

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: P194456

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-7060-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-SL3-7060-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26852 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 257
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



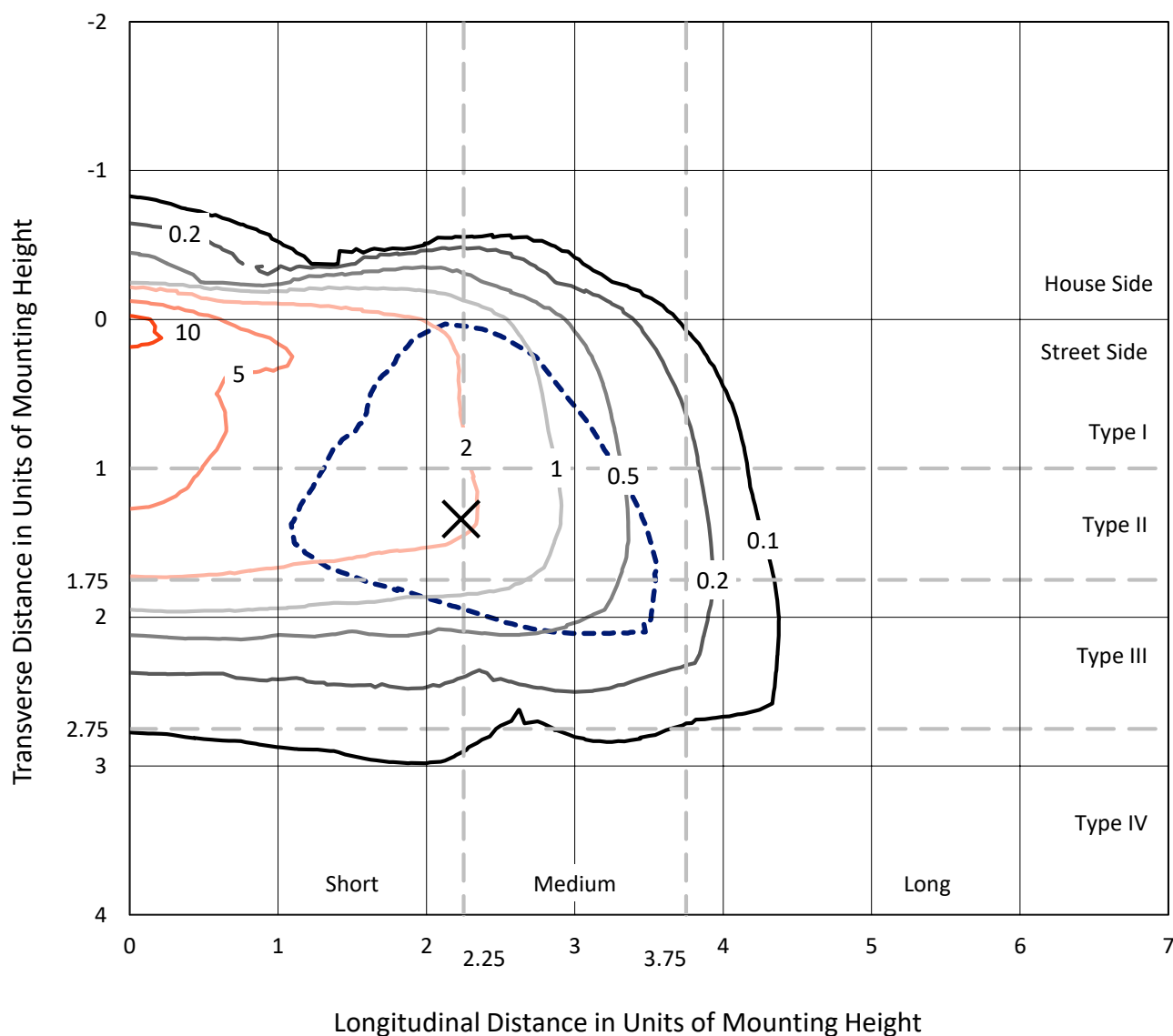
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

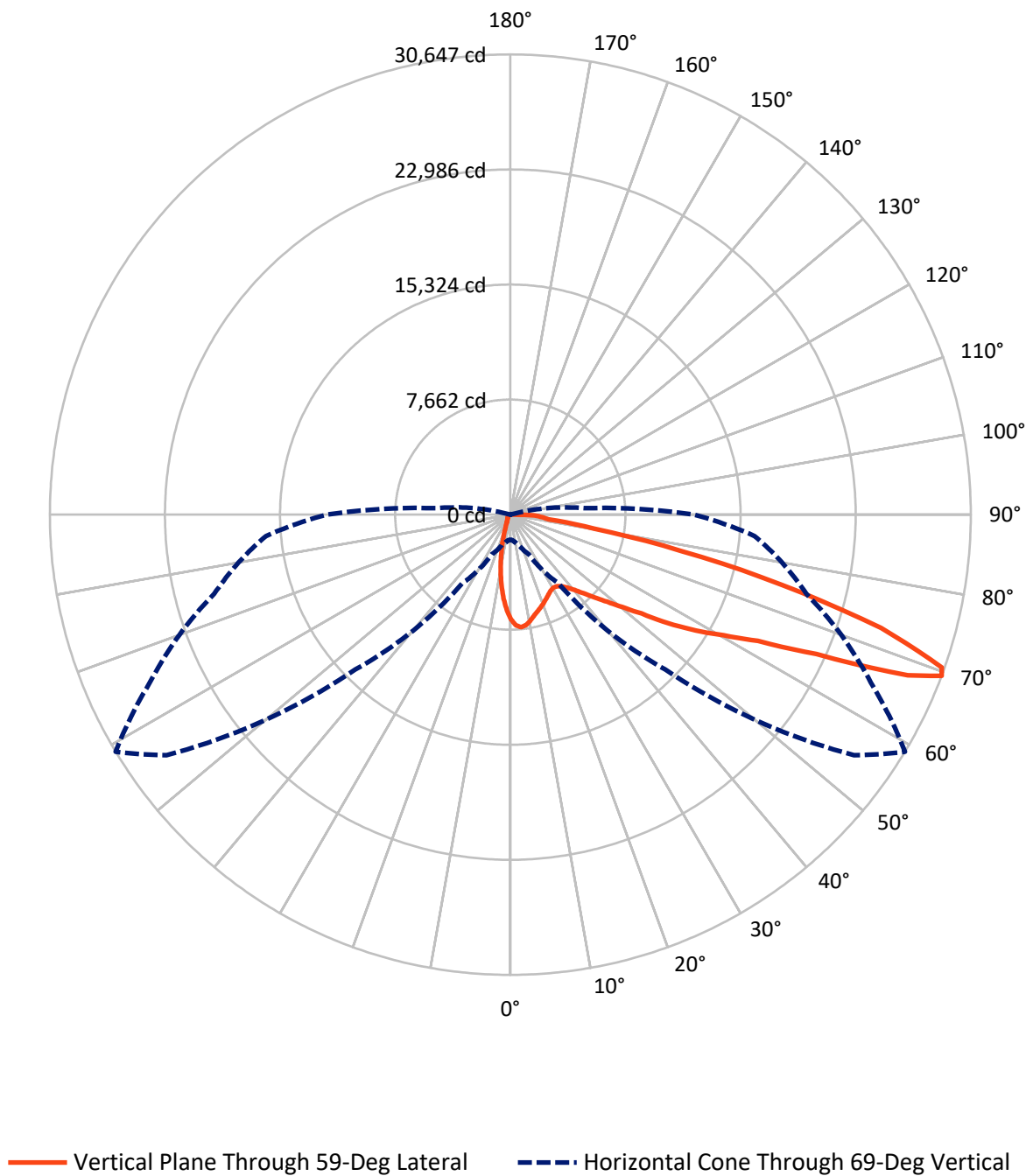


Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2186.7	0.0	2186.7
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	24665.3	0.0	24665.3
	% Fixture	91.9	0.0	91.9
Total	Lumens	26852.0	0.0	26852.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.3	2.1
10°-20°	1172.2	4.4
20°-30°	1577.4	5.9
30°-40°	2290.3	8.5
40°-50°	3813.5	14.2
50°-60°	5948.9	22.2
60°-70°	7361.4	27.4
70°-80°	3730.7	13.9
80°-90°	390.4	1.5
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°	26852.0	100.0
0°-180°	26852.0	100.0

Coefficient of Utilization



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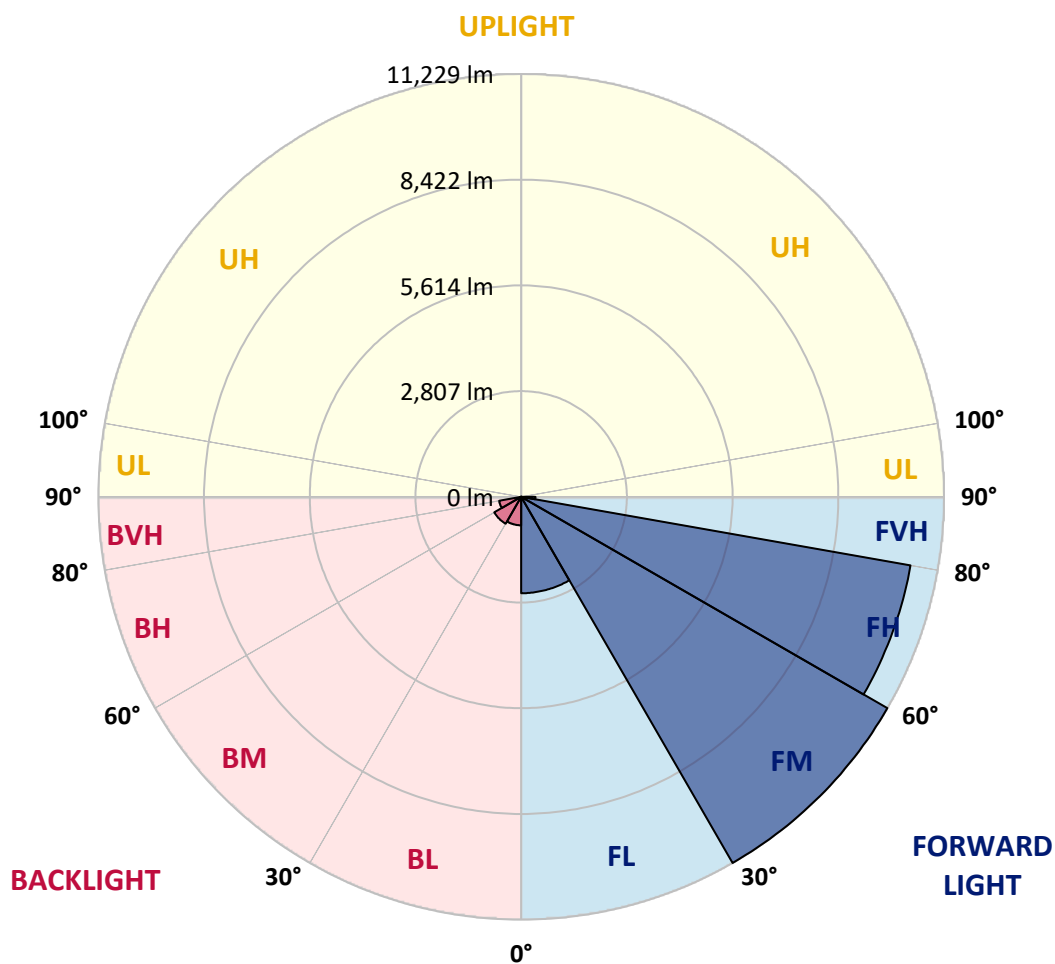
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2560.0	9.5			
FM	(30°-60°)	11228.7	41.8			
FH	(60°-80°)	10498.1	39.1			G4/12000
FVH	(80°-90°)	378.3	1.4			G3/500
BL	(0°-30°)	756.9	2.8	B2/1000		
BM	(30°-60°)	824.0	3.1	B1/1000		
BH	(60°-80°)	593.9	2.2	B2/1000		G2/1000
