

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: P269628

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269628
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-09-LED-E1-SL2-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA 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: 36592.6 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 374
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

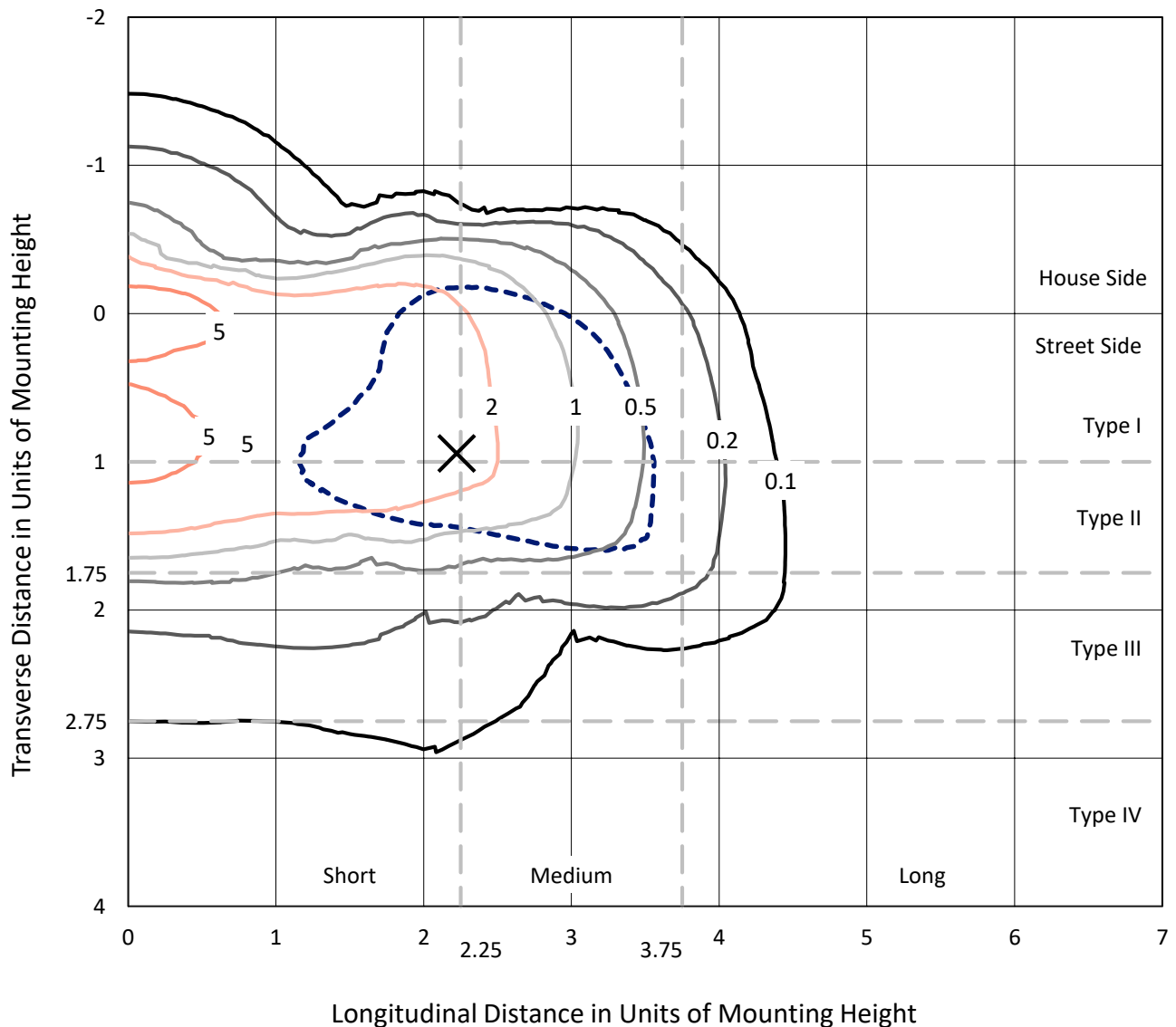


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

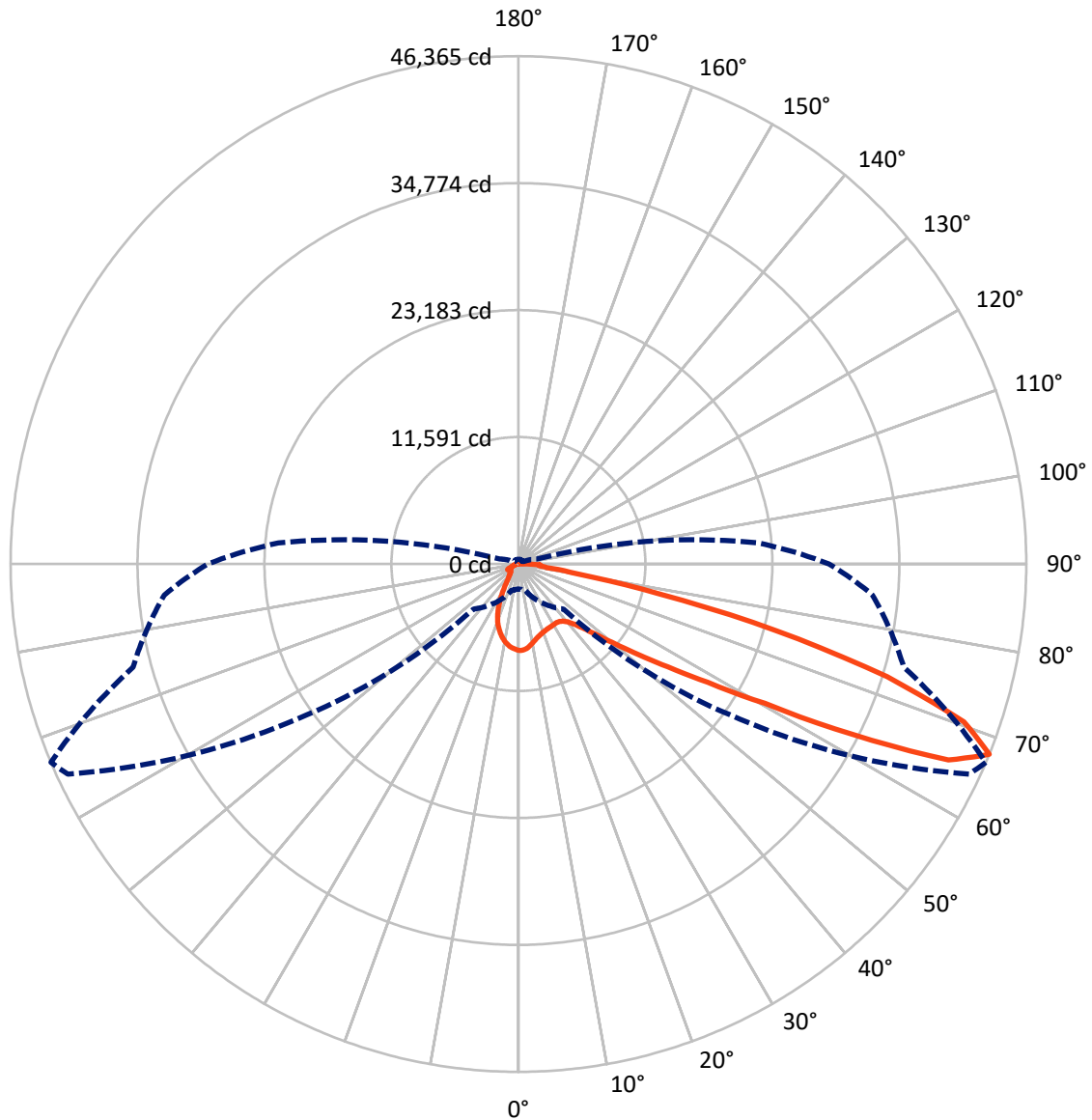


Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - Semi-Cutoff

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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
House Side	Lumens	6063.0	0.0	6063.0
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	30529.6	0.0	30529.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	36592.6	0.0	36592.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.4	1.8
10°-20°	1558.1	4.3
20°-30°	2112.0	5.8
30°-40°	3002.5	8.2
40°-50°	5023.3	13.7
50°-60°	7946.8	21.7
60°-70°	10123.4	27.7
70°-80°	5302.6	14.5
80°-90°	850.4	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°	36592.6	100.0
0°-180°	36592.6	100.0



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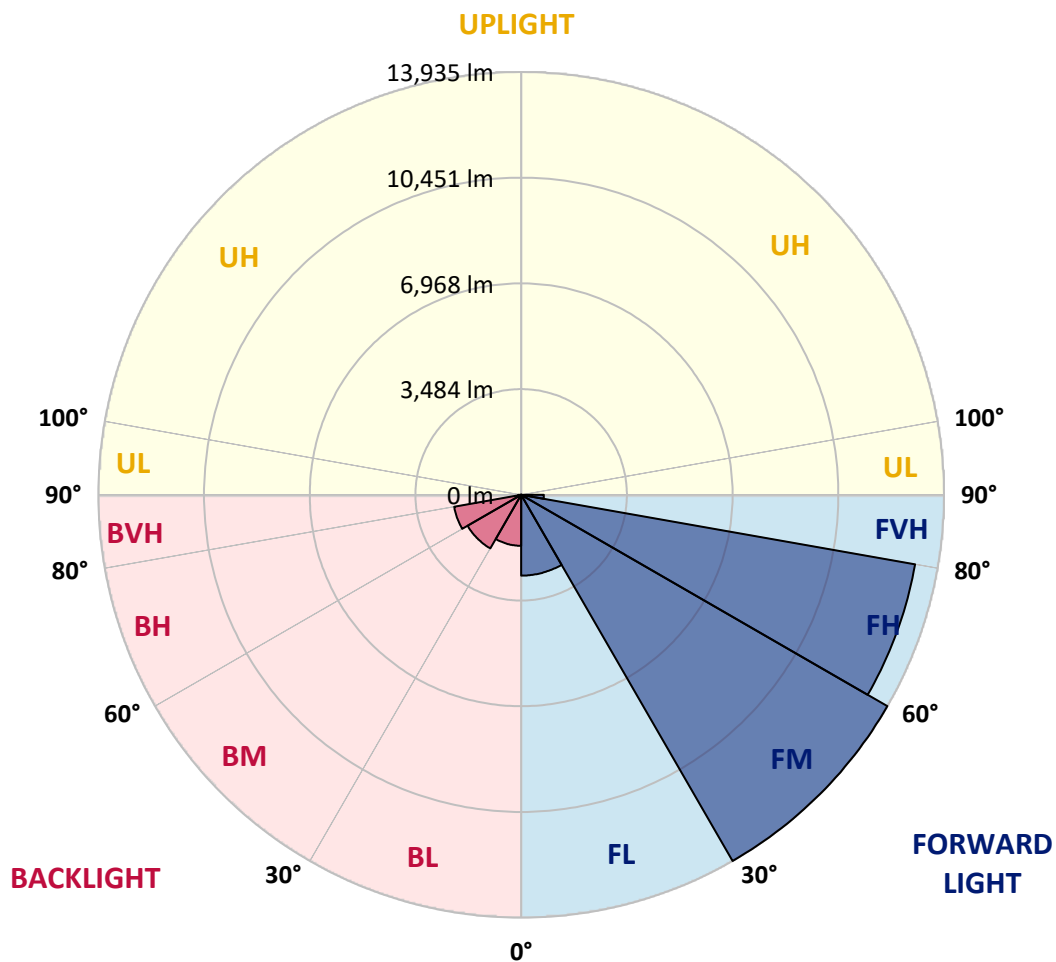
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2663.1	7.3			
FM (30°-60°)	13935.2	38.1			
FH (60°-80°)	13183.5	36.0			G5
FVH (80°-90°)	747.8	2.0			G4/750
BL (0°-30°)	1680.5	4.6	B3/2500		
