

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: P193717

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193717
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-09-LED-E1-SL3-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 43426 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

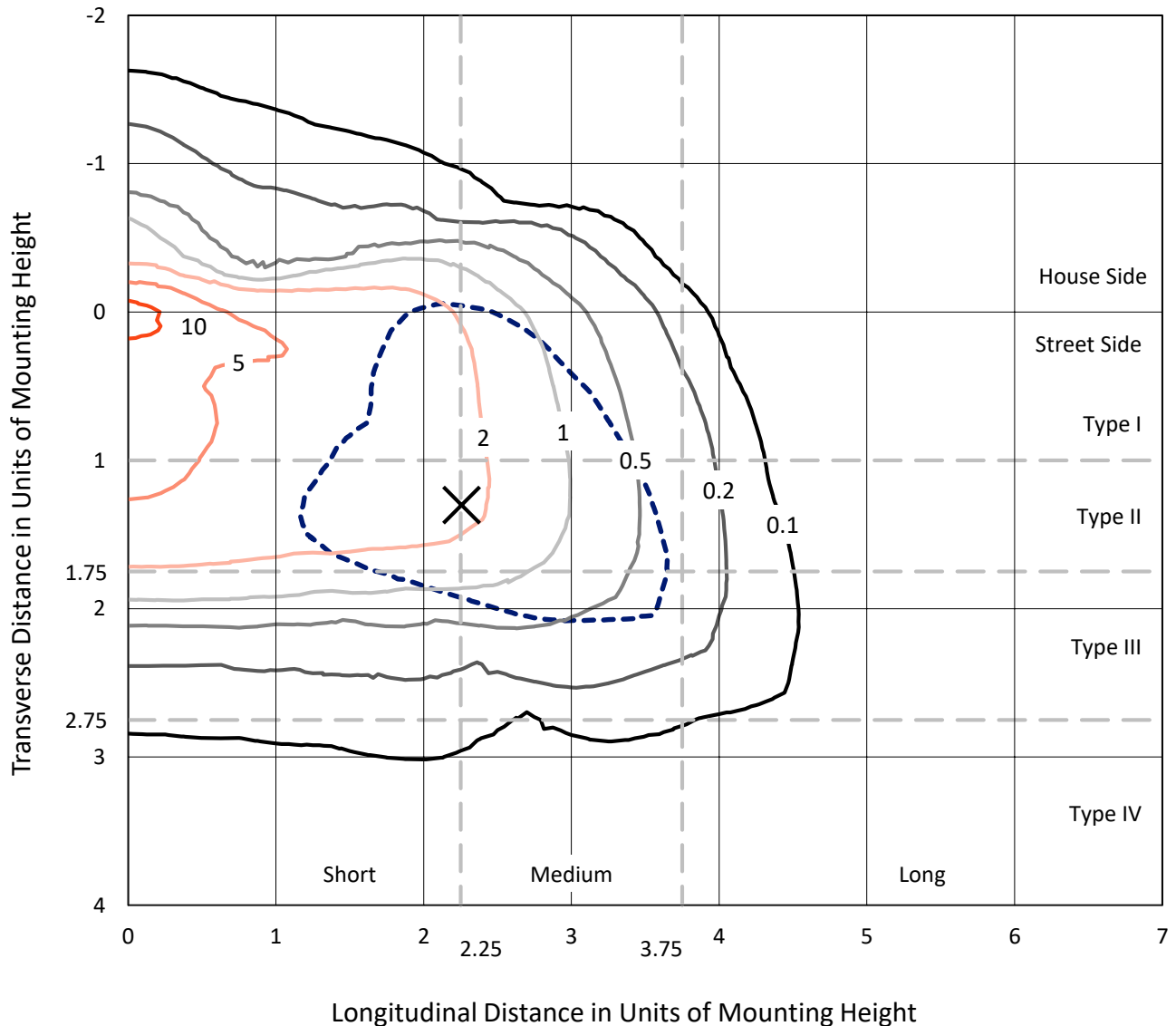
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

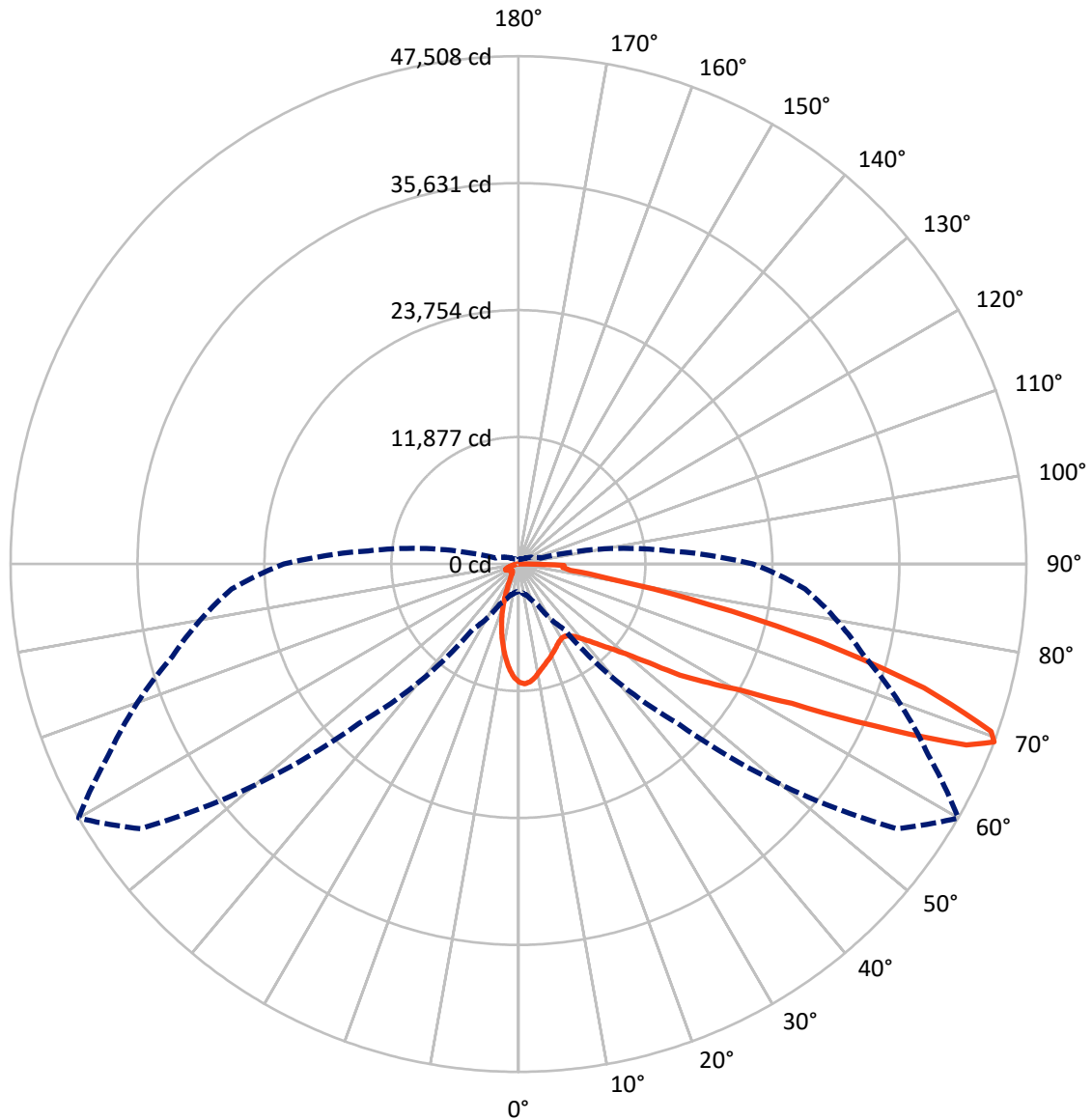
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 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	6178.2	0.0	6178.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	37247.8	0.0	37247.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	43426.0	0.0	43426.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	935.6	2.2
10°-20°	1993.4	4.6
20°-30°	2540.0	5.8
30°-40°	3491.8	8.0
40°-50°	5665.9	13.0
50°-60°	9086.6	20.9
60°-70°	12093.6	27.8
70°-80°	6529.6	15.0
80°-90°	1089.5	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°	43426.0	100.0
0°-180°	43426.0	100.0

Coefficient of Utilization



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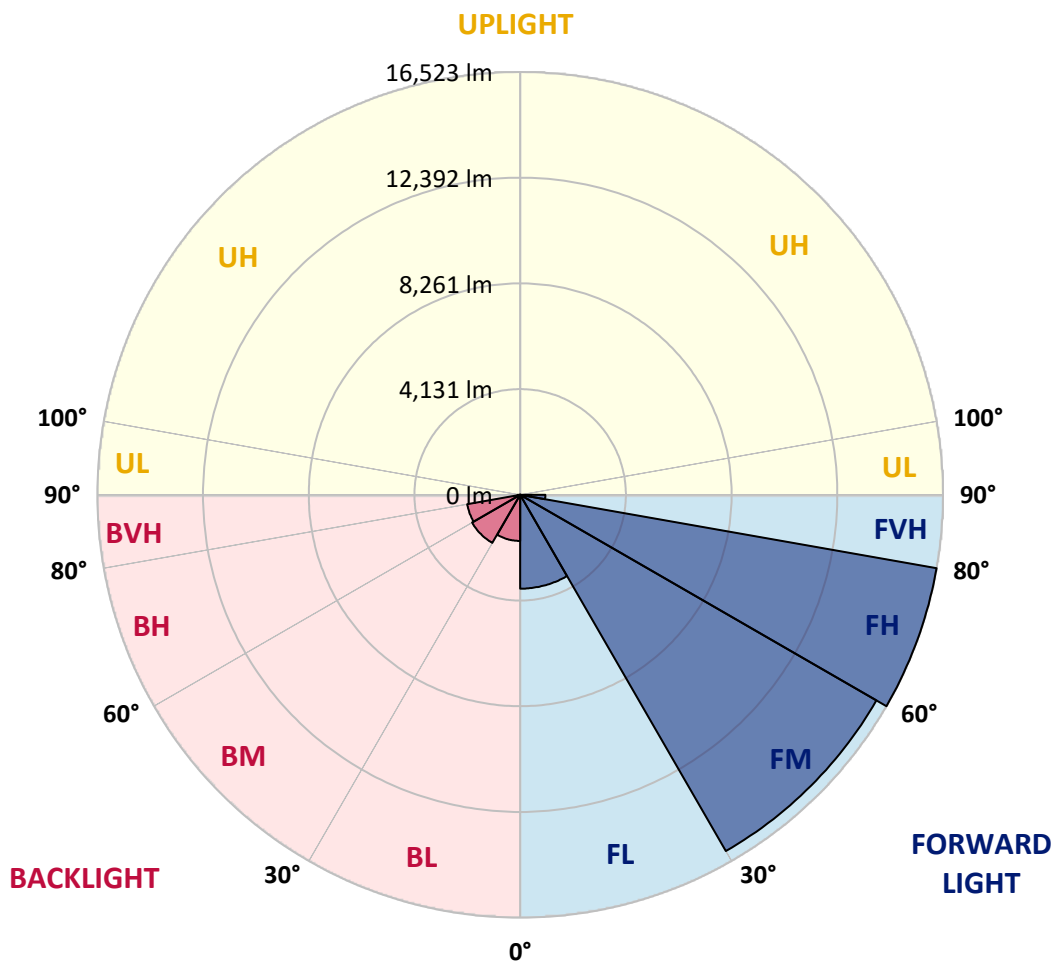
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3666.7	8.4			
FM	(30°-60°)	16073.8	37.0			
FH	(60°-80°)	16522.8	38.0			G5
FVH	(80°-90°)	984.6	2.3			G5
BL	(0°-30°)	1802.4	4.2	B3/2500		
BM	(30°-60°)	2170.5	5.0	B2/2500		
BH	(60°-80°)	2100.4	4.8	B3/2500		G3/2500
BVH	(80°-90°)	104.9	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°	11065.6	11065.6	11065.6	11065.6	11065.6	11065.6	11065.6	11065.6	11065.6	11065.6	11065.6
