

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: P269472

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269472
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-SL2-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 30298.3 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 391
Input Voltage (V): NR
Input Current (A_{in}): 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

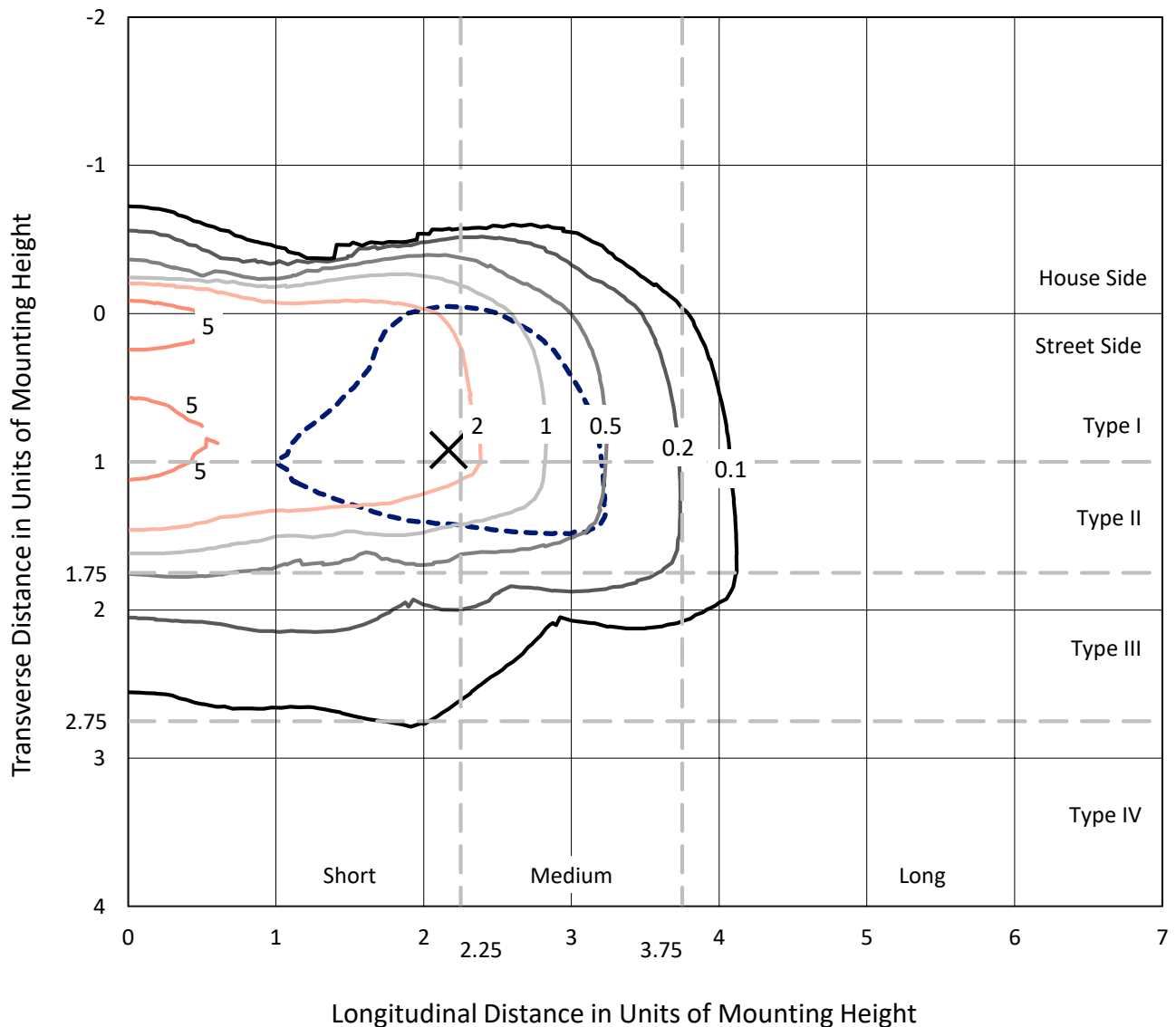


REPORT NUMBER: P269472

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-7027-HSS

Iso-Footcandle Lines of Horizontal Illumination

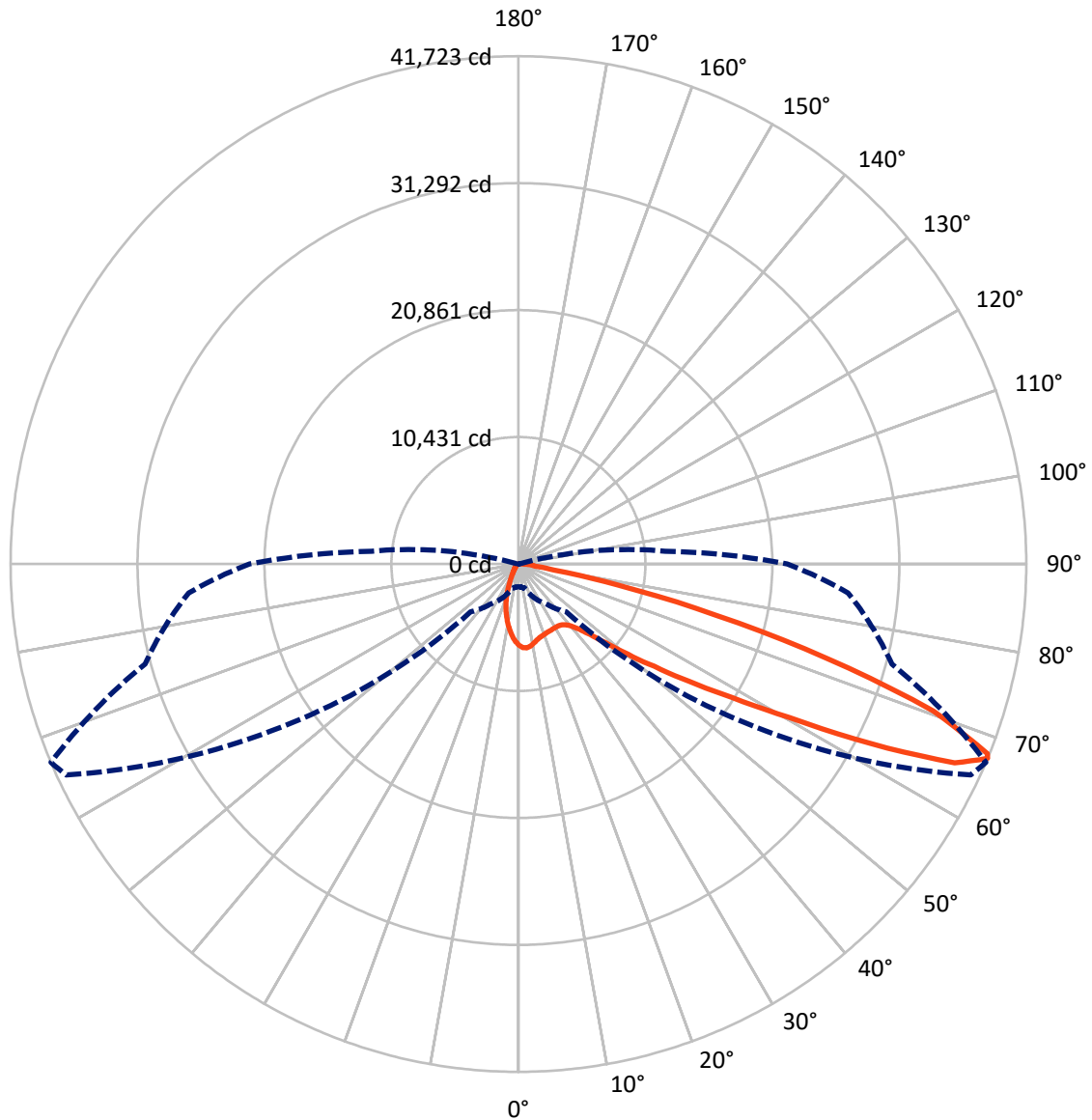
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P269472
CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-7027-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269472