BM (30°-60°)	2037.3	5.6	B2/2500		
BH (60°-80°)	2242.5	6.1	B3/2500		G3/2500
BVH (80°-90°)	102.6	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7893.0	7893.0	7893.0	7893.0	7893.0	7893.0	7893.0	7893.0	7893.0	7893.0	7893.0
2.5°	7568.1	7580.7	7620.4	7645.7	7759.4	7808.1	7842.5	7876.7	7882.1	7898.3	7882.1
5°	6774.1	6801.2	6875.2	6958.2	7178.4	7351.5	7533.8	7723.3	7757.7	7880.3	7914.5
7.5°	6158.8	6151.6	6212.9	6312.2	6537.8	6777.7	7097.1	7474.3	7548.3	7824.3	7957.8
10°	5709.4	5704.1	5769.1	5872.0	6086.6	6313.9	6674.9	7191.0	7295.7	7735.9	7999.3
12.5°	5377.4	5379.2	5444.2	5558.0	5776.2	6005.3	6371.7	6916.7	7050.2	7633.1	8042.7
15°	5157.3	5171.7	5224.1	5344.9	5558.0	5787.2	6146.2	6711.0	6860.7	7552.0	8091.5
17.5°	5083.2	5106.8	5124.8	5213.3	5395.5	5624.6	5976.6	6559.5	6718.2	7495.9	8134.7
20°	5151.9	5179.0	5144.7	5175.3	5290.8	5493.0	5843.0	6440.3	6602.7	7432.8	8140.1
22.5°	5446.1	5471.2	5370.2	5281.9	5274.6	5397.2	5733.0	6346.4	6514.2	7385.9	8142.0
25°	5963.8	5980.1	5810.5	5604.9	5404.6	5363.1	5655.3	6281.5	6460.2	7344.4	8107.7
27.5°	6599.0	6611.7	6416.9	6113.7	5711.2	5444.2	5628.3	6243.6	6429.4	7308.3	8049.9
30°	7371.4	7431.0	7169.4	6786.8	6200.3	5684.2	5682.4	6223.7	6395.2	7246.8	7936.3
32.5°	8161.8	8187.1	8006.7	7618.6	6859.0	6106.5	5834.0	6238.2	6386.2	7173.0	7791.9
35°	8963.0	8995.4	8878.2	8566.0	7759.4	6725.4	6129.9	6323.0	6442.1	7147.6	7690.7
37.5°	10000.7	10043.9	9881.4	9520.5	8854.8	7564.4	6622.6	6536.0	6613.5	7219.9	7660.1
40°	11640.9	11621.1	11146.4	10608.8	10052.9	8638.2	7326.2	6896.8	6941.9	7452.6	7754.0
