

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: P191984

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191984
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-06-LED-E1-SL3-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1200mA 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: 39057 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 382
Input Voltage (V): NR
Input Current (A_{in}): 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

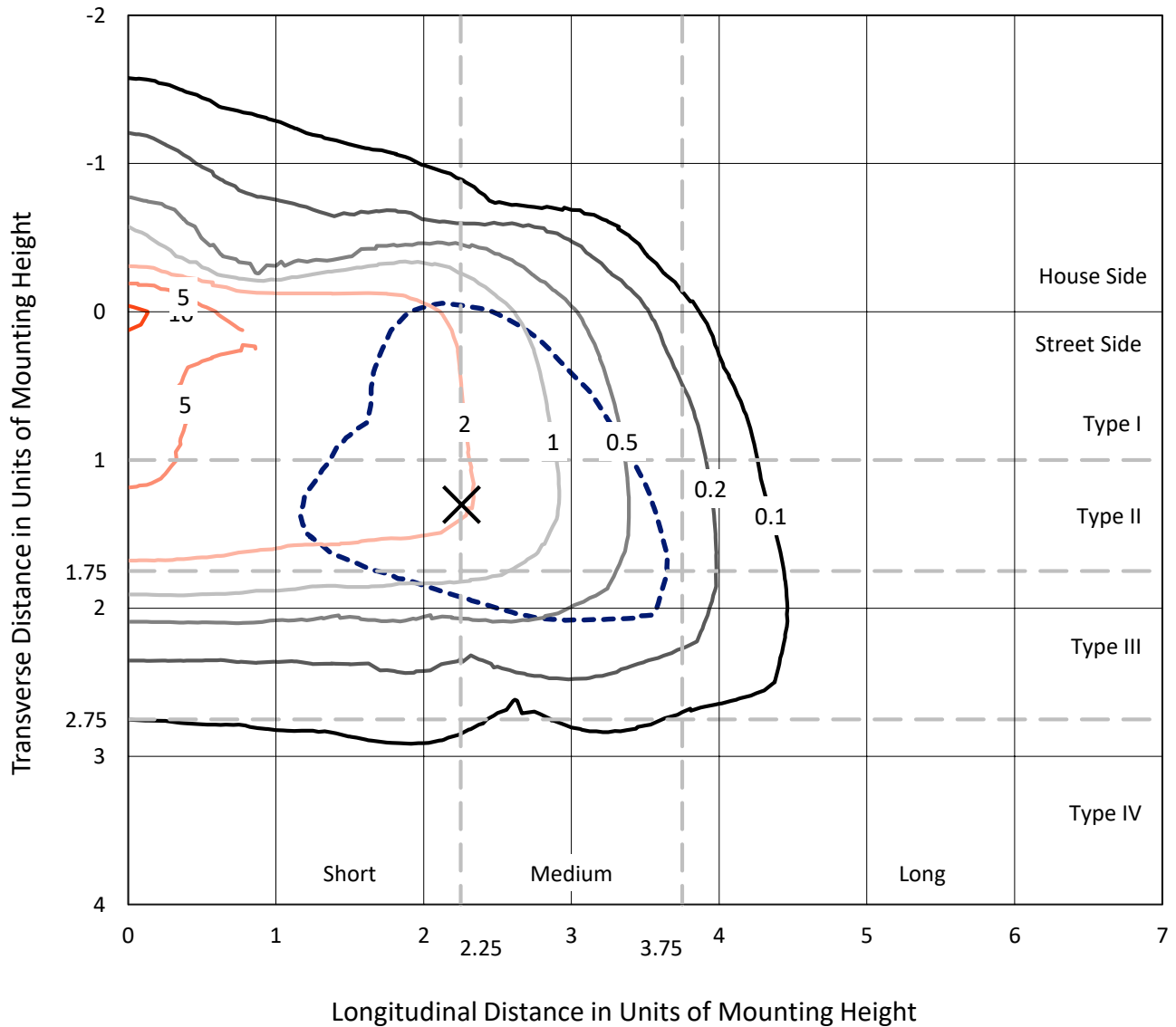


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

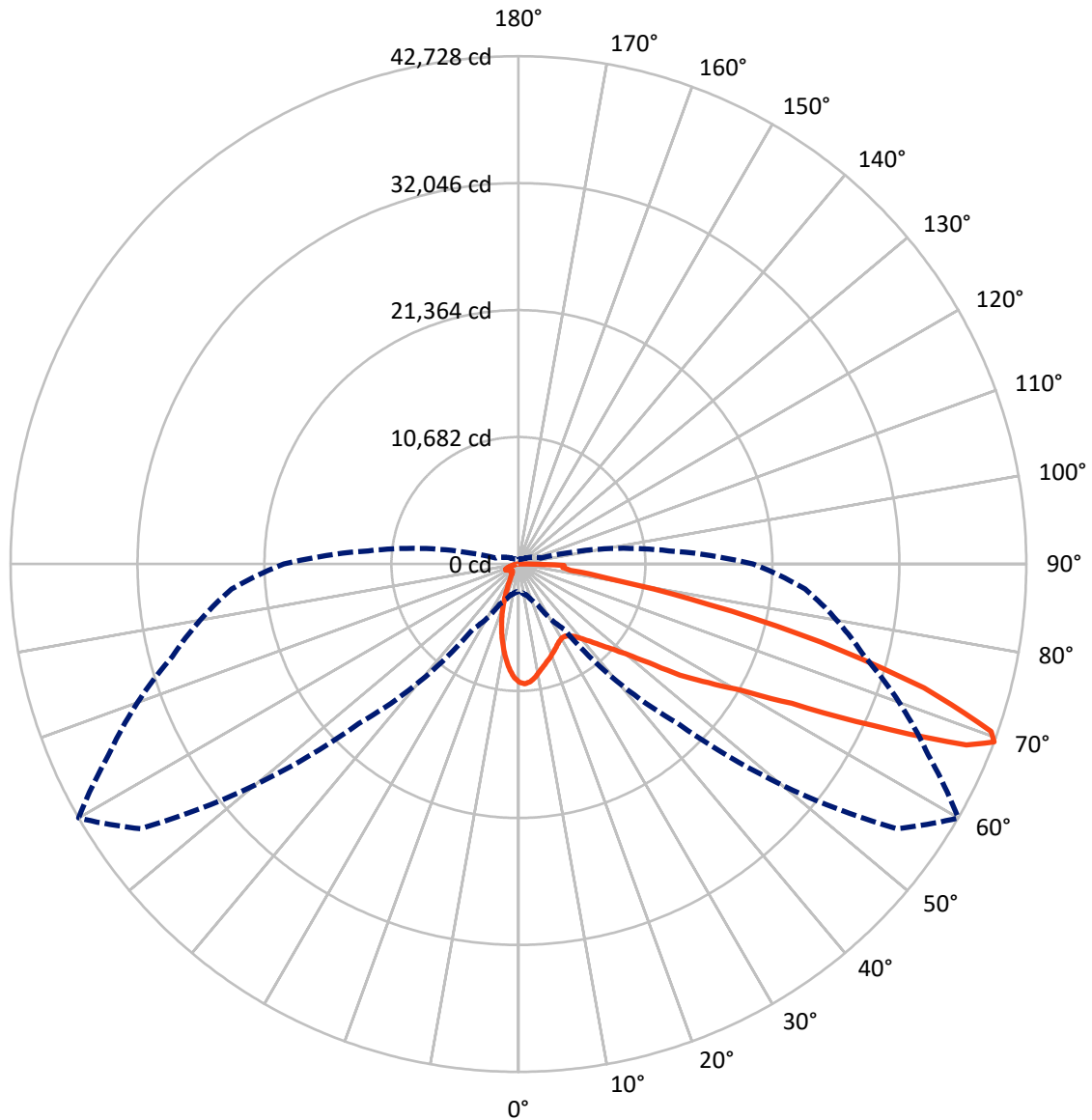


Based on 30 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Medium - Non-Cutoff

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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	5556.6	0.0	5556.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	33500.4	0.0	33500.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	39057.0	0.0	39057.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	841.5	2.2
10°-20°	1792.9	4.6
20°-30°	2284.5	5.8
30°-40°	3140.5	8.0
40°-50°	5095.8	13.0
50°-60°	8172.4	20.9
60°-70°	10876.8	27.8
70°-80°	5872.7	15.0
80°-90°	979.9	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°	39057.0	100.0
0°-180°	39057.0	100.0



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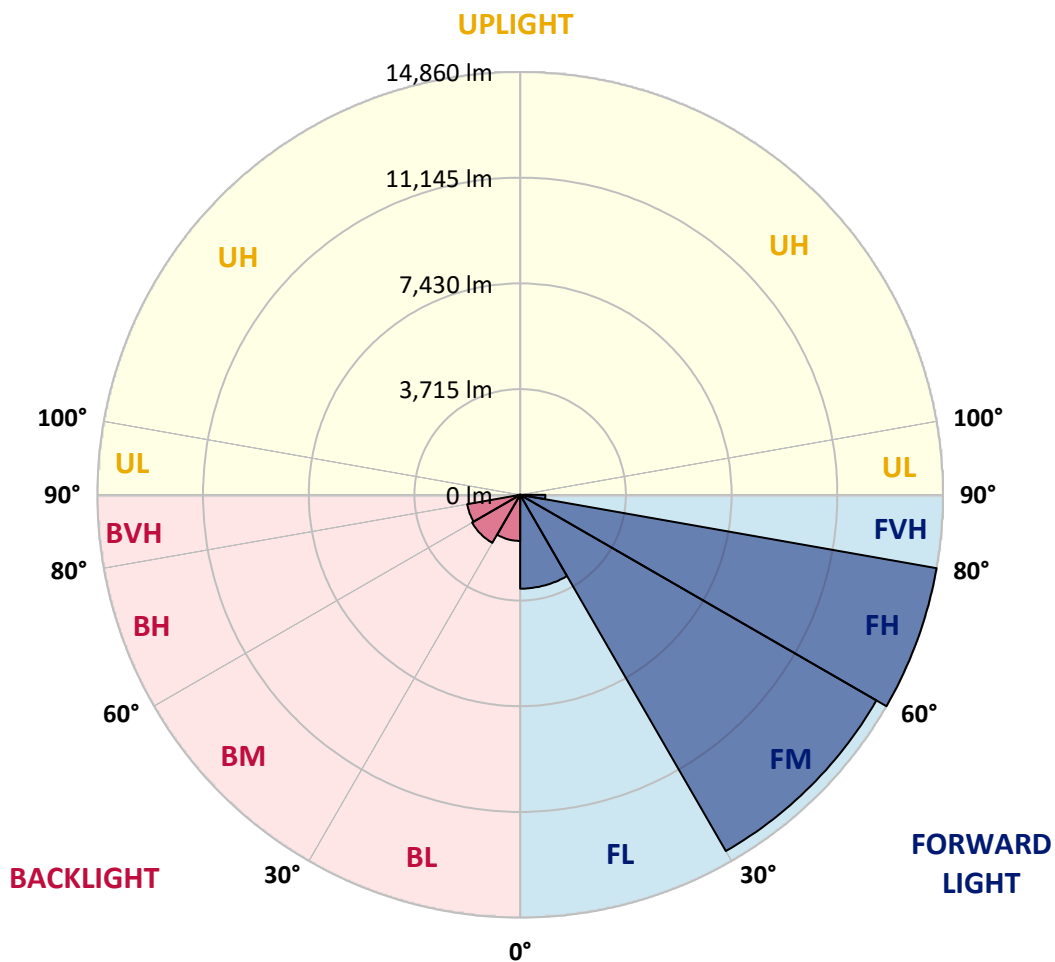
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3297.8	8.4			
FM (30°-60°)	14456.6	37.0			
FH (60°-80°)	14860.4	38.0			G5
FVH (80°-90°)	885.5	2.3			G5
BL (0°-30°)	1621.0	4.2	B3/2500		