2.5°	11292.2	11317.3	11306.8	11300.6	11319.4	11290.1	11229.2	11210.3	11181.0	11111.8	10994.3
5°	10868.4	10943.9	10939.7	10996.4	11090.8	11116.0	11088.7	11092.9	11038.3	10952.3	10757.2
7.5°	10136.3	10167.8	10184.6	10308.3	10480.3	10618.8	10736.3	10774.0	10748.8	10675.4	10423.7
10°	9381.1	9406.3	9446.1	9590.9	9809.1	9999.9	10222.3	10350.3	10404.8	10392.2	10111.1
12.5°	8732.9	8758.1	8810.5	8974.2	9234.3	9469.2	9792.3	9951.7	10081.8	10159.4	9857.3
15°	8151.8	8206.4	8256.7	8445.5	8737.1	9045.5	9410.5	9611.9	9813.3	9987.4	9632.8
17.5°	7698.7	7753.3	7782.6	7954.6	8265.1	8642.7	9070.6	9307.7	9559.4	9844.7	9410.5
20°	7436.5	7461.7	7449.1	7545.6	7824.6	8225.3	8732.9	9007.7	9311.9	9710.5	9188.1
22.5°	7363.1	7365.2	7319.0	7308.5	7488.9	7826.7	8372.1	8705.6	9079.0	9622.4	8997.2
25°	7541.4	7535.1	7409.2	7306.4	7325.3	7522.5	8023.9	8412.0	8883.9	9603.5	8850.4
27.5°	7937.9	7956.7	7770.0	7577.1	7386.2	7379.9	7759.6	8168.6	8724.5	9689.5	8787.5
30°	8493.8	8525.2	8325.9	8080.5	7721.8	7426.0	7656.8	8023.9	8625.9	9867.8	8777.0
32.5°	9102.1	9135.7	8984.6	8726.6	8256.7	7711.3	7728.1	8036.5	8621.7	10117.4	8848.3
35°	9750.3	9788.1	9710.5	9492.3	8970.0	8237.8	8000.8	8239.9	8758.1	10499.2	9039.2
37.5°	10474.0	10532.8	10553.8	10346.1	9788.1	8932.2	8447.6	8625.9	9066.5	11029.9	9389.5
40°	11516.6	11598.4	11592.1	11294.3	10725.8	9869.9	9137.8	9183.9	9546.8	11739.0	9949.6
42.5°	13513.7	13530.5	13008.1	12359.9	11757.9	10855.8	9951.7	9913.9	10209.7	12636.8	10774.0
45°	16054.0	15984.8	14822.7	13570.3	12836.1	11988.6	11011.1	10826.5	11050.9	13731.8	11806.1