42.5°	13550.0	13501.3	12683.9	11839.4	11370.2	9937.4	8257.4	7522.9	7514.1	7911.0	8084.1
45°	15073.1	15033.3	14297.2	13255.8	12880.5	11417.2	9461.0	8455.9	8389.2	8638.2	8694.2
47.5°	15897.8	15899.6	15475.6	14625.6	14616.5	13297.4	11007.6	9805.7	9690.2	9807.5	9748.0
50°	15608.9	15646.9	15601.9	15331.2	16200.9	15762.4	13026.7	11687.8	11455.0	11570.4	11341.3
52.5°	14212.4	14261.0	14528.1	14943.1	16866.8	18741.7	15993.3	14026.5	13755.7	13714.2	13459.8
55°	11736.5	11796.2	12341.0	13468.8	16312.9	20742.9	20674.3	17007.5	16576.2	16184.7	16076.3
57.5°	8089.6	8188.9	9065.9	10740.5	14520.9	21347.3	26248.5	21257.1	20380.1	19012.3	19037.6
60°	4559.9	4675.5	5709.4	7230.6	10904.6	20690.5	30489.1	27693.8	25842.4	22323.6	22511.3
62.5°	2899.9	3024.4	3809.4	5023.7	6543.2	17153.7	32226.8	36642.5	34291.1	26405.4	26589.4
65°	2347.7	2401.8	2771.7	4146.8	4751.2	10334.5	30907.7	44013.8	43136.8	31586.2	30727.2
67.5°	2291.8	2309.8	2501.1	3480.9	4556.5	5808.7	24653.3	45392.4	46365.1	36424.0	32450.6
70°	2264.6	2327.8	2818.6	3322.1	4363.2	4899.3	14815.0	41613.9	43149.5	37689.0	30157.0
72.5°	1098.9	1095.4	1418.3	3004.6	4915.4	5081.5	7611.3	33670.4	35211.5	32652.6	24781.4
75°	886.0	810.2	774.1	1100.8	4726.1	5247.4	4850.5	23168.0	24283.3	21892.4	15233.6
77.5°	841.0	750.7	687.6	689.3	1997.7	5565.1	4108.8	12822.9	13147.7	9888.7	4173.9
80°	696.5	613.5	568.4	640.6	967.3	5299.8	4442.7	5803.3	5325.2	2428.8	1389.5
82.5°	483.6	440.3	427.7	537.7	774.1	3776.8	5166.3	3118.1	2614.7	1216.2	857.2