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-7027-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3145.8	0.0	3145.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	27152.5	0.0	27152.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	30298.3	0.0	30298.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.7	1.8
10°-20°	1157.2	3.8
20°-30°	1682.5	5.6
30°-40°	2624.7	8.7
40°-50°	4649.5	15.3
50°-60°	7357.4	24.3
60°-70°	8426.9	27.8
70°-80°	3495.4	11.5
80°-90°	361.0	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°	30298.3	100.0
0°-180°	30298.3	100.0



REPORT NUMBER: P269472

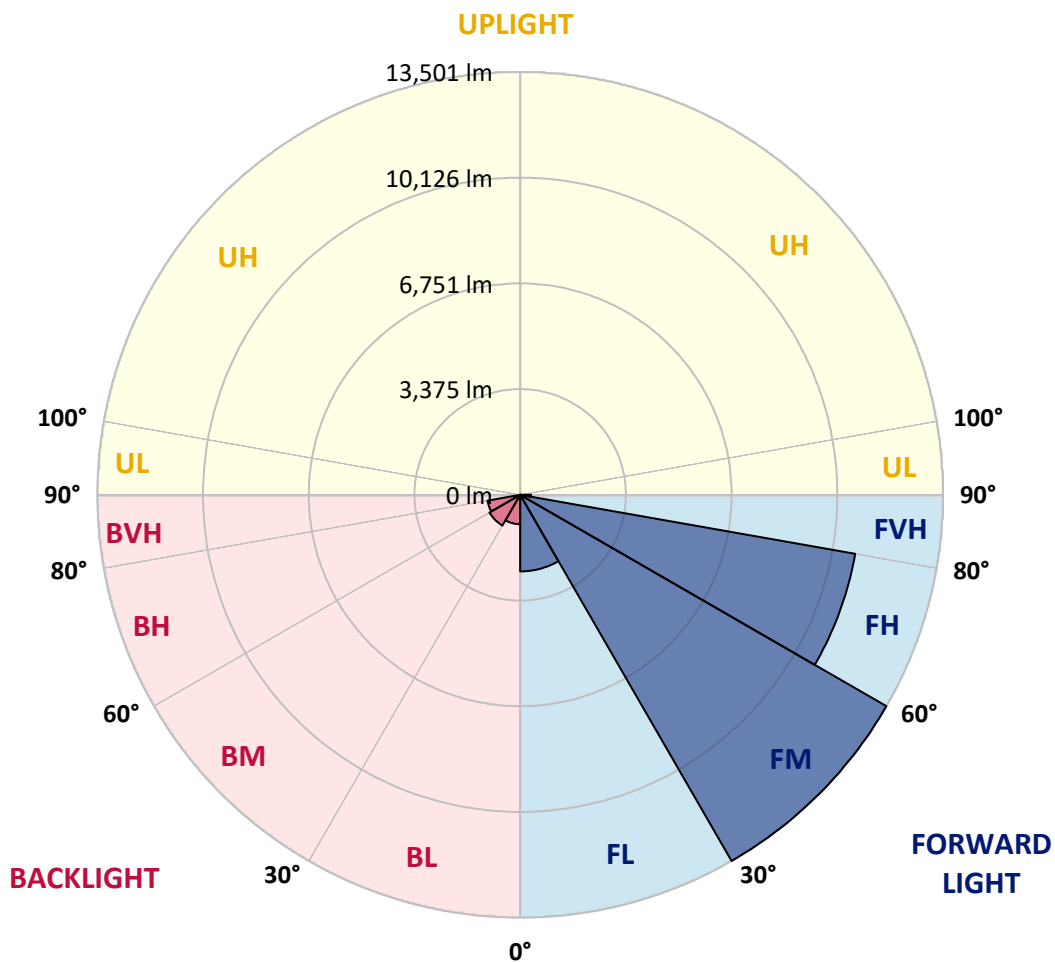
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2444.6	8.1			
FM (30°-60°)	13501.0	44.6			
FH (60°-80°)	10862.0	35.9			G4/12000
FVH (80°-90°)	344.8	1.1			G3/500
BL (0°-30°)	938.7	3.1	B2/1000		
BM (30°-60°)	1130.6	3.7	B2/2500		
BH (60°-80°)	1060.3	3.5	B3/2500		G3/2500
BVH (80°-90°)	16.2	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-G4

