

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: P191855

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191855
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-07-LED-E1-SL2-7050-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 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: 34873 lumens
Efficiency: N/A
Efficacy: 89.2 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): 391
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

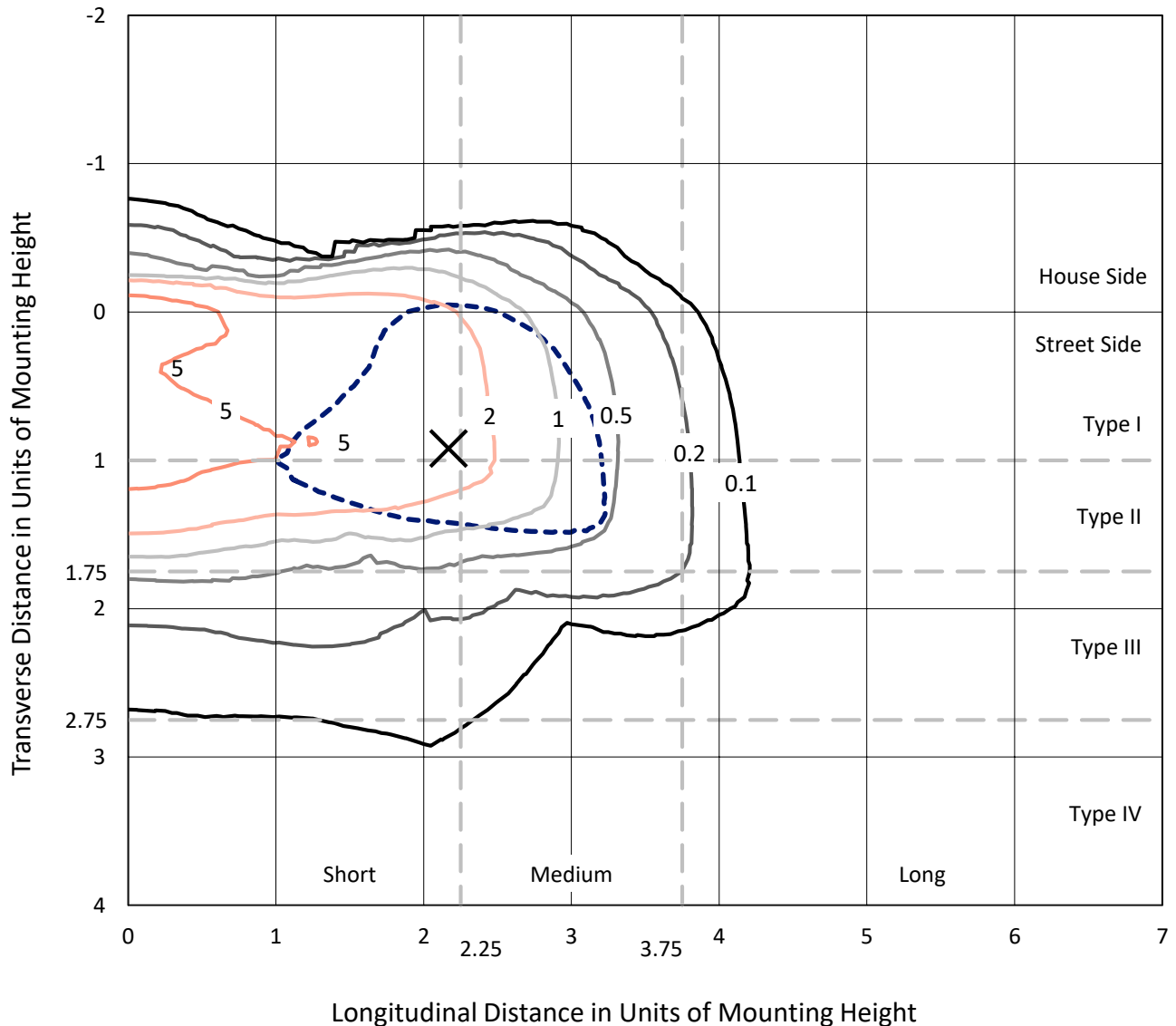


REPORT NUMBER: P191855

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-7050-HSS

Iso-Footcandle Lines of Horizontal Illumination

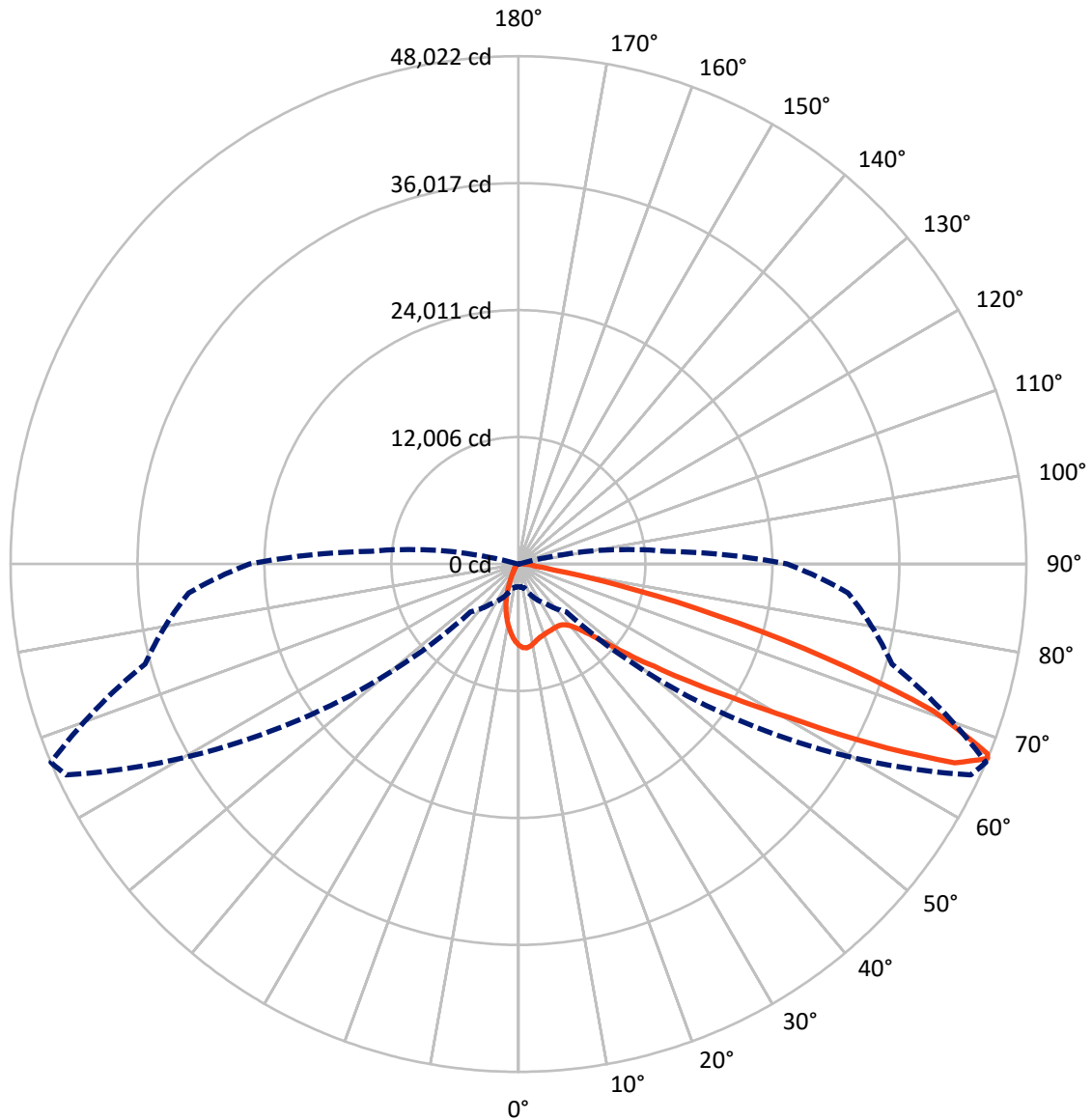
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191855
CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-7050-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191855

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-7050-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3620.9	0.0	3620.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	31252.1	0.0	31252.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	34873.0	0.0	34873.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.8	1.8
10°-20°	1331.9	3.8
20°-30°	1936.5	5.6
30°-40°	3021.0	8.7
40°-50°	5351.5	15.3
50°-60°	8468.3	24.3
60°-70°	9699.2	27.8
70°-80°	4023.2	11.5
80°-90°	415.6	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°	34873.0	100.0
0°-180°	34873.0	100.0