85°	308.6	263.5	292.3	391.7	602.8	1743.2	5321.5	2430.6	1932.7	772.4	483.6
87.5°	142.6	115.5	144.4	216.5	393.4	600.8	5063.4	2730.2	1990.4	407.8	305.0
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°	7893.0	7893.0	7893.0	7893.0	7893.0	7893.0	7893.0	7893.0	7893.0	7893.0	7893.0
2.5°	7896.6	7862.2	7835.1	7784.6	7728.7	7674.6	7625.8	7564.4	7546.4	7530.2	7555.5
5°	7921.9	7887.5	7788.2	7633.1	7461.6	7301.1	7140.4	7003.2	6918.4	6871.6	6898.7
7.5°	7959.7	7911.0	7705.2	7420.1	7111.6	6830.1	6539.5	6306.8	6135.3	6054.1	6077.7
10°	7993.9	7900.1	7564.4	7136.9	6685.7	6267.0	5808.7	5429.7	5148.2	5000.2	5036.3
12.5°	8008.4	7858.6	7367.8	6783.1	6164.2	5550.6	4875.8	4309.2	3904.9	3757.0	3726.3
15°	8022.9	7811.8	7151.2	6380.8	5534.5	4666.4	3720.9	3042.4	2706.8	2632.8	2616.6
17.5°	8026.4	7730.5	6905.9	5944.1	4796.4	3614.4	2544.4	2113.2	2114.9	2233.9	2248.4
20°	7988.5	7609.6	6608.1	5400.9	3912.2	2499.3	1746.8	1672.7	1945.3	2243.0	2279.1
22.5°	7901.9	7449.0	6270.7	4767.6	2899.9	1645.8	1351.6	1432.7	1784.7	2149.1	2190.6
25°	7791.9	7254.2	5872.0	4033.1	1919.9	1176.5	1133.2	1232.5	1470.6	1714.2	1737.7
27.5°	7642.2	7023.2	5424.3	3192.1	1246.8	969.0	997.8	1064.6	1162.0	1270.4	1281.3
30°	7449.0	6747.1	4946.2	2327.8	942.0	871.5	913.0	949.1	990.7	1052.0	1057.5
32.5°	7227.0	6481.8	4455.4	1607.8	835.6	821.1	853.5	871.5	904.1	942.0	945.6
35°	7041.3	6229.1	3946.4	1136.8	790.4	783.1	804.8	812.1	842.7	884.2	887.9
37.5°	6934.7	6023.5	3421.4	916.7	759.6	748.8	761.6	761.6	804.8	866.1	875.2
