

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: P191105

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191105
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-07-LED-E1-SL2-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA 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: 46283.4 lumens
Efficiency: N/A
Efficacy: 103.3 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

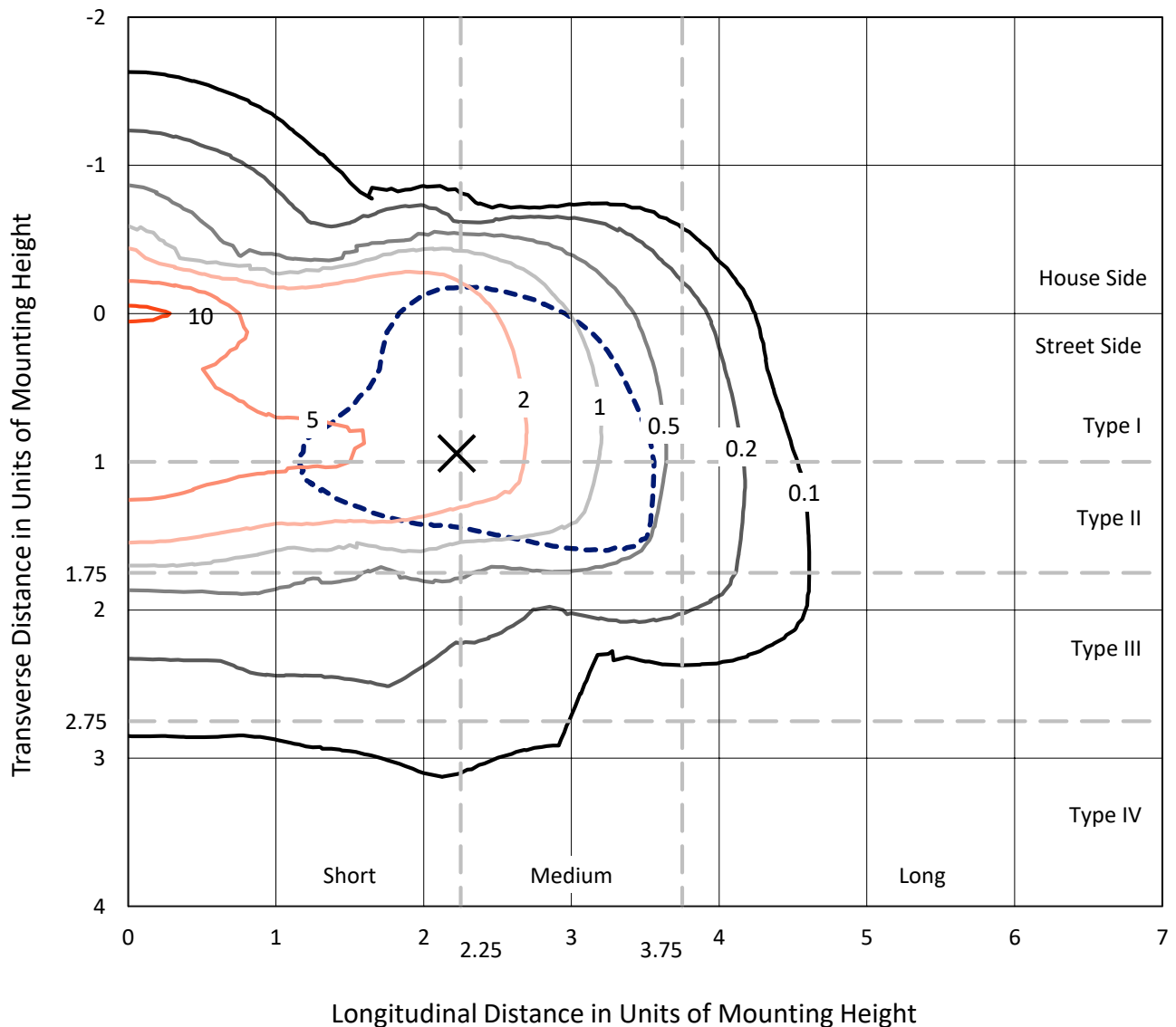
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

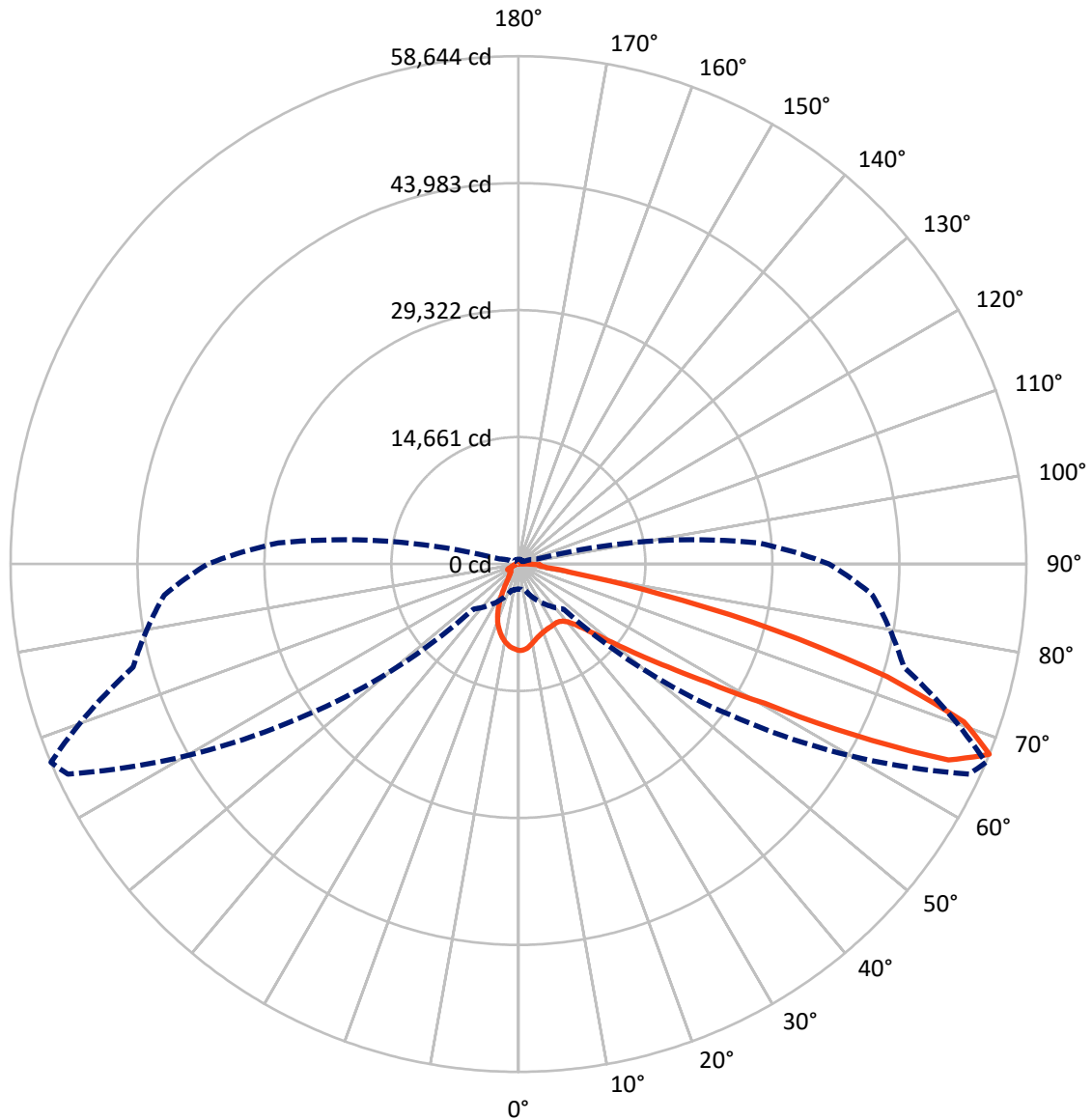
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.1 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	7668.6	0.0	7668.6
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	38614.8	0.0	38614.8
	% Fixture	83.4	0.0	83.4
Total	Lumens	46283.4	0.0	46283.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	851.7	1.8
10°-20°	1970.7	4.3
20°-30°	2671.4	5.8
30°-40°	3797.6	8.2
40°-50°	6353.6	13.7
50°-60°	10051.3	21.7
60°-70°	12804.4	27.7
70°-80°	6706.9	14.5
80°-90°	1075.7	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°	46283.4	100.0
0°-180°	46283.4	100.0

Coefficient of Utilization



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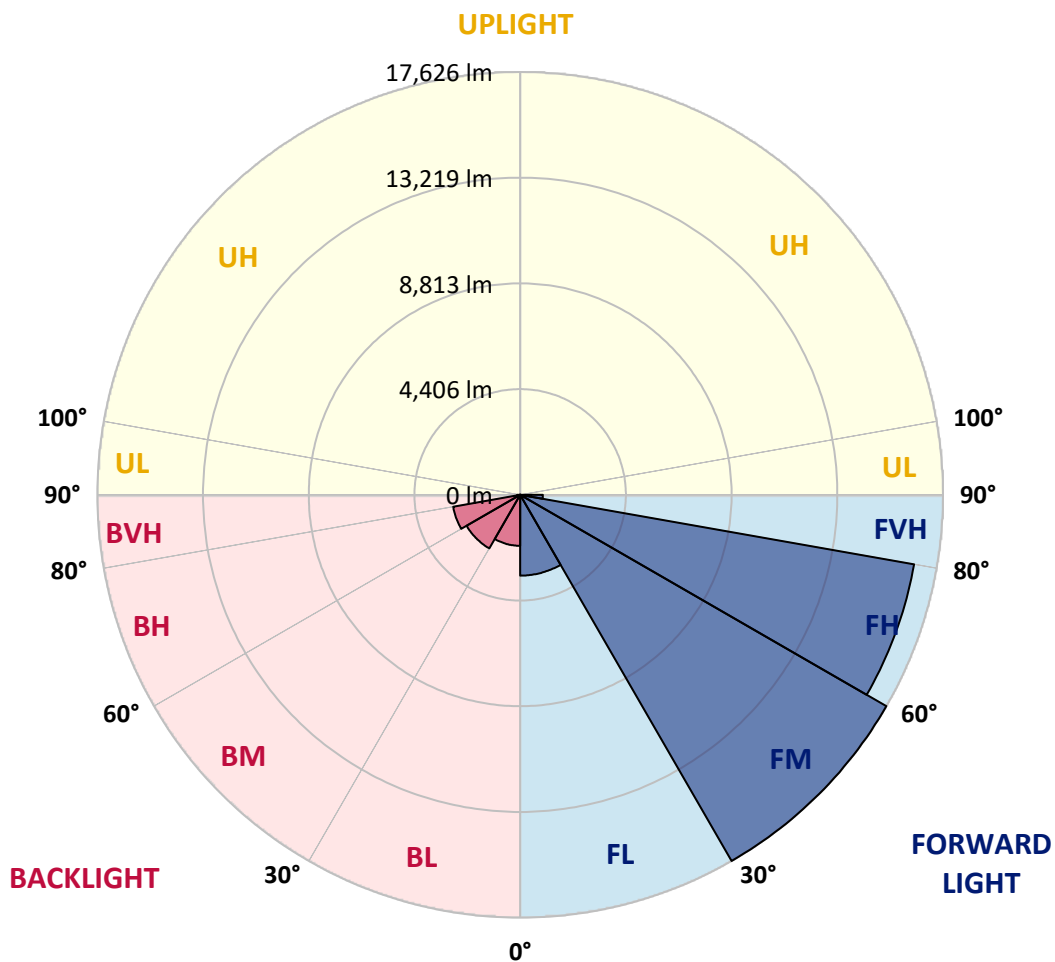
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3368.3	7.3			
FM	(30°-60°)	17625.7	38.1			
FH	(60°-80°)	16674.9	36.0			G5
FVH	(80°-90°)	945.8	2.0			G5
BL	(0°-30°)	2125.5	4.6	B3/2500		
BM	(30°-60°)	2576.9	5.6	B3/5000		
BH	(60°-80°)	2836.4	6.1	B4/5000		G4/5000