BVH	(80°-90°)	12.0	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6989.2	6989.2	6989.2	6989.2	6989.2	6989.2	6989.2	6989.2	6989.2	6989.2	6989.2
2.5°	7660.3	7657.3	7623.9	7608.7	7581.4	7523.7	7434.1	7387.0	7311.1	7179.0	7001.4
5°	7590.5	7626.9	7646.7	7648.2	7667.9	7646.7	7566.2	7526.7	7421.9	7209.4	6890.5
7.5°	7116.8	7130.4	7186.6	7235.2	7329.3	7418.9	7447.8	7431.1	7368.8	7141.0	6717.4
10°	6609.6	6623.3	6690.1	6753.9	6881.4	7019.6	7165.3	7195.7	7221.5	7043.9	6550.4
12.5°	6172.3	6186.0	6254.3	6337.8	6486.6	6656.7	6882.9	6933.0	7046.9	6951.2	6416.8
15°	5795.7	5801.8	5868.6	5971.9	6149.5	6368.2	6624.8	6705.3	6879.9	6886.0	6299.8
17.5°	5475.4	5490.5	5531.5	5630.2	5824.6	6094.9	6394.0	6509.4	6714.4	6831.3	6186.0
20°	5279.5	5294.7	5293.1	5347.8	5522.4	5810.9	6163.2	6301.4	6550.4	6775.1	6084.2
22.5°	5241.5	5241.5	5202.0	5194.5	5297.7	5539.1	5923.3	6091.8	6403.1	6750.8	6012.9
25°	5376.7	5370.6	5271.9	5191.4	5196.0	5340.2	5691.0	5891.4	6278.6	6767.5	5974.9
27.5°	5662.1	5654.5	5530.0	5376.7	5253.7	5252.2	5514.8	5730.4	6179.9	6846.5	5990.1
30°	6056.9	6053.9	5918.7	5725.9	5502.7	5297.7	5454.1	5650.0	6116.1	6989.2	6025.0
32.5°	6488.1	6483.6	6381.8	6178.4	5896.0	5502.7	5517.9	5681.9	6134.3	7179.0	6110.0
35°	6945.2	6937.6	6893.5	6715.9	6404.6	5880.8	5727.4	5855.0	6249.7	7462.9	6277.1
37.5°	7440.2	7447.8	7479.6	7309.6	6983.1	6410.7	6078.2	6164.7	6482.1	7848.6	6548.9
40°	8170.5	8169.0	8179.6	7956.4	7642.1	7059.1	6568.6	6595.9	6870.8	8360.3	6961.9
42.5°	9496.1	9403.5	9122.6	8667.0	8351.2	7800.0	7186.6	7157.7	7346.0	8993.5	7540.4