40°	6941.9	5909.8	2896.2	828.2	734.5	720.0	721.8	721.8	777.8	844.4	849.9
42.5°	7138.7	5938.6	2430.6	794.0	714.6	698.3	689.3	694.7	741.6	784.9	788.5
45°	7600.6	6142.6	1994.0	772.4	694.7	689.3	669.4	667.7	685.8	705.6	705.6
47.5°	8358.5	6545.0	1698.1	757.9	678.5	676.8	653.2	629.8	627.9	635.2	635.2
50°	9590.9	7238.0	1499.5	741.6	667.7	653.2	626.2	590.0	577.4	582.9	582.9
52.5°	11438.7	8474.0	1423.8	720.0	644.3	620.8	590.0	554.0	543.1	544.9	544.9
55°	13862.3	10372.3	1412.9	694.7	618.9	581.1	555.8	528.7	516.0	519.7	519.7
57.5°	16823.5	12997.8	1606.0	655.0	584.6	541.4	526.9	508.9	499.8	505.2	503.5
60°	20423.4	16433.7	2381.9	613.5	550.4	505.2	505.2	490.8	483.6	488.9	487.2
62.5°	24570.3	20380.1	3349.2	582.9	514.3	476.5	483.6	476.5	469.2	472.8	471.0
65°	28247.8	22951.5	3136.3	559.5	478.2	449.3	462.0	458.3	452.9	456.6	454.7
67.5°	28354.3	21998.9	1761.1	534.1	443.9	422.3	440.3	438.6	434.9	438.6	436.7
70°	25304.6	18575.6	992.4	487.2	407.8	389.8	415.0	413.2	409.6	416.9	415.0
72.5°	20273.7	13479.6	725.4	429.5	371.7	355.5	384.4	382.6	382.6	393.4	388.0
75°	11666.2	6936.5	579.2	368.1	333.8	321.2	346.4	348.3	351.9	366.2	355.5
77.5°	3325.7	2161.9	472.8	312.3	286.9	281.4	306.9	310.4	312.3	328.4	314.0
80°	1236.1	996.1	389.8	261.6	234.5	236.4	259.9	265.3	267.1	283.3	265.3
82.5°	788.5	656.8	315.8	202.1	184.1	182.3	211.1	218.4	218.4	220.2	209.3
85°	460.1	393.4	238.2	146.2	130.0	124.5	157.1	169.6	164.2	160.5	153.4
87.5°	308.6	270.7	146.2	81.1	70.3	66.7	92.0	101.1	97.5	92.0	86.6
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)