BM (30°-60°)	1952.1	5.0	B2/2500		
BH (60°-80°)	1889.1	4.8	B3/2500		G3/2500
BVH (80°-90°)	94.4	0.2			G1/100
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°	9952.3	9952.3	9952.3	9952.3	9952.3	9952.3	9952.3	9952.3	9952.3	9952.3	9952.3
2.5°	10156.1	10178.7	10169.3	10163.6	10180.6	10154.2	10099.5	10082.5	10056.1	9993.8	9888.2
5°	9775.0	9842.9	9839.1	9890.1	9975.0	9997.6	9973.1	9976.8	9927.8	9850.4	9675.0
7.5°	9116.5	9144.8	9159.9	9271.2	9425.9	9550.5	9656.1	9690.1	9667.4	9601.4	9375.0
10°	8437.3	8459.9	8495.8	8626.0	8822.2	8993.9	9193.9	9309.0	9358.0	9346.7	9093.9
12.5°	7854.3	7877.0	7924.1	8071.3	8305.2	8516.5	8807.1	8950.5	9067.5	9137.3	8865.6
15°	7331.7	7380.8	7426.0	7595.8	7858.1	8135.4	8463.7	8644.8	8826.0	8982.6	8663.7
17.5°	6924.2	6973.2	6999.6	7154.3	7433.6	7773.2	8158.1	8371.3	8597.7	8854.3	8463.7
20°	6688.3	6711.0	6699.7	6786.4	7037.4	7397.7	7854.3	8101.5	8375.0	8733.5	8263.7
22.5°	6622.3	6624.2	6582.7	6573.2	6735.5	7039.3	7529.8	7829.8	8165.6	8654.3	8092.0
25°	6782.7	6777.0	6663.8	6571.4	6588.3	6765.7	7216.6	7565.6	7990.2	8637.3	7960.0
27.5°	7139.3	7156.2	6988.3	6814.7	6643.1	6637.4	6978.9	7346.8	7846.8	8714.6	7903.4
30°	7639.2	7667.5	7488.3	7267.5	6944.9	6678.9	6886.4	7216.6	7758.1	8875.0	7893.9
32.5°	8186.4	8216.6	8080.7	7848.7	7426.0	6935.5	6950.6	7227.9	7754.3	9099.5	7958.1
35°	8769.4	8803.3	8733.5	8537.3	8067.5	7409.1	7195.9	7410.9	7877.0	9442.9	8129.8
37.5°	9420.3	9473.1	9492.0	9305.2	8803.3	8033.5	7597.7	7758.1	8154.3	9920.2	8444.8
40°	10358.0	10431.5	10425.9	10158.0	9646.7	8876.9	8218.4	8260.0	8586.3	10557.9	8948.6