BVH	(80°-90°)	129.8	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°	9983.2	9983.2	9983.2	9983.2	9983.2	9983.2	9983.2	9983.2	9983.2	9983.2	9983.2
2.5°	9572.4	9588.3	9638.5	9670.6	9814.3	9876.0	9919.3	9962.7	9969.5	9990.0	9969.5
5°	8568.1	8602.4	8695.9	8801.0	9079.4	9298.5	9529.0	9768.7	9812.0	9967.2	10010.6
7.5°	7789.9	7780.7	7858.3	7983.8	8269.1	8572.7	8976.7	9453.7	9547.3	9896.5	10065.4
10°	7221.5	7214.7	7296.8	7426.9	7698.5	7986.1	8442.6	9095.4	9227.7	9784.6	10117.9
12.5°	6801.6	6803.9	6886.0	7029.8	7305.9	7595.8	8059.1	8748.5	8917.4	9654.5	10172.6
15°	6523.1	6541.4	6607.5	6760.5	7029.8	7319.6	7773.8	8488.2	8677.7	9551.8	10234.3
17.5°	6429.6	6459.2	6482.0	6593.8	6824.4	7114.2	7559.3	8296.5	8497.3	9481.1	10289.0
20°	6516.3	6550.5	6507.1	6546.0	6692.0	6947.6	7390.4	8145.9	8351.3	9401.2	10295.9
22.5°	6888.2	6920.3	6792.4	6680.6	6671.5	6826.7	7251.2	8027.2	8239.5	9341.9	10298.1
25°	7543.3	7563.9	7349.3	7089.2	6835.8	6783.3	7153.1	7945.1	8171.0	9289.4	10254.8
27.5°	8346.8	8362.7	8116.2	7732.8	7223.8	6886.0	7118.8	7897.1	8132.2	9243.7	10181.7
30°	9323.6	9399.0	9067.9	8584.1	7842.4	7189.6	7187.3	7872.0	8088.8	9166.2	10038.0
32.5°	10323.3	10355.2	10127.0	9636.3	8675.4	7723.7	7379.0	7890.2	8077.4	9072.6	9855.4
35°	11336.6	11377.8	11229.4	10834.6	9814.3	8506.6	7753.4	7997.5	8148.2	9040.6	9727.5
37.5°	12649.1	12703.8	12498.4	12042.0	11199.8	9567.9	8376.4	8266.9	8365.0	9131.9	9688.8
40°	14723.7	14698.7	14098.4	13418.3	12715.3	10925.8	9266.5	8723.3	8780.4	9426.3	9807.4