Coefficient of Utilization



REPORT NUMBER: P191855

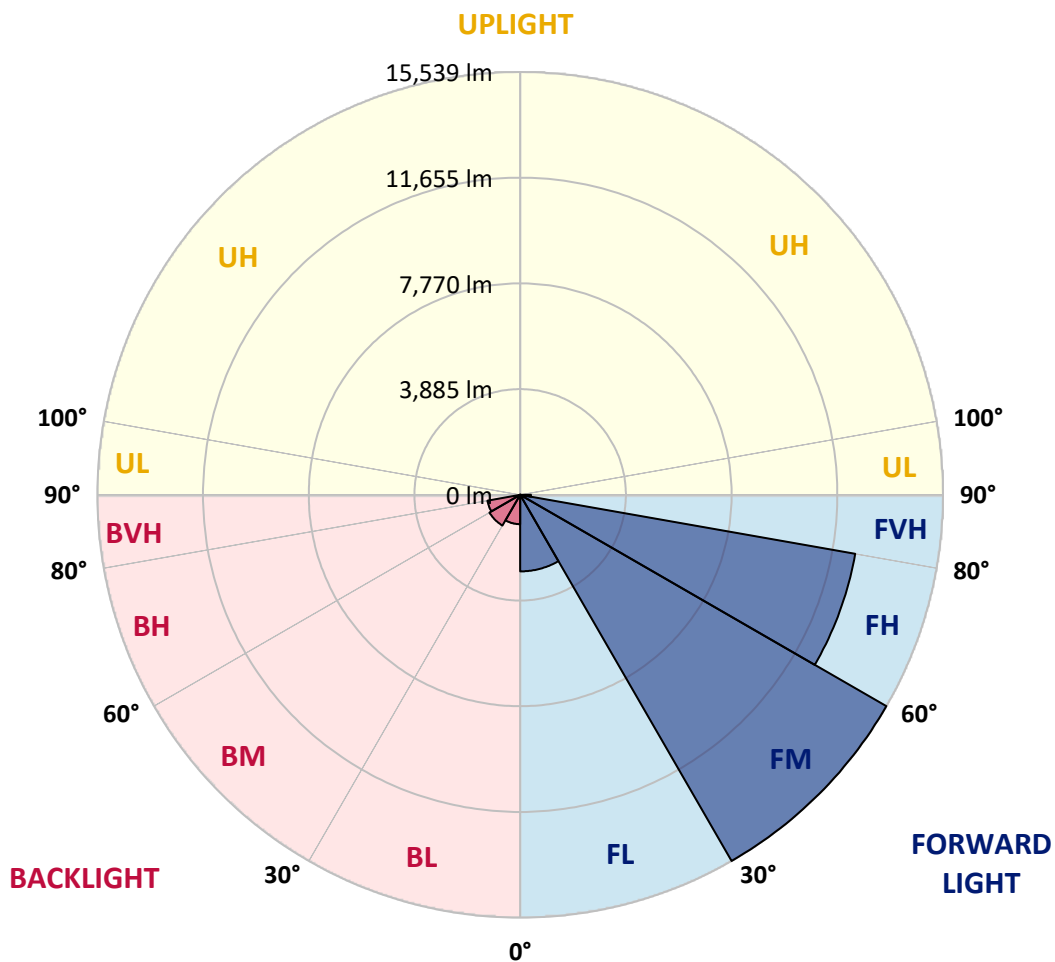
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2813.7	8.1			
FM	(30°-60°)	15539.5	44.6			
FH	(60°-80°)	12502.1	35.9			G5
FVH	(80°-90°)	396.9	1.1			G3/500
BL	(0°-30°)	1080.5	3.1	B3/2500		
BM	(30°-60°)	1301.3	3.7	B2/2500		
BH	(60°-80°)	1220.4	3.5	B3/2500		G3/2500
BVH	(80°-90°)	18.7	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: P191855