47.5°	18162.3	18002.8	16534.4	14805.9	13977.3	13220.0	12255.0	11932.0	12055.7	14973.7	13140.3
50°	18894.4	18774.8	17558.1	15833.8	15057.6	14722.0	13786.4	13329.1	13362.6	16454.7	14703.1
52.5°	18737.1	18720.3	17908.4	16511.3	16068.7	16299.5	15955.4	15336.6	15009.4	18099.3	16389.7
55°	18365.8	18401.4	18107.7	17300.1	17224.6	17822.4	18789.5	18332.2	17314.8	19758.7	18132.9
57.5°	17075.6	17167.9	17814.0	18292.3	19085.3	19974.7	21071.8	20941.8	19796.4	21552.2	20205.5
60°	13757.0	13971.0	15703.7	18099.3	21000.5	23782.1	24273.0	23970.9	22355.7	23777.9	22943.0
62.5°	9639.1	9861.5	11921.5	15670.2	20685.9	28082.5	29995.7	28693.0	26030.9	27056.7	26486.1
65°	5160.5	5267.4	6840.7	10872.6	17463.7	28969.9	38359.4	36377.0	31850.1	31099.1	29517.4
67.5°	2846.6	2905.4	3507.4	5489.8	11185.2	25510.7	43687.6	45185.4	39122.9	33790.5	28965.7
69°	2573.9	2628.5	3022.9	4157.7	7484.8	21092.8	43167.4	47507.6	42311.5	33524.1	26926.7
70°	2517.3	2567.6	2922.2	3832.6	6058.3	17386.1	41424.2	46914.0	43070.9	32569.6	25147.8
72.5°	2265.6	2320.1	2664.1	3442.4	5177.2	8667.9	32812.9	39666.3	39104.1	28239.8	19074.8
75°	2112.4	2162.8	2745.9	3371.1	4957.0	5485.6	21631.9	29234.2	28745.4	19754.5	10285.2
77.5°	904.1	899.9	1273.3	2852.9	5030.4	5311.5	11623.6	18263.0	16662.4	8443.4	2953.6
80°	604.2	593.7	604.2	839.1	4612.9	5340.9	6089.8	9269.9	7002.3	2152.3	1455.8
82.5°	520.2	511.8	530.7	511.8	1621.6	6096.0	5177.2	4929.7	3329.1	1223.0	721.6
85°	350.3	335.6	457.3	459.4	765.7	5416.4	5831.7	4164.0	2693.5	725.8	356.6