42.5°	17138.5	17076.9	16043.0	14974.9	14381.4	12569.2	10444.2	9515.3	9503.9	10006.0	10225.1
45°	19064.9	19014.7	18083.4	16766.5	16291.8	14440.8	11966.6	10695.4	10610.9	10925.8	10996.6
47.5°	20107.9	20110.2	19573.9	18498.8	18487.5	16819.1	13922.7	12402.6	12256.5	12404.8	12329.5
50°	19742.7	19790.7	19733.6	19391.3	20491.3	19936.8	16476.7	14783.1	14488.7	14634.7	14344.8
52.5°	17976.2	18037.8	18375.6	18900.6	21333.6	23705.0	20229.0	17741.1	17398.8	17346.3	17024.5
55°	14844.8	14920.0	15609.3	17035.8	20632.9	26236.2	26149.5	21511.6	20966.1	20470.9	20333.9
57.5°	10232.0	10357.6	11466.8	13584.9	18366.5	27000.8	33199.8	26886.6	25777.4	24047.3	24079.3
60°	5767.6	5913.7	7221.5	9145.6	13792.5	26170.0	38563.4	35028.0	32686.2	28235.6	28472.9
62.5°	3667.8	3825.3	4818.1	6354.2	8276.0	21696.5	40761.4	46346.4	43372.4	33398.3	33631.1
65°	2969.4	3037.9	3505.8	5245.0	6009.5	13071.3	39093.0	55670.0	54560.8	39951.1	38864.7
67.5°	2898.6	2921.4	3163.4	4402.8	5763.1	7347.0	31182.2	57413.7	58644.0	46070.2	41044.4
70°	2864.4	2944.3	3565.1	4201.9	5518.8	6196.7	18738.5	52634.4	54576.8	47670.2	38143.5
72.5°	1390.0	1385.4	1793.9	3800.2	6217.3	6427.2	9627.2	42587.3	44536.5	41300.0	31344.2
75°	1120.6	1024.8	979.2	1392.2	5977.6	6637.2	6135.0	29303.8	30714.3	27690.1	19268.0
77.5°	1063.6	949.5	869.6	871.9	2526.6	7038.9	5197.0	16218.8	16629.6	12507.5	5279.1
80°	881.0	776.0	718.9	810.3	1223.3	6703.4	5619.3	7340.2	6735.3	3072.1	1757.4
82.5°	611.7	556.9	540.9	680.2	979.2	4777.1	6534.5	3944.0	3307.2	1538.3	1084.1
85°	390.3	333.3	369.8	495.3	762.3	2204.8	6730.8	3074.4	2444.4	976.9	611.7