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-7050-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7690.8	7690.8	7690.8	7690.8	7690.8	7690.8	7690.8	7690.8	7690.8	7690.8	7690.8
2.5°	7951.1	7967.4	7965.4	7977.6	8006.1	8008.1	7979.6	7924.7	7912.5	7841.3	7717.2
5°	7332.8	7379.6	7408.0	7524.0	7654.2	7810.8	7928.8	7971.5	7965.4	7914.5	7727.4
7.5°	6627.0	6673.8	6706.3	6842.6	7015.5	7284.0	7591.1	7843.3	7865.7	7920.6	7719.3
10°	6157.1	6165.2	6210.0	6340.2	6521.2	6795.8	7161.9	7603.3	7670.4	7871.8	7698.9
12.5°	5770.6	5776.7	5835.7	5976.1	6169.3	6445.9	6830.4	7340.9	7444.7	7810.8	7694.9
15°	5496.0	5518.4	5571.3	5717.7	5923.2	6197.8	6592.4	7147.7	7271.8	7788.4	7731.5
17.5°	5404.5	5428.9	5445.2	5551.0	5738.1	6006.6	6411.4	7021.6	7161.9	7800.6	7802.7
20°	5500.1	5518.4	5481.8	5508.2	5624.2	5864.2	6258.8	6913.8	7080.6	7814.9	7894.2
22.5°	5856.1	5864.2	5764.5	5648.6	5628.2	5760.5	6138.8	6828.3	7007.3	7853.5	8002.0
25°	6466.3	6452.0	6289.3	6039.1	5803.2	5742.2	6067.6	6775.5	6970.7	7894.2	8113.9
27.5°	7202.6	7223.0	6999.2	6635.1	6185.6	5864.2	6057.4	6753.1	6954.5	7922.7	8211.5
30°	8097.6	8126.1	7869.8	7412.1	6767.3	6165.2	6151.0	6749.0	6944.3	7904.4	8219.6
32.5°	9010.9	9045.5	8844.1	8372.2	7544.3	6669.7	6362.5	6793.8	6964.6	7841.3	8172.9
35°	9966.9	10015.7	9881.5	9476.7	8598.0	7397.9	6734.8	6930.0	7060.2	7835.2	8126.1
37.5°	11287.0	11331.8	11079.5	10650.3	9873.3	8374.2	7332.8	7186.3	7286.0	7932.8	8138.3
40°	13258.0	13251.9	12601.0	11944.0	11274.8	9615.0	8172.9	7650.1	7701.0	8227.8	8288.8
42.5°	15406.0	15395.8	14433.7	13435.0	12830.9	11142.6	9277.4	8451.5	8416.9	8770.9	8679.3
45°	17061.7	17059.7	16274.5	15149.7	14704.2	12895.9	10705.3	9566.2	9513.3	9653.7	9399.4
47.5°	17767.5	17779.7	17385.1	16593.9	16781.0	15267.7	12505.4	11181.2	11101.9	11045.0	10658.5
50°	17218.3	17242.7	17275.3	17120.7	18304.5	18455.0	14919.8	13457.3	13418.7	13164.4	12560.3
52.5°	15424.3	15548.4	15930.8	16421.0	18833.4	21514.3	18705.2	16284.7	16077.2	15806.7	15141.5
55°	12401.7	12538.0	13264.1	14454.0	18046.2	23523.9	24010.1	19929.7	19583.9	18776.4	17816.3
57.5°	8207.4	8419.0	9472.6	10986.0	15759.9	23847.3	29302.7	24988.4	23784.3	21573.3	20491.1
60°	4521.7	4725.1	5868.3	7239.2	11382.6	22248.6	32862.3	31574.7	29447.1	24699.6	23739.5
62.5°	2784.6	2894.5	3738.6	5014.0	6826.3	17560.0	33598.6	39851.3	37388.1	28725.0	27663.2
65°	2217.1	2263.9	2676.8	4098.6	4894.0	10444.9	31220.8	46161.0	45339.2	33598.6	31176.1
67°	2152.0	2170.3	2365.6	3518.9	4613.3	6403.2	26156.0	47188.2	48022.1	36548.0	31285.9
67.5°	2166.3	2186.6	2371.7	3358.2	4605.1	5884.5	24410.8	46783.4	47837.0	36781.9	30799.8
70°	2089.0	2152.0	2715.5	3356.2	4379.3	4889.9	14618.8	40534.8	41631.1	34176.3	26133.6
72.5°	740.4	744.5	1173.7	2715.5	4761.7	4942.8	7340.9	29715.6	30527.2	26143.8	18841.5
75°	439.4	374.3	390.5	772.9	4550.2	4800.4	4234.9	18988.0	19291.0	14980.9	9541.8
77.5°	303.1	264.4	272.6	341.7	1733.0	4733.3	3364.3	9901.8	9578.4	5254.0	2032.0
80°	172.9	152.6	162.7	299.0	630.6	4415.9	3173.1	4015.2	3423.3	890.9	561.4
82.5°	91.5	77.3	93.6	246.1	439.4	2752.1	3179.2	1940.5	1537.8	301.0	382.4
85°	32.5	26.4	44.7	168.8	292.9	844.1	2947.4	1631.3	1281.5	146.5	290.9
87.5°	6.1	6.1	18.3	69.2	118.0	258.3	1743.2	968.2	648.9	87.5	199.3
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: P191855

