

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: P191056

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40419.9 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 445
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

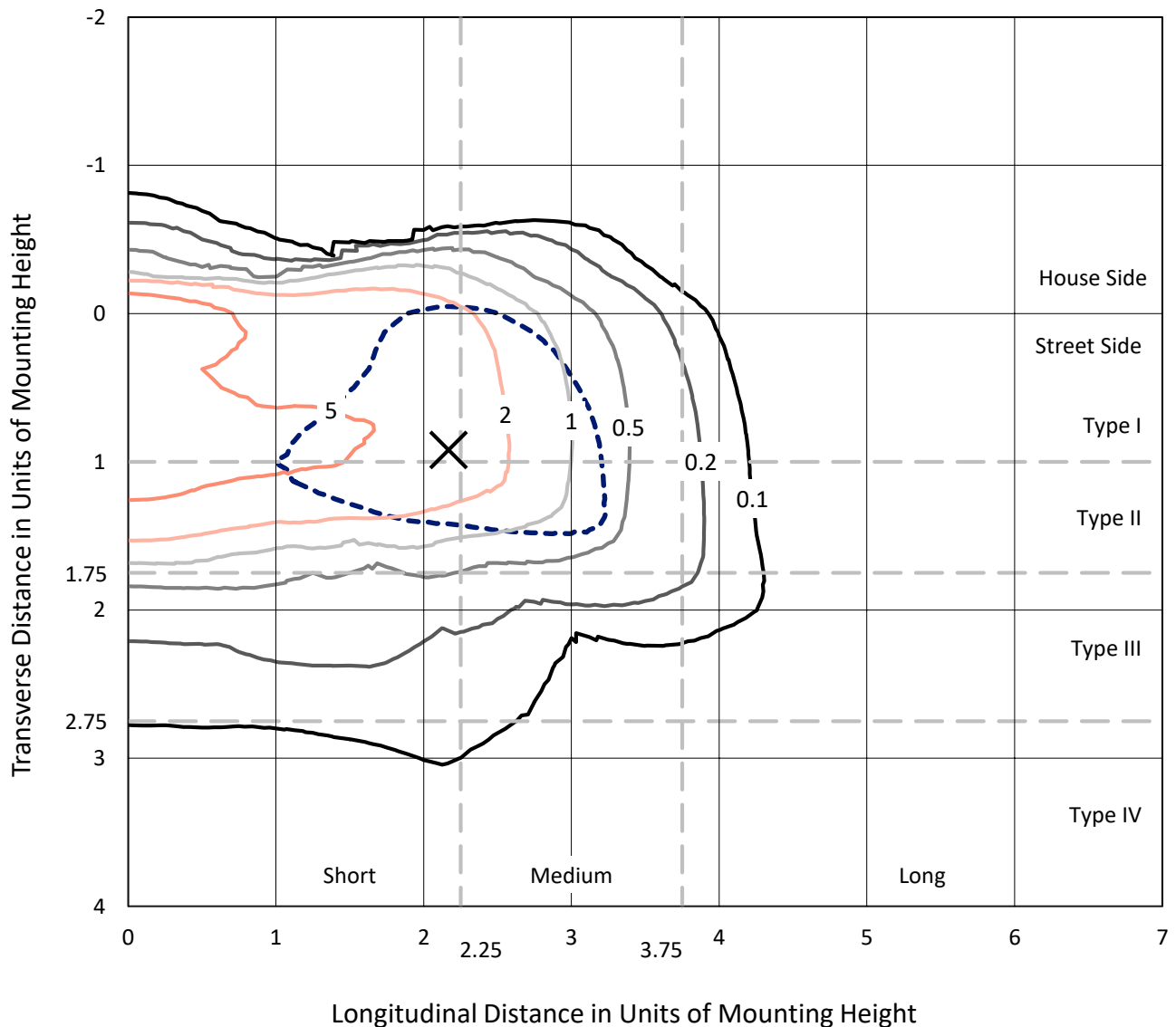


REPORT NUMBER: P191056

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

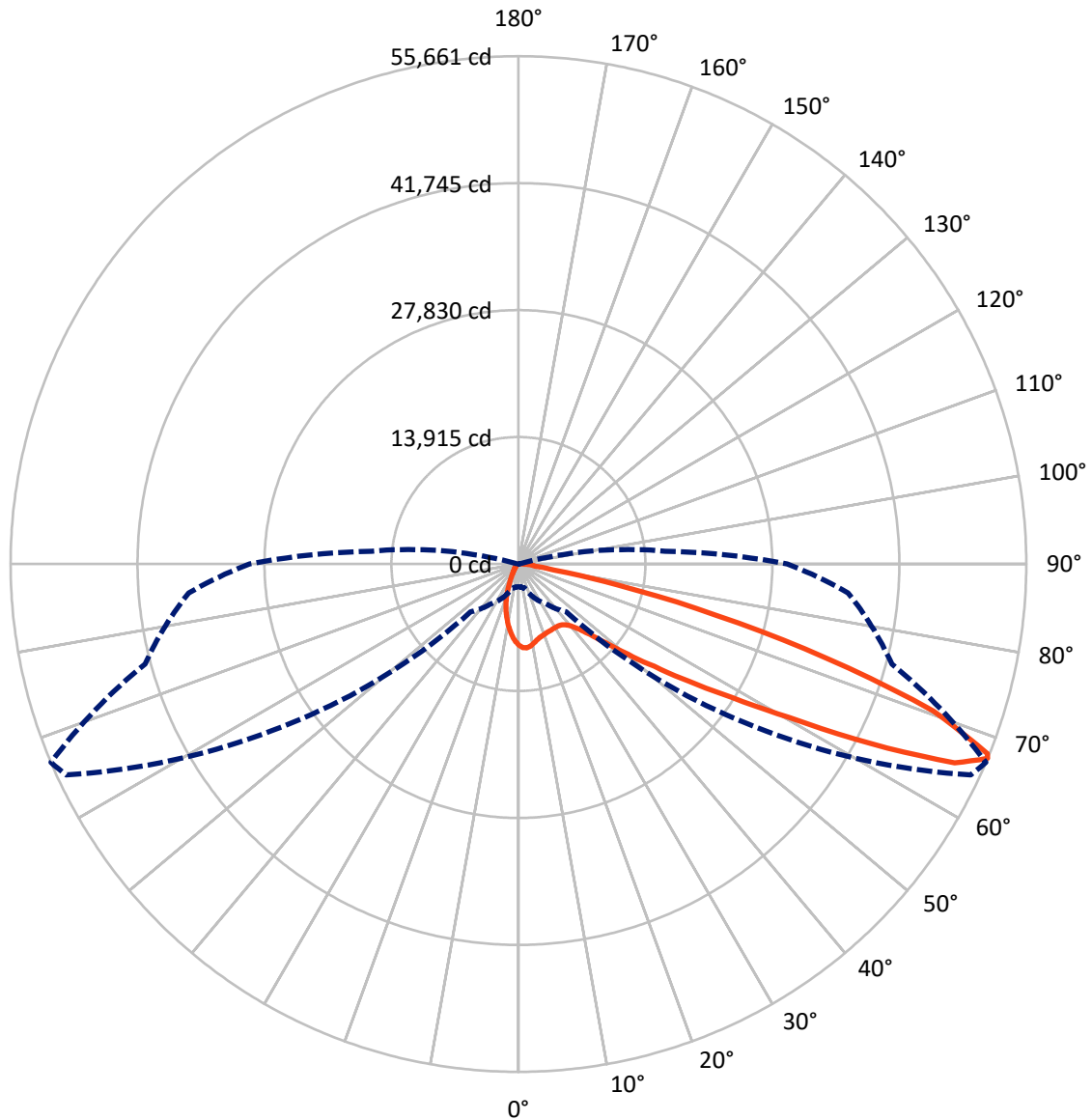


Based on 30 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191056

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P191056

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4196.8	0.0	4196.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	36223.1	0.0	36223.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	40419.9	0.0	40419.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	725.3	1.8
10°-20°	1543.8	3.8
20°-30°	2244.5	5.6
30°-40°	3501.5	8.7
40°-50°	6202.7	15.3
50°-60°	9815.2	24.3
60°-70°	11242.0	27.8
70°-80°	4663.1	11.5
80°-90°	481.7	1.2
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°	40419.9	100.0
0°-180°	40419.9	100.0