45°	11277.2	11079.8	10350.9	9477.9	9074.0	8635.2	7947.3	7854.7	7974.6	9754.2	8254.0
47.5°	12809.2	12604.3	11573.3	10322.1	9840.8	9427.8	8838.6	8671.6	8711.1	10606.0	9159.0
50°	13330.1	13229.8	12329.4	11057.0	10583.3	10425.3	9872.6	9669.2	9613.0	11591.5	10208.2
52.5°	13149.4	13141.8	12542.0	11533.8	11263.5	11457.9	11173.9	10938.6	10732.1	12630.1	11275.7
55°	12859.3	12897.3	12628.5	11951.3	11942.2	12400.8	12953.5	12757.6	12159.4	13758.2	12195.8
57.5°	12059.1	12221.6	12580.0	12740.9	13114.4	13583.6	14435.4	14550.8	13843.3	14622.2	12959.6
60°	9784.6	10141.4	11313.6	12854.8	14625.2	15794.4	16224.1	16322.8	15225.0	15340.4	13990.6
62.5°	6945.2	7309.6	8796.1	11403.2	14648.0	18699.1	18888.9	18501.7	16746.5	16404.8	15768.6
65°	3686.7	3967.6	5182.3	8231.3	12699.9	19373.3	23548.9	22394.9	19431.0	18498.7	18065.9
67.5°	1885.9	1970.9	2453.7	4028.3	8730.8	17208.0	27726.0	28538.4	24057.6	20575.9	17955.1
69°	1668.7	1718.8	2039.2	2912.3	5590.8	14575.1	27929.5	30647.4	26479.4	20402.8	16316.7
70°	1615.6	1659.6	1951.1	2635.9	4370.0	12223.1	27150.5	30462.2	27098.9	19743.8	15092.9
72.5°	1371.1	1409.1	1737.1	2329.2	3551.5	6067.5	22054.8	25812.8	24317.2	16447.3	10924.9
75°	917.1	1041.6	1667.2	2183.5	3304.0	3446.8	14540.2	18653.6	17328.0	11093.4	5691.0
77.5°	220.2	236.9	470.7	1737.1	3021.6	3033.8	7478.1	11596.0	9458.1	3953.9	1345.3
80°	118.4	113.9	132.1	344.7	2813.6	2847.0	3366.3	5628.7	3376.9	655.9	443.4