87.5°	167.8	163.6	266.4	325.2	448.9	2200.5	6542.9	4266.8	2716.6	371.3	169.9
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°	11065.6	11065.6	11065.6	11065.6	11065.6	11065.6	11065.6	11065.6	11065.6	11065.6	11065.6
2.5°	10958.6	10872.6	10788.7	10688.0	10583.1	10465.6	10406.9	10348.2	10333.5	10316.7	10258.0
5°	10656.5	10534.9	10325.1	10094.3	9851.0	9614.0	9433.6	9320.3	9234.3	9190.2	9112.6
7.5°	10266.4	10088.1	9720.9	9322.4	8913.3	8539.9	8216.9	8013.4	7820.4	7730.2	7627.4
10°	9895.1	9628.6	9058.1	8470.7	7883.3	7319.0	6788.3	6412.8	6079.3	5892.6	5760.4
12.5°	9576.2	9211.2	8420.3	7625.3	6819.8	6016.3	5221.3	4596.2	4073.8	3799.0	3658.5
15°	9265.7	8825.2	7814.1	6805.1	5770.9	4678.0	3633.3	2924.3	2492.1	2320.1	2261.4
17.5°	8984.6	8420.3	7205.8	5978.6	4688.5	3366.9	2441.8	2051.6	1885.9	1829.2	1810.4
20°	8680.5	8011.3	6574.3	5114.3	3559.9	2353.7	1906.9	1734.8	1667.7	1650.9	1642.5
22.5°	8386.8	7608.5	5970.2	4189.2	2557.2	1816.6	1638.3	1567.0	1556.5	1571.2	1571.2
25°	8137.2	7247.7	5317.8	3222.1	1877.5	1529.3	1466.3	1449.5	1489.4	1543.9	1554.4
27.5°	7950.5	6951.9	4623.4	2378.8	1495.7	1330.0	1327.9	1355.1	1453.7	1558.6	1579.6
30°	7822.5	6670.8	3880.8	1716.0	1254.5	1170.5	1204.1	1262.8	1407.6	1556.5	1596.4
32.5°	7757.5	6463.2	3106.8	1327.9	1074.0	1027.9	1084.5	1155.9	1298.5	1437.0	1489.4
35°	7807.8	6310.0	2376.7	1107.6	948.2	912.5	971.3	1040.5	1124.4	1183.1	1223.0
37.5°	7996.6	6249.2	1793.6	992.2	862.2	828.6	874.8	914.6	948.2	965.0	983.8
40°	8403.6	6314.2	1437.0	933.5	813.9	772.0	790.8	805.5	826.5	843.3	851.7
