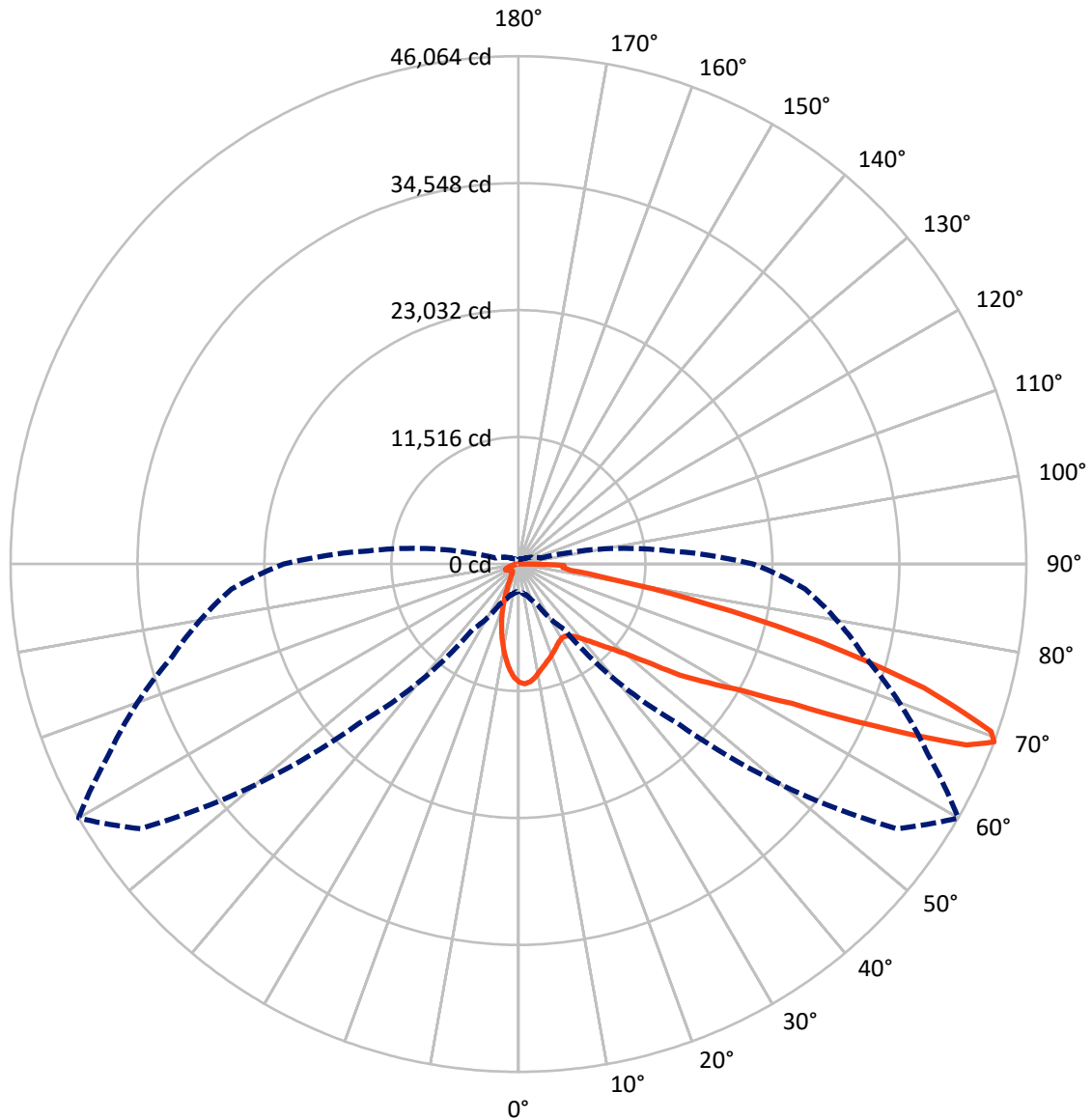
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5990.4	0.0	5990.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	36115.6	0.0	36115.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	42106.0	0.0	42106.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	907.2	2.2
10°-20°	1932.8	4.6
20°-30°	2462.8	5.8
30°-40°	3385.7	8.0
40°-50°	5493.6	13.0
50°-60°	8810.4	20.9
60°-70°	11726.0	27.8
70°-80°	6331.1	15.0
80°-90°	1056.4	2.5
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°	42106.0	100.0
0°-180°	42106.0	100.0

Coefficient of Utilization



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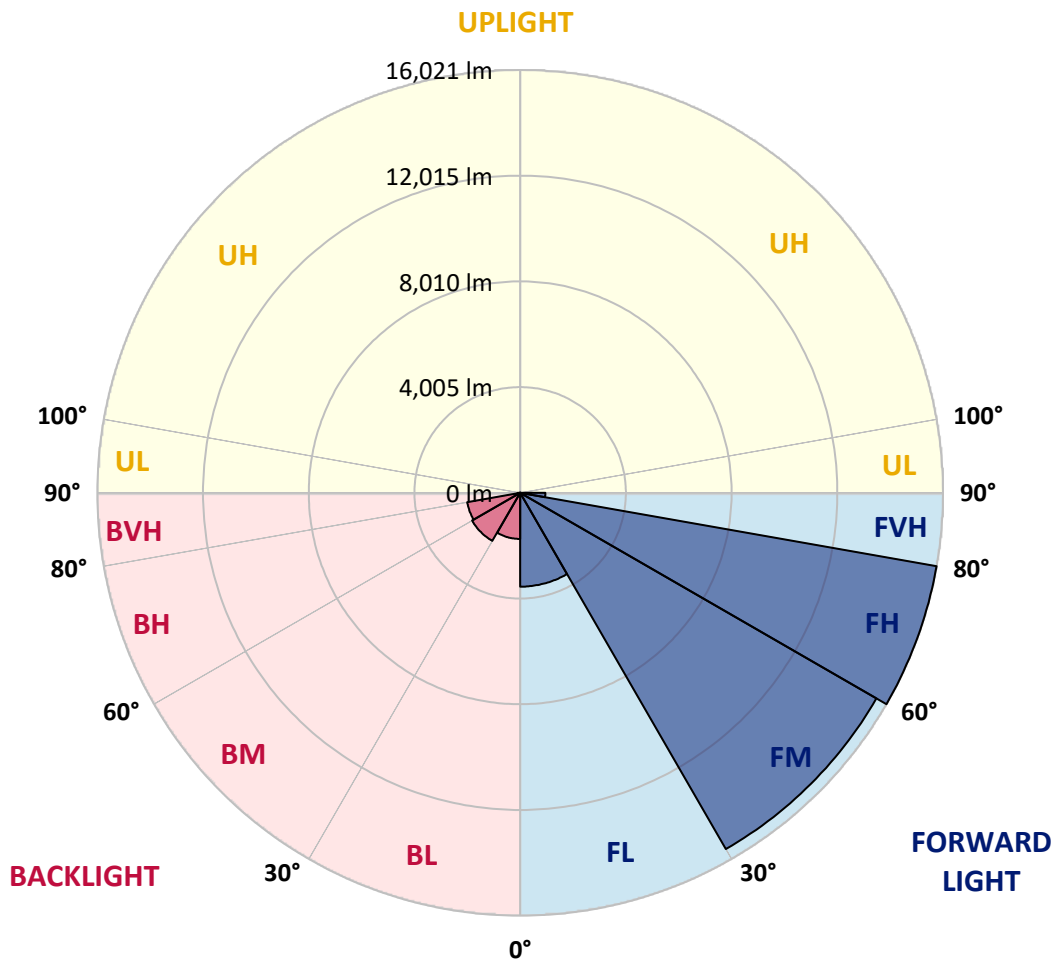
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3555.3	8.4			
FM	(30°-60°)	15585.2	37.0			
FH	(60°-80°)	16020.5	38.0			G5
FVH	(80°-90°)	954.7	2.3			G5
BL	(0°-30°)	1747.6	4.2	B3/2500		
BM	(30°-60°)	2104.5	5.0	B2/2500		
BH	(60°-80°)	2036.5	4.8	B3/2500		G3/2500
BVH	(80°-90°)	101.7	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	10729.2	10729.2	10729.2	10729.2	10729.2	10729.2	10729.2	10729.2	10729.2	10729.2	10729.2
2.5°	10948.9	10973.3	10963.2	10957.1	10975.4	10946.9	10887.9	10869.6	10841.1	10774.0	10660.1
5°	10538.1	10611.3	10607.2	10662.1	10753.7	10778.1	10751.6	10755.7	10702.8	10619.4	10430.3
7.5°	9828.2	9858.7	9875.0	9995.0	10161.8	10296.0	10409.9	10446.5	10422.1	10350.9	10106.9
10°	9096.0	9120.4	9159.0	9299.4	9510.9	9696.0	9911.6	10035.7	10088.5	10076.3	9803.8
12.5°	8467.5	8491.9	8542.7	8701.4	8953.6	9181.4	9494.6	9649.2	9775.3	9850.6	9557.7
15°	7904.0	7956.9	8005.7	8188.8	8471.5	8770.5	9124.4	9319.7	9515.0	9683.8	9340.0
17.5°	7464.7	7517.6	7546.1	7712.9	8013.9	8380.0	8794.9	9024.8	9268.9	9545.5	9124.4
20°	7210.5	7234.9	7222.7	7316.2	7586.7	7975.2	8467.5	8733.9	9028.8	9415.3	8908.8