Coefficient of Utilization



REPORT NUMBER: P191056

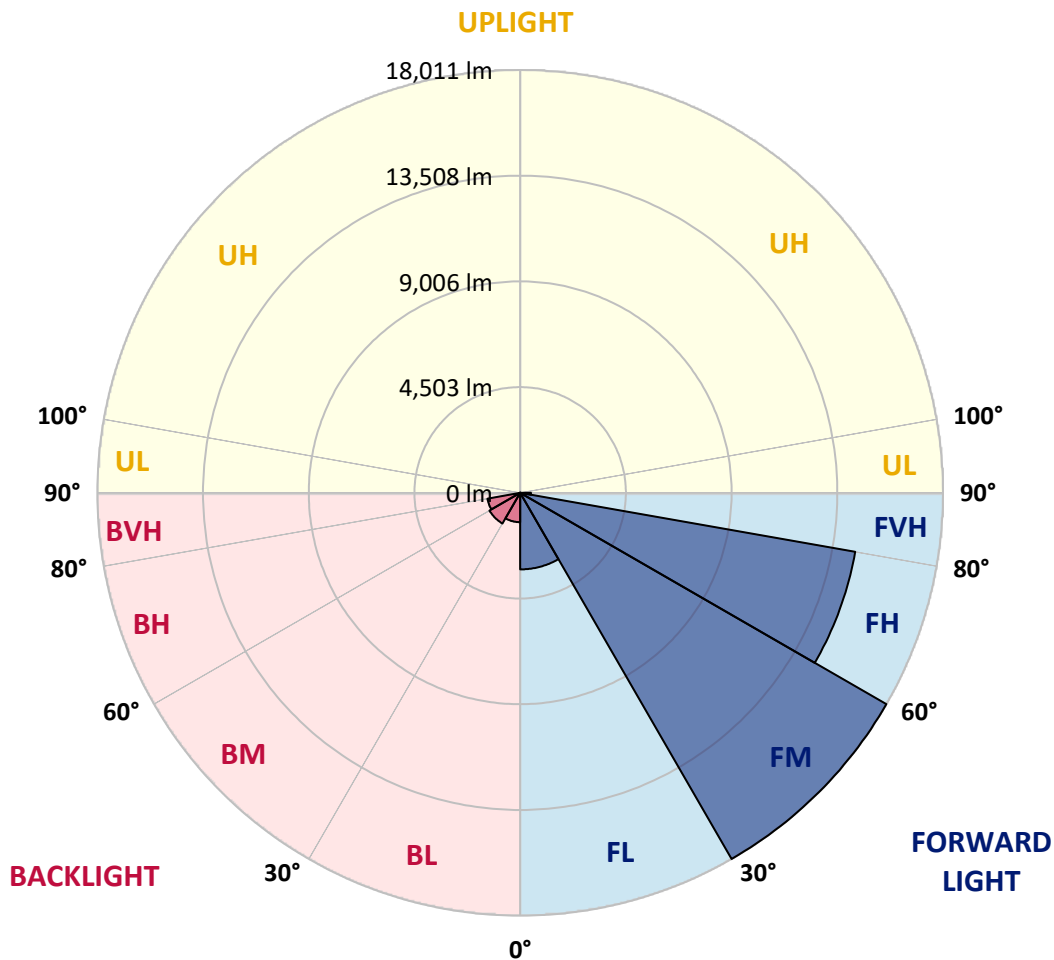
CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3261.3	8.1			
FM	(30°-60°)	18011.2	44.6			
FH	(60°-80°)	14490.6	35.9			G5
FVH	(80°-90°)	460.0	1.1			G3/500
BL	(0°-30°)	1252.3	3.1	B3/2500		
BM	(30°-60°)	1508.3	3.7	B2/2500		
BH	(60°-80°)	1414.5	3.5	B3/2500		G3/2500
BVH	(80°-90°)	21.7	0.1			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 II Short