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-7050-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7690.8	7690.8	7690.8	7690.8	7690.8	7690.8	7690.8	7690.8	7690.8	7690.8	7690.8
2.5°	7666.4	7578.9	7460.9	7316.5	7145.7	6995.1	6883.3	6767.3	6742.9	6702.2	6696.1
5°	7615.5	7465.0	7172.1	6836.5	6478.5	6155.1	5892.7	5658.8	5555.0	5465.5	5455.4
7.5°	7540.3	7314.5	6816.1	6275.1	5715.7	5207.2	4776.0	4470.9	4190.2	4055.9	4035.6
10°	7452.8	7129.4	6415.4	5664.9	4891.9	4173.9	3533.2	2996.2	2670.7	2477.5	2453.1
12.5°	7371.4	6948.4	6006.6	5032.3	4005.1	3045.0	2221.2	1708.6	1366.9	1228.6	1212.3
15°	7332.8	6801.9	5624.2	4385.4	3077.5	1938.5	1214.3	939.7	827.9	795.3	793.3
17.5°	7328.7	6677.8	5249.9	3716.2	2156.1	1126.9	791.2	722.1	699.7	691.6	691.6
20°	7326.7	6559.8	4875.6	3022.6	1368.9	750.6	659.0	642.8	626.5	616.3	616.3
22.5°	7349.1	6454.1	4485.1	2314.8	862.4	608.2	579.7	563.4	543.1	528.9	526.8
25°	7371.4	6372.7	4086.4	1647.6	624.5	528.9	500.4	478.0	449.5	431.2	429.2
27.5°	7375.5	6271.0	3659.3	1102.5	522.8	461.7	425.1	390.5	358.0	339.7	337.7
30°	7314.5	6100.1	3185.3	744.5	461.7	400.7	351.9	315.3	284.8	270.5	270.5
32.5°	7194.5	5888.6	2664.6	561.4	410.9	343.8	290.9	256.3	236.0	229.8	227.8
35°	7086.7	5660.8	2129.7	476.0	368.2	290.9	238.0	215.6	203.4	201.4	199.3
37.5°	7023.6	5477.7	1627.2	431.2	327.5	244.1	201.4	185.1	179.0	174.9	177.0
40°	7072.4	5325.2	1202.1	394.6	286.8	203.4	170.9	162.7	156.6	154.6	154.6
42.5°	7286.0	5298.7	893.0	362.1	248.2	168.8	148.5	142.4	138.3	136.3	138.3
45°	7847.4	5461.5	693.6	331.6	209.5	142.4	126.1	124.1	122.0	122.0	122.0
47.5°	8691.5	5797.1	577.7	297.0	174.9	122.0	109.8	107.8	105.8	107.8	107.8
50°	10121.5	6411.4	516.7	262.4	144.4	103.7	93.6	93.6	93.6	93.6	95.6
52.5°	12295.9	7619.6	476.0	227.8	118.0	87.5	79.3	79.3	81.4	81.4	83.4
55°	14718.5	9222.4	439.4	193.2	99.7	73.2	65.1	67.1	69.2	71.2	71.2
57.5°	17346.5	10998.2	408.8	158.7	85.4	59.0	54.9	57.0	59.0	63.1	63.1
60°	20517.6	12920.4	364.1	124.1	71.2	46.8	42.7	46.8	52.9	57.0	59.0
62.5°	23999.9	14779.5	307.1	97.6	59.0	36.6	34.6	42.7	50.9	54.9	57.0
65°	26379.7	15363.3	236.0	79.3	44.7	26.4	28.5	38.6	48.8	54.9	54.9
67°	25415.6	13929.2	193.2	67.1	36.6	20.3	26.4	38.6	48.8	52.9	54.9
67.5°	24746.4	13367.8	185.1	65.1	34.6	20.3	26.4	38.6	48.8	54.9	54.9
70°	20135.2	10042.2	154.6	48.8	28.5	18.3	22.4	36.6	46.8	52.9	52.9
72.5°	13990.3	6191.7	138.3	34.6	24.4	16.3	20.3	34.6	44.7	50.9	52.9
75°	6651.4	2241.5	118.0	26.4	22.4	14.2	18.3	34.6	44.7	50.9	50.9
77.5°	1356.7	520.7	95.6	22.4	18.3	14.2	16.3	32.5	42.7	48.8	48.8
80°	445.5	201.4	71.2	20.3	18.3	14.2	16.3	30.5	42.7	46.8	48.8
82.5°	321.4	101.7	46.8	20.3	18.3	14.2	14.2	30.5	40.7	46.8	46.8
85°	246.1	71.2	30.5	20.3	18.3	14.2	14.2	28.5	38.6	44.7	44.7
87.5°	162.7	28.5	24.4	20.3	18.3	14.2	14.2	28.5	36.6	42.7	44.7
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)