42.5°	12154.1	12169.2	11699.4	11116.4	10574.9	9763.6	8950.5	8916.5	9182.5	11365.5	9690.1
45°	14438.9	14376.6	13331.4	12205.0	11544.7	10782.5	9903.3	9737.2	9939.1	12350.3	10618.3
47.5°	16335.0	16191.6	14870.9	13316.3	12571.0	11890.0	11022.1	10731.5	10842.8	13467.2	11818.3
50°	16993.5	16885.9	15791.6	14240.8	13542.7	13240.8	12399.4	11988.1	12018.2	14799.2	13223.8
52.5°	16852.0	16836.9	16106.7	14850.2	14452.1	14659.6	14350.2	13793.6	13499.3	16278.4	14740.7
55°	16518.0	16550.1	16286.0	15559.6	15491.7	16029.4	16899.1	16487.8	15572.8	17770.8	16308.6
57.5°	15357.7	15440.7	16021.8	16452.0	17165.2	17965.1	18951.9	18834.9	17804.7	19383.9	18172.6
60°	12372.9	12565.4	14123.8	16278.4	18887.7	21389.5	21830.9	21559.3	20106.5	21385.7	20634.8
62.5°	8669.4	8869.4	10722.1	14093.6	18604.7	25257.2	26977.9	25806.2	23412.0	24334.6	23821.4
65°	4641.3	4737.5	6152.5	9778.7	15706.7	26055.3	34500.1	32717.2	28645.7	27970.3	26547.7
67.5°	2560.2	2613.1	3154.6	4937.5	10059.9	22944.1	39292.3	40639.4	35186.9	30390.9	26051.5
69°	2315.0	2364.0	2718.7	3739.4	6731.7	18970.7	38824.4	42728.0	38054.6	30151.3	24217.6
70°	2264.0	2309.3	2628.2	3447.0	5448.8	15636.9	37256.6	42194.0	38737.6	29292.8	22617.7
72.5°	2037.6	2086.7	2396.1	3096.1	4656.4	7795.8	29511.7	35675.5	35169.9	25398.7	17155.7
75°	1899.9	1945.2	2469.7	3031.9	4458.3	4933.7	19455.6	26293.0	25853.4	17767.0	9250.5
77.5°	813.2	809.4	1145.2	2565.9	4524.3	4777.1	10454.2	16425.6	14986.0	7593.9	2656.5
80°	543.4	533.9	543.4	754.7	4148.8	4803.5	5477.1	8337.3	6297.8	1935.7	1309.4
82.5°	467.9	460.4	477.3	460.4	1458.4	5482.7	4656.4	4433.7	2994.2	1099.9	649.0