22.5°	7139.3	7141.3	7096.6	7086.4	7261.3	7588.8	8117.6	8441.0	8803.1	9329.9	8723.7
25°	7312.2	7306.1	7184.0	7084.4	7102.7	7293.9	7780.0	8156.3	8613.9	9311.6	8581.4
27.5°	7696.6	7714.9	7533.9	7346.7	7161.6	7155.5	7523.7	7920.3	8459.3	9395.0	8520.3
30°	8235.6	8266.1	8072.9	7834.9	7487.1	7200.3	7424.0	7780.0	8363.7	9567.8	8510.2
32.5°	8825.4	8858.0	8711.5	8461.4	8005.7	7476.9	7493.2	7792.2	8359.7	9809.9	8579.3
35°	9453.9	9490.6	9415.3	9203.8	8697.3	7987.4	7757.6	7989.5	8491.9	10180.1	8764.4
37.5°	10155.7	10212.6	10233.0	10031.6	9490.6	8660.7	8190.8	8363.7	8790.9	10694.7	9104.1
40°	11166.6	11245.9	11239.8	10951.0	10399.7	9569.9	8860.0	8904.8	9256.6	11382.2	9647.2
42.5°	13102.9	13119.2	12612.7	11984.2	11400.5	10525.9	9649.2	9612.6	9899.4	12252.7	10446.5
45°	15566.1	15498.9	14372.1	13157.8	12445.9	11624.2	10676.4	10497.4	10715.0	13314.4	11447.2
47.5°	17610.2	17455.6	16031.8	14355.8	13552.4	12818.1	11882.5	11569.3	11689.3	14518.6	12740.9
50°	18320.1	18204.1	17024.4	15352.5	14599.9	14274.5	13367.3	12923.9	12956.5	15954.5	14256.2
52.5°	18167.5	18151.2	17364.1	16009.5	15580.3	15804.0	15470.5	14870.4	14553.1	17549.2	15891.5
55°	17807.5	17842.1	17557.3	16774.2	16701.0	17280.7	18218.4	17775.0	16788.5	19158.1	17581.7
57.5°	16556.6	16646.1	17272.6	17736.3	18505.2	19367.6	20431.3	20305.2	19194.7	20897.1	19591.3
60°	13338.8	13546.3	15226.4	17549.2	20362.2	23059.2	23535.2	23242.3	21676.1	23055.2	22245.6
62.5°	9346.1	9561.7	11559.1	15193.8	20057.1	27228.9	29083.9	27820.8	25239.7	26234.3	25681.0
65°	5003.6	5107.3	6632.8	10542.1	16932.9	28089.3	37193.4	35271.3	30881.9	30153.8	28620.1
67.5°	2760.1	2817.1	3400.8	5322.9	10845.2	24735.2	42359.7	43811.9	37933.7	32763.4	28085.2
69°	2495.7	2548.6	2931.0	4031.3	7257.2	20451.7	41855.3	46063.6	41025.4	32505.0	26108.2