87.5°	180.3	146.1	182.6	273.8	497.6	760.1	6404.4	3453.3	2517.5	515.8	385.8
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°	9983.2	9983.2	9983.2	9983.2	9983.2	9983.2	9983.2	9983.2	9983.2	9983.2	9983.2
2.5°	9987.8	9944.4	9910.1	9846.3	9775.5	9707.1	9645.4	9567.9	9544.9	9524.5	9556.4
5°	10019.7	9976.3	9850.8	9654.5	9437.7	9234.6	9031.4	8858.0	8750.7	8691.4	8725.6
7.5°	10067.7	10006.0	9745.9	9385.3	8994.9	8638.9	8271.4	7977.0	7760.2	7657.5	7687.2
10°	10111.1	9992.4	9567.9	9026.9	8456.3	7926.7	7347.0	6867.8	6511.7	6324.5	6370.2
12.5°	10129.3	9939.8	9319.1	8579.6	7796.7	7020.6	6167.1	5450.4	4939.1	4751.9	4713.1
15°	10147.6	9880.5	9045.1	8070.6	7000.2	5902.3	4706.3	3848.1	3423.6	3330.0	3309.5
17.5°	10152.1	9777.8	8734.8	7518.2	6066.6	4571.7	3218.2	2672.7	2675.0	2825.6	2843.9
20°	10104.2	9624.8	8358.1	6831.3	4948.2	3161.1	2209.4	2115.8	2460.4	2837.1	2882.7
22.5°	9994.6	9421.8	7931.3	6030.1	3667.8	2081.5	1709.6	1812.3	2257.2	2718.4	2770.9
25°	9855.4	9175.3	7426.9	5101.1	2428.5	1488.1	1433.4	1558.9	1860.1	2168.2	2197.9
27.5°	9666.0	8883.1	6860.9	4037.6	1577.2	1225.7	1262.1	1346.6	1469.9	1606.9	1620.5
30°	9421.8	8533.9	6256.1	2944.3	1191.4	1102.4	1154.9	1200.5	1253.0	1330.7	1337.5
32.5°	9141.0	8198.3	5635.2	2033.6	1056.7	1038.5	1079.6	1102.4	1143.5	1191.4	1195.9
35°	8905.9	7878.9	4991.6	1438.0	999.7	990.5	1017.9	1027.0	1065.9	1118.4	1122.9
37.5°	8771.3	7618.6	4327.4	1159.4	960.9	947.2	963.2	963.2	1017.9	1095.6	1106.9