82.5°	83.5	79.0	85.0	144.2	885.2	2593.4	2435.5	2547.9	1400.0	252.1	198.9
85°	30.4	28.8	47.1	130.6	277.9	1491.1	2502.3	2101.5	1134.2	115.4	145.8
87.5°	10.6	9.1	18.2	71.4	85.0	634.7	1544.2	1588.2	446.4	69.8	68.3
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°	6989.2	6989.2	6989.2	6989.2	6989.2	6989.2	6989.2	6989.2	6989.2	6989.2	6989.2
2.5°	6926.9	6832.8	6659.7	6482.1	6318.1	6120.7	6022.0	5924.8	5883.8	5868.6	5797.3
5°	6726.5	6567.1	6199.6	5830.7	5490.5	5129.2	4890.8	4699.5	4587.1	4532.4	4445.9
7.5°	6469.9	6208.7	5651.5	5082.1	4552.2	4029.8	3642.6	3345.0	3140.1	3041.4	2951.8
10°	6220.9	5873.2	5080.6	4304.7	3584.9	2892.6	2358.1	1970.9	1723.4	1609.5	1536.6
12.5°	5997.7	5546.7	4529.4	3547.0	2643.5	1832.7	1289.1	980.9	827.5	774.4	748.6
15°	5798.8	5246.1	4008.6	2827.3	1790.2	1047.7	704.5	599.8	575.5	575.5	572.4
17.5°	5610.5	4951.5	3506.0	2151.6	1123.6	640.8	536.0	522.3	522.3	528.4	528.4
20°	5429.8	4670.6	3020.1	1544.2	707.6	508.7	484.4	481.3	484.4	492.0	492.0
22.5°	5274.9	4415.5	2566.1	1059.8	525.4	458.6	446.4	441.9	443.4	447.9	451.0
25°	5159.5	4199.9	2137.9	718.2	452.5	417.6	403.9	396.3	390.2	390.2	393.3
27.5°	5086.6	4017.7	1723.4	522.3	406.9	379.6	358.3	346.2	332.5	324.9	328.0
30°	5033.5	3844.6	1334.7	426.7	364.4	337.1	309.8	290.0	270.3	261.2	264.2
32.5°	5013.8	3704.9	997.6	376.6	326.5	296.1	262.7	236.9	215.6	208.0	209.5
35°	5066.9	3594.1	730.4	340.1	296.1	258.1	220.2	191.3	174.6	170.1	171.6
37.5°	5206.6	3534.8	546.6	309.8	268.8	226.2	183.7	156.4	145.8	145.8	147.3