85°	315.1	301.9	411.3	413.2	688.6	4871.4	5245.0	3745.1	2422.5	652.8	320.7
87.5°	150.9	147.2	239.6	292.4	403.8	1979.1	5884.6	3837.5	2443.3	333.9	152.8
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°	9952.3	9952.3	9952.3	9952.3	9952.3	9952.3	9952.3	9952.3	9952.3	9952.3	9952.3
2.5°	9856.1	9778.7	9703.3	9612.7	9518.4	9412.7	9359.9	9307.1	9293.9	9278.8	9225.9
5°	9584.4	9475.0	9286.3	9078.8	8859.9	8646.7	8484.5	8382.6	8305.2	8265.6	8195.8
7.5°	9233.5	9073.1	8742.9	8384.5	8016.6	7680.7	7390.2	7207.2	7033.6	6952.5	6860.0
10°	8899.5	8659.9	8146.7	7618.5	7090.2	6582.7	6105.3	5767.6	5467.6	5299.7	5180.9
12.5°	8612.8	8284.5	7573.2	6858.1	6133.6	5411.0	4696.0	4133.7	3664.0	3416.8	3290.4
15°	8333.5	7937.3	7027.9	6120.4	5190.3	4207.3	3267.8	2630.1	2241.4	2086.7	2033.9
17.5°	8080.7	7573.2	6480.8	5377.1	4216.8	3028.1	2196.1	1845.2	1696.1	1645.2	1628.2
20°	7807.1	7205.3	5912.9	4599.8	3201.7	2116.9	1715.0	1560.3	1499.9	1484.8	1477.3
22.5°	7543.0	6843.0	5369.5	3767.7	2299.9	1633.9	1473.5	1409.4	1399.9	1413.1	1413.1
25°	7318.5	6518.5	4782.8	2898.0	1688.6	1375.4	1318.8	1303.7	1339.6	1388.6	1398.0
27.5°	7150.6	6252.5	4158.3	2139.5	1345.2	1196.2	1194.3	1218.8	1307.5	1401.8	1420.7
30°	7035.5	5999.7	3490.4	1543.3	1128.2	1052.8	1083.0	1135.8	1266.0	1399.9	1435.8
32.5°	6977.0	5812.9	2794.2	1194.3	966.0	924.5	975.4	1039.6	1167.9	1292.4	1339.6
35°	7022.3	5675.2	2137.6	996.2	852.8	820.7	873.5	935.8	1011.3	1064.1	1099.9
37.5°	7192.1	5620.5	1613.1	892.4	775.4	745.2	786.8	822.6	852.8	867.9	884.9
40°	7558.1	5679.0	1292.4	839.6	732.0	694.3	711.3	724.5	743.4	758.5	766.0