70°	2440.8	2489.6	2833.3	3716.1	5874.1	16857.6	40165.0	45487.9	41761.7	31579.6	24383.4
72.5°	2196.7	2249.6	2583.2	3337.8	5019.9	8404.4	31815.5	38460.5	37915.4	27381.4	18495.0
75°	2048.2	2097.0	2662.5	3268.6	4806.3	5318.9	20974.4	28345.6	27871.6	19154.0	9972.6
77.5°	876.6	872.6	1234.6	2766.2	4877.5	5150.0	11270.3	17707.8	16155.9	8186.8	2863.8
80°	585.8	575.6	585.8	813.6	4472.7	5178.5	5904.6	8988.2	6789.4	2086.9	1411.6
82.5°	504.4	496.3	514.6	496.3	1572.3	5910.7	5019.9	4779.9	3227.9	1185.8	699.7
85°	339.7	325.4	443.4	445.4	742.4	5251.7	5654.5	4037.5	2611.6	703.8	345.8
87.5°	162.7	158.7	258.3	315.3	435.3	2133.6	6344.0	4137.1	2634.0	360.0	164.8
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°	10729.2	10729.2	10729.2	10729.2	10729.2	10729.2	10729.2	10729.2	10729.2	10729.2	10729.2
2.5°	10625.5	10542.1	10460.8	10363.1	10261.4	10147.5	10090.6	10033.6	10019.4	10003.1	9946.2
5°	10332.6	10214.7	10011.3	9787.5	9551.6	9321.7	9146.8	9037.0	8953.6	8910.9	8835.6
7.5°	9954.3	9781.4	9425.5	9039.0	8642.4	8280.3	7967.1	7769.8	7582.7	7495.2	7395.6
10°	9594.3	9336.0	8782.7	8213.2	7643.7	7096.6	6582.0	6217.9	5894.5	5713.5	5585.3
12.5°	9285.1	8931.2	8164.4	7393.5	6612.5	5833.5	5062.6	4456.5	3950.0	3683.5	3547.3
15°	8984.1	8557.0	7576.6	6598.2	5595.5	4535.8	3522.9	2835.4	2416.4	2249.6	2192.6
17.5°	8711.5	8164.4	6986.7	5796.8	4545.9	3264.5	2367.6	1989.2	1828.5	1773.6	1755.3
20°	8416.6	7767.8	6374.5	4958.8	3451.7	2282.1	1848.9	1682.1	1617.0	1600.7	1592.6
22.5°	8131.9	7377.2	5788.7	4061.9	2479.4	1761.4	1588.5	1519.4	1509.2	1523.5	1523.5
25°	7889.8	7027.4	5156.1	3124.2	1820.4	1482.8	1421.8	1405.5	1444.1	1497.0	1507.2
27.5°	7708.8	6740.6	4482.9	2306.5	1450.2	1289.5	1287.5	1314.0	1409.5	1511.2	1531.6
30°	7584.7	6468.1	3762.9	1663.8	1216.3	1135.0	1167.5	1224.5	1364.8	1509.2	1547.9
32.5°	7521.7	6266.7	3012.3	1287.5	1041.4	996.7	1051.6	1120.7	1259.0	1393.3	1444.1