42.5°	9003.5	6509.3	1288.0	910.4	788.8	727.9	723.7	730.0	757.3	788.8	795.0
45°	9842.6	6853.3	1277.5	925.1	776.2	692.3	673.4	681.8	723.7	772.0	780.4
47.5°	10914.6	7377.8	1361.4	969.2	786.7	673.4	641.9	652.4	704.8	769.9	780.4
50°	12213.1	8109.9	1502.0	1034.2	832.8	677.6	631.4	637.7	692.3	763.6	774.1
52.5°	13746.5	9148.3	1655.1	1097.1	881.1	704.8	639.8	625.1	675.5	738.4	751.0
55°	15452.0	10480.3	1812.5	1153.8	906.2	738.4	656.6	608.3	644.0	696.5	706.9
57.5°	17545.5	12343.1	2085.2	1208.3	923.0	761.5	673.4	591.6	604.2	641.9	650.3
60°	20379.6	14977.9	2565.5	1298.5	960.8	769.9	671.3	576.9	564.3	585.3	589.5
62.5°	23775.8	17839.2	2966.2	1411.8	1023.7	776.2	658.7	566.4	530.7	530.7	534.9
65°	25791.8	18604.9	2743.9	1506.2	1076.1	769.9	644.0	555.9	505.6	482.5	484.6
67.5°	24082.1	16362.4	2351.6	1525.1	1074.0	740.5	620.9	537.0	480.4	444.7	442.6
69°	21940.3	14117.8	2175.4	1474.7	1023.7	702.7	591.6	516.0	461.5	423.7	421.6
70°	20213.9	12748.0	2060.0	1420.2	969.2	675.5	568.5	497.2	446.8	411.2	407.0
72.5°	14696.8	8353.2	1760.0	1220.9	799.2	566.4	490.9	436.3	398.6	377.6	373.4
75°	7344.2	3983.6	1428.6	990.1	612.5	453.1	402.8	365.0	346.1	341.9	339.8
77.5°	2412.4	1825.0	1021.6	738.4	455.2	354.5	325.2	297.9	293.7	306.3	302.1
80°	1325.8	1061.5	648.2	488.8	310.5	260.1	255.9	241.2	247.5	268.5	264.3
82.5°	675.5	551.7	400.7	293.7	209.8	186.7	203.5	195.1	203.5	222.4	220.3
85°	333.5	302.1	253.8	178.3	138.5	119.6	144.7	151.0	155.2	169.9	169.9
87.5°	193.0	178.3	134.3	83.9	69.2	62.9	83.9	81.8	96.5	104.9	102.8
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)