REPORT NUMBER: P191056

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8914.1	8914.1	8914.1	8914.1	8914.1	8914.1	8914.1	8914.1	8914.1	8914.1	8914.1
2.5°	9215.9	9234.7	9232.3	9246.5	9279.5	9281.8	9248.8	9185.2	9171.1	9088.5	8944.7
5°	8499.1	8553.4	8586.3	8720.8	8871.6	9053.2	9189.9	9239.4	9232.3	9173.4	8956.5
7.5°	7681.0	7735.2	7773.0	7930.9	8131.3	8442.5	8798.5	9090.9	9116.8	9180.5	8947.0
10°	7136.4	7145.8	7197.8	7348.7	7558.5	7876.7	8301.1	8812.7	8890.5	9123.9	8923.5
12.5°	6688.5	6695.6	6764.0	6926.6	7150.6	7471.2	7916.8	8508.6	8628.8	9053.2	8918.8
15°	6370.2	6396.2	6457.5	6627.2	6865.3	7183.6	7640.9	8284.6	8428.4	9027.2	8961.3
17.5°	6264.1	6292.4	6311.3	6433.8	6650.8	6962.0	7431.1	8138.4	8301.1	9041.4	9043.7
20°	6374.9	6396.2	6353.8	6384.3	6518.8	6797.0	7254.4	8013.5	8206.8	9057.9	9149.8
22.5°	6787.5	6797.0	6681.4	6547.1	6523.5	6676.7	7115.2	7914.5	8121.9	9102.7	9274.8
25°	7494.8	7478.3	7289.6	6999.7	6726.2	6655.5	7032.7	7853.2	8079.5	9149.8	9404.5
27.5°	8348.2	8371.8	8112.5	7690.4	7169.5	6797.0	7020.9	7827.2	8060.6	9182.8	9517.6
30°	9385.6	9418.6	9121.6	8591.0	7843.7	7145.8	7129.4	7822.5	8048.9	9161.6	9527.0
32.5°	10444.1	10484.2	10250.8	9703.9	8744.3	7730.5	7374.6	7874.4	8072.4	9088.5	9472.8
35°	11552.2	11608.8	11453.2	10984.0	9965.6	8574.6	7806.0	8032.3	8183.2	9081.5	9418.6
37.5°	13082.3	13134.2	12841.8	12344.4	11443.8	9706.3	8499.1	8329.4	8444.9	9194.6	9432.7
40°	15366.8	15359.7	14605.3	13843.8	13068.2	11144.3	9472.8	8866.9	8925.9	9536.5	9607.2
42.5°	17856.4	17844.7	16729.5	15572.0	14871.8	12915.0	10753.0	9795.8	9755.8	10166.0	10059.9
45°	19775.5	19773.1	18863.1	17559.4	17043.1	14947.2	12408.0	11087.8	11026.5	11189.1	10894.4
47.5°	20593.6	20607.8	20150.4	19233.3	19450.2	17696.1	14494.5	12959.7	12867.8	12801.7	12353.8
50°	19957.1	19985.4	20023.0	19843.9	21216.0	21390.5	17293.0	15597.9	15553.0	15258.3	14558.1
52.5°	17877.7	18021.4	18464.7	19032.9	21829.0	24936.3	21680.4	18874.9	18634.5	18320.8	17549.9
55°	14374.3	14532.2	15373.9	16753.1	20916.6	27265.6	27829.1	23099.8	22699.0	21763.0	20650.2
57.5°	9512.9	9758.1	10979.3	12733.4	18266.6	27640.4	33963.5	28963.1	27567.4	25004.7	23750.5
60°	5241.0	5476.7	6801.7	8390.7	13193.1	25787.4	38089.4	36597.0	34131.0	28628.3	27515.5
62.5°	3227.5	3354.9	4333.2	5811.5	7912.1	20353.1	38942.8	46190.0	43335.0	33294.0	32063.3
65°	2569.8	2624.0	3102.6	4750.6	5672.4	12106.2	36186.8	53503.3	52550.8	38942.8	36134.9
67°	2494.4	2515.5	2741.9	4078.6	5347.1	7421.7	30316.4	54693.9	55660.5	42361.3	36262.2
67.5°	2510.8	2534.5	2749.0	3892.4	5337.6	6820.5	28293.5	54224.7	55446.0	42632.4	35698.7
70°	2421.2	2494.4	3147.4	3890.1	5075.9	5667.7	16944.1	46982.2	48252.9	39612.3	30290.4
72.5°	858.2	862.9	1360.3	3147.4	5519.1	5728.9	8508.6	34442.1	35382.8	30302.2	21838.4
75°	509.2	433.8	452.7	895.9	5273.9	5563.9	4908.5	22008.2	22359.5	17363.7	11059.5
77.5°	351.3	306.5	315.9	396.1	2008.7	5486.1	3899.5	11476.8	11101.9	6089.6	2355.2
80°	200.4	176.9	188.6	346.6	730.9	5118.3	3677.8	4653.9	3967.8	1032.7	650.7
82.5°	106.1	89.6	108.4	285.3	509.2	3189.9	3684.9	2249.2	1782.4	348.9	443.2
85°	37.7	30.7	51.9	195.7	339.5	978.5	3416.1	1890.8	1485.3	169.7	337.2
87.5°	7.1	7.1	21.2	80.2	136.8	299.4	2020.4	1122.2	752.1	101.4	231.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191056