35°	7570.5	6118.2	2304.5	1073.9	919.4	884.8	941.7	1008.9	1090.2	1147.2	1185.8
37.5°	7753.5	6059.2	1739.1	962.1	836.0	803.4	848.2	886.8	919.4	935.6	953.9
40°	8148.1	6122.3	1393.3	905.1	789.2	748.5	766.8	781.0	801.4	817.7	825.8
42.5°	8729.8	6311.4	1248.9	882.7	764.8	705.8	701.7	707.8	734.3	764.8	770.9
45°	9543.4	6645.0	1238.7	897.0	752.6	671.2	652.9	661.0	701.7	748.5	756.6
47.5°	10582.8	7153.5	1320.1	939.7	762.7	652.9	622.4	632.6	683.4	746.5	756.6
50°	11841.8	7863.4	1456.3	1002.8	807.5	657.0	612.2	618.3	671.2	740.4	750.5
52.5°	13328.7	8870.2	1604.8	1063.8	854.3	683.4	620.4	606.1	654.9	716.0	728.2
55°	14982.3	10161.8	1757.4	1118.7	878.7	716.0	636.6	589.9	624.4	675.3	685.5
57.5°	17012.2	11967.9	2021.8	1171.6	895.0	738.3	652.9	573.6	585.8	622.4	630.5
60°	19760.1	14522.6	2487.6	1259.0	931.6	746.5	650.9	559.3	547.1	567.5	571.5
62.5°	23053.1	17297.0	2876.0	1368.9	992.6	752.6	638.7	549.2	514.6	514.6	518.7
65°	25007.8	18039.4	2660.4	1460.4	1043.4	746.5	624.4	539.0	490.2	467.8	469.8
67.5°	23350.1	15865.0	2280.1	1478.7	1041.4	718.0	602.1	520.7	465.8	431.2	429.2
69°	21273.4	13688.7	2109.2	1429.9	992.6	681.4	573.6	500.4	447.5	410.9	408.8
70°	19599.4	12360.5	1997.4	1377.0	939.7	654.9	551.2	482.1	433.2	398.7	394.6
72.5°	14250.1	8099.3	1706.5	1183.8	774.9	549.2	476.0	423.1	386.5	366.1	362.0
75°	7121.0	3862.5	1385.1	960.0	593.9	439.3	390.5	353.9	335.6	331.5	329.5
77.5°	2339.1	1769.6	990.5	716.0	441.4	343.7	315.3	288.8	284.8	297.0	292.9
80°	1285.5	1029.2	628.5	473.9	301.0	252.2	248.1	233.9	240.0	260.3	256.3
82.5°	654.9	534.9	388.5	284.8	203.4	181.0	197.3	189.2	197.3	215.6	213.6
85°	323.4	292.9	246.1	172.9	134.2	115.9	140.3	146.4	150.5	164.8	164.8
87.5°	187.1	172.9	130.2	81.4	67.1	61.0	81.4	79.3	93.6	101.7	99.7
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)