40°	8780.4	7474.9	3663.3	1047.6	928.9	910.6	913.0	913.0	983.7	1068.2	1075.0
42.5°	9029.2	7511.4	3074.4	1004.2	903.9	883.3	871.9	878.7	938.0	992.9	997.4
45°	9613.5	7769.3	2522.1	976.9	878.7	871.9	846.8	844.4	867.4	892.4	892.4
47.5°	10572.1	8278.2	2147.8	958.6	858.2	855.9	826.2	796.6	794.3	803.4	803.4
50°	12131.0	9154.7	1896.7	938.0	844.4	826.2	792.0	746.3	730.4	737.2	737.2
52.5°	14468.1	10718.2	1800.8	910.6	814.8	785.1	746.3	700.7	687.0	689.3	689.3
55°	17533.4	13119.2	1787.1	878.7	782.9	734.9	703.0	668.7	652.7	657.3	657.3
57.5°	21278.8	16440.1	2031.4	828.5	739.5	684.8	666.5	643.6	632.2	639.0	636.8
60°	25832.2	20785.8	3012.8	776.0	696.1	639.0	639.0	620.8	611.7	618.6	616.2
62.5°	31077.1	25777.4	4236.1	737.2	650.5	602.5	611.7	602.5	593.4	598.0	595.7
65°	35728.7	29029.8	3966.8	707.6	604.9	568.4	584.3	579.7	572.9	577.5	575.2
67.5°	35863.3	27824.8	2227.6	675.6	561.5	534.1	556.9	554.6	550.0	554.6	552.3
70°	32006.1	23495.0	1255.4	616.2	515.8	493.0	525.0	522.6	518.1	527.2	525.0
72.5°	25642.7	17049.5	917.5	543.2	470.1	449.6	486.1	483.9	483.9	497.6	490.7
75°	14755.8	8773.5	732.6	465.6	422.3	406.3	438.2	440.5	445.1	463.3	449.6
77.5°	4206.5	2734.3	598.0	394.9	362.9	356.1	388.0	392.6	394.9	415.4	397.1
80°	1563.5	1259.9	493.0	330.9	296.8	299.0	328.7	335.5	337.8	358.3	335.5
82.5°	997.4	830.8	399.5	255.6	232.8	230.6	267.0	276.2	276.2	278.4	264.7
85°	582.1	497.6	301.3	184.8	164.3	157.5	198.6	214.5	207.7	203.2	194.1
87.5°	390.3	342.4	184.8	102.7	89.0	84.5	116.4	127.8	123.3	116.4	109.6
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)