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8914.1	8914.1	8914.1	8914.1	8914.1	8914.1	8914.1	8914.1	8914.1	8914.1	8914.1
2.5°	8885.8	8784.4	8647.6	8480.3	8282.2	8107.8	7978.1	7843.7	7815.4	7768.3	7761.2
5°	8826.8	8652.4	8312.9	7923.9	7509.0	7134.1	6829.9	6558.9	6438.6	6334.8	6323.1
7.5°	8739.6	8477.9	7900.4	7273.2	6624.8	6035.4	5535.6	5182.0	4856.7	4701.1	4677.4
10°	8638.2	8263.4	7435.8	6565.9	5670.0	4837.7	4095.2	3472.7	3095.6	2871.5	2843.3
12.5°	8543.9	8053.6	6962.0	5832.7	4642.2	3529.3	2574.5	1980.3	1584.3	1423.9	1405.1
15°	8499.1	7883.8	6518.8	5082.9	3567.0	2246.8	1407.5	1089.2	959.5	921.8	919.4
17.5°	8494.4	7740.0	6084.9	4307.3	2499.1	1306.1	917.1	837.0	811.0	801.6	801.6
20°	8492.0	7603.3	5651.2	3503.4	1586.7	869.9	763.8	745.0	726.1	714.3	714.3
22.5°	8518.0	7480.6	5198.5	2683.0	999.6	704.9	671.9	653.1	629.5	613.0	610.6
25°	8543.9	7386.3	4736.4	1909.6	723.7	613.0	580.0	554.0	521.0	499.8	497.5
27.5°	8548.6	7268.5	4241.4	1277.8	605.9	535.2	492.8	452.7	414.9	393.7	391.4
30°	8477.9	7070.4	3692.0	862.9	535.2	464.4	407.9	365.4	330.1	313.5	313.5
32.5°	8338.8	6825.2	3088.5	650.7	476.2	398.4	337.2	297.1	273.4	266.4	264.0
35°	8213.9	6561.2	2468.4	551.7	426.8	337.2	275.9	249.9	235.8	233.4	231.1
37.5°	8140.7	6349.0	1886.1	499.8	379.6	282.9	233.4	214.5	207.5	202.7	205.1
40°	8197.3	6172.2	1393.4	457.4	332.5	235.8	198.0	188.6	181.6	179.2	179.2
42.5°	8444.9	6141.5	1035.0	419.6	287.7	195.7	172.1	165.0	160.3	157.9	160.3
45°	9095.6	6330.1	803.9	384.3	242.8	165.0	146.2	143.8	141.5	141.5	141.5
47.5°	10074.0	6719.2	669.5	344.2	202.7	141.5	127.4	124.9	122.5	124.9	124.9
50°	11731.4	7431.1	598.8	304.1	167.4	120.2	108.4	108.4	108.4	108.4	110.8
52.5°	14251.6	8831.5	551.7	264.0	136.8	101.4	92.0	92.0	94.3	94.3	96.7
55°	17059.5	10689.3	509.2	223.9	115.5	84.9	75.5	77.8	80.2	82.6	82.6
57.5°	20105.6	12747.5	473.8	183.9	99.0	68.3	63.6	66.0	68.3	73.0	73.0
60°	23781.0	14975.5	422.0	143.8	82.6	54.2	49.5	54.2	61.3	66.0	68.3
62.5°	27817.3	17130.3	356.0	113.1	68.3	42.5	40.1	49.5	58.9	63.6	66.0
65°	30575.7	17806.9	273.4	92.0	51.9	30.7	33.0	44.8	56.6	63.6	63.6
67°	29458.1	16144.8	223.9	77.8	42.5	23.5	30.7	44.8	56.6	61.3	63.6
67.5°	28682.5	15494.1	214.5	75.5	40.1	23.5	30.7	44.8	56.6	63.6	63.6
70°	23337.8	11639.4	179.2	56.6	33.0	21.2	26.0	42.5	54.2	61.3	61.3
72.5°	16215.5	7176.5	160.3	40.1	28.3	18.8	23.5	40.1	51.9	58.9	61.3
75°	7709.4	2598.1	136.8	30.7	26.0	16.5	21.2	40.1	51.9	58.9	58.9
77.5°	1572.5	603.5	110.8	26.0	21.2	16.5	18.8	37.7	49.5	56.6	56.6
80°	516.3	233.4	82.6	23.5	21.2	16.5	18.8	35.4	49.5	54.2	56.6
82.5°	372.5	117.8	54.2	23.5	21.2	16.5	16.5	35.4	47.2	54.2	54.2
85°	285.3	82.6	35.4	23.5	21.2	16.5	16.5	33.0	44.8	51.9	51.9
87.5°	188.6	33.0	28.3	23.5	21.2	16.5	16.5	33.0	42.5	49.5	51.9
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)