42.5°	8097.7	5854.4	1158.4	818.8	709.4	654.7	650.9	656.6	681.1	709.4	715.1
45°	8852.4	6163.8	1149.0	832.0	698.1	622.6	605.6	613.2	650.9	694.3	701.9
47.5°	9816.5	6635.5	1224.5	871.7	707.5	605.6	577.3	586.8	633.9	692.4	701.9
50°	10984.3	7294.0	1350.9	930.1	749.0	609.4	567.9	573.6	622.6	686.8	696.2
52.5°	12363.5	8227.9	1488.6	986.7	792.4	633.9	575.4	562.2	607.5	664.1	675.4
55°	13897.4	9425.9	1630.1	1037.7	815.1	664.1	590.5	547.1	579.2	626.4	635.8
57.5°	15780.3	11101.3	1875.4	1086.7	830.1	684.9	605.6	532.0	543.4	577.3	584.9
60°	18329.2	13471.0	2307.4	1167.9	864.1	692.4	603.7	518.8	507.5	526.4	530.2
62.5°	21383.8	16044.5	2667.8	1269.7	920.7	698.1	592.4	509.4	477.3	477.3	481.1
65°	23196.9	16733.1	2467.8	1354.6	967.9	692.4	579.2	500.0	454.7	433.9	435.8
67.5°	21659.3	14716.2	2115.0	1371.6	966.0	666.0	558.5	483.0	432.1	400.0	398.1
69°	19732.9	12697.5	1956.5	1326.3	920.7	632.0	532.0	464.1	415.1	381.1	379.2
70°	18180.2	11465.4	1852.7	1277.3	871.7	607.5	511.3	447.1	401.9	369.8	366.0
72.5°	13218.2	7512.8	1582.9	1098.1	718.8	509.4	441.5	392.4	358.5	339.6	335.8
75°	6605.3	3582.8	1284.8	890.5	550.9	407.5	362.2	328.3	311.3	307.5	305.6
77.5°	2169.7	1641.4	918.8	664.1	409.4	318.9	292.4	267.9	264.1	275.5	271.7
80°	1192.4	954.7	583.0	439.6	279.2	234.0	230.2	217.0	222.6	241.5	237.7
82.5°	607.5	496.2	360.4	264.1	188.7	167.9	183.0	175.5	183.0	200.0	198.1
85°	300.0	271.7	228.3	160.4	124.5	107.5	130.2	135.8	139.6	152.8	152.8
87.5°	173.6	160.4	120.7	75.5	62.3	56.6	75.5	73.6	86.8	94.3	92.4
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)