40°	5470.8	3533.3	438.8	288.5	244.5	195.9	151.8	132.1	126.0	129.1	130.6
42.5°	5856.5	3613.8	382.6	268.8	223.2	167.0	126.0	112.4	110.8	113.9	115.4
45°	6383.4	3761.1	352.3	252.1	200.4	139.7	106.3	97.2	97.2	101.7	103.3
47.5°	7028.7	3976.7	326.5	235.4	177.7	116.9	91.1	85.0	86.5	91.1	92.6
50°	7806.1	4248.5	300.6	217.1	161.0	97.2	79.0	74.4	75.9	82.0	83.5
52.5°	8691.3	4614.4	279.4	200.4	139.7	80.5	66.8	63.8	66.8	72.9	74.4
55°	9450.5	4942.4	253.6	186.8	112.4	66.8	54.7	54.7	57.7	65.3	66.8
57.5°	10180.9	5285.6	230.8	161.0	88.1	53.1	45.6	47.1	51.6	59.2	60.7
60°	11252.9	5867.1	203.5	135.1	66.8	42.5	38.0	39.5	45.6	53.1	54.7
62.5°	13073.4	6752.3	176.1	112.4	51.6	33.4	30.4	33.4	41.0	50.1	51.6
65°	14716.4	7112.2	144.2	94.1	39.5	25.8	25.8	30.4	39.5	48.6	50.1
67.5°	13800.8	5987.1	112.4	74.4	30.4	19.7	21.3	28.8	38.0	48.6	50.1
69°	12204.9	4895.3	95.7	59.2	25.8	18.2	19.7	28.8	38.0	47.1	48.6
70°	10961.3	4133.1	85.0	50.1	22.8	18.2	19.7	27.3	38.0	47.1	48.6
72.5°	7341.5	2232.1	68.3	36.4	21.3	16.7	16.7	27.3	36.4	45.6	47.1
75°	3155.2	616.5	54.7	25.8	18.2	15.2	15.2	25.8	34.9	44.0	47.1
77.5°	577.0	156.4	44.0	22.8	18.2	15.2	13.7	24.3	33.4	42.5	44.0
80°	229.3	77.4	34.9	19.7	16.7	13.7	12.1	22.8	31.9	41.0	42.5
82.5°	138.2	44.0	28.8	18.2	16.7	12.1	10.6	19.7	30.4	39.5	41.0
85°	112.4	30.4	22.8	18.2	15.2	12.1	9.1	18.2	27.3	38.0	39.5
87.5°	54.7	21.3	21.3	16.7	15.2	12.1	9.1	16.7	25.8	36.4	38.0
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)