Type II Short





REPORT NUMBER: P269472

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-7027-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6682.0	6682.0	6682.0	6682.0	6682.0	6682.0	6682.0	6682.0	6682.0	6682.0	6682.0
2.5°	6908.1	6922.2	6920.5	6931.1	6955.8	6957.6	6932.8	6885.1	6874.5	6812.7	6704.9
5°	6370.9	6411.6	6436.3	6537.0	6650.2	6786.2	6888.7	6925.8	6920.5	6876.3	6713.8
7.5°	5757.6	5798.3	5826.5	5945.0	6095.2	6328.5	6595.3	6814.5	6833.9	6881.6	6706.7
10°	5349.3	5356.5	5395.4	5508.4	5665.7	5904.3	6222.4	6606.0	6664.3	6839.2	6689.0
12.5°	5013.6	5018.9	5070.3	5192.2	5359.9	5600.4	5934.4	6378.0	6468.1	6786.2	6685.5
15°	4775.1	4794.6	4840.4	4967.6	5146.2	5384.8	5727.7	6210.1	6317.9	6766.8	6717.3
17.5°	4695.5	4716.7	4730.8	4822.8	4985.4	5218.7	5570.3	6100.5	6222.4	6777.4	6779.1
20°	4778.7	4794.6	4762.8	4785.7	4886.4	5094.9	5437.8	6006.8	6151.8	6789.7	6858.6
22.5°	5087.9	5094.9	5008.3	4907.6	4890.0	5004.7	5333.4	5932.5	6088.2	6823.3	6952.3
25°	5618.0	5605.7	5464.3	5246.9	5041.8	4988.8	5271.7	5886.7	6056.4	6858.6	7049.4
27.5°	6257.8	6275.4	6081.0	5764.8	5374.1	5094.9	5262.8	5867.2	6042.2	6883.4	7134.2
30°	7035.3	7060.0	6837.4	6439.8	5879.5	5356.5	5344.0	5863.6	6033.3	6867.5	7141.3
32.5°	7828.8	7858.9	7683.9	7273.9	6554.7	5794.7	5527.9	5902.6	6051.1	6812.7	7100.7
35°	8659.4	8701.8	8585.2	8233.5	7470.0	6427.5	5851.3	6021.0	6134.0	6807.4	7060.0
37.5°	9806.3	9845.2	9626.1	9253.3	8578.2	7275.7	6370.9	6243.6	6330.3	6892.2	7070.6
40°	11518.7	11513.4	10948.1	10377.2	9795.7	8353.7	7100.7	6646.6	6690.8	7148.4	7201.4
42.5°	13385.0	13376.2	12540.2	11672.5	11147.6	9680.9	8060.3	7342.8	7312.8	7620.3	7540.8
45°	14823.6	14821.8	14139.6	13162.3	12775.3	11204.2	9301.0	8311.3	8265.3	8387.3	8166.4
47.5°	15436.7	15447.3	15104.6	14417.1	14579.6	13264.8	10864.9	9714.5	9645.6	9596.1	9260.3
50°	14959.7	14980.9	15009.2	14874.8	15903.4	16034.0	12962.6	11692.0	11658.5	11437.5	10912.7
52.5°	13400.9	13508.7	13840.9	14266.8	16362.7	18692.0	16251.4	14148.5	13968.1	13733.2	13155.3
55°	10774.8	10893.1	11524.1	12557.9	15678.8	20438.1	20860.4	17315.3	17014.8	16313.3	15479.1
57.5°	7130.7	7314.5	8230.0	9544.9	13692.5	20719.0	25458.8	21710.4	20664.3	18743.2	17803.1
60°	3928.6	4105.3	5098.5	6289.6	9889.4	19330.0	28551.4	27432.7	25584.2	21459.5	20625.4
62.5°	2419.3	2514.7	3248.2	4356.2	5930.8	15256.5	29191.1	34623.6	32483.5	24956.8	24034.3
65°	1926.2	1966.8	2325.7	3561.1	4251.9	9074.8	27125.2	40105.5	39391.5	29191.1	27086.4
67°	1869.7	1885.6	2055.3	3057.3	4008.1	5563.3	22724.9	40997.9	41722.6	31753.6	27181.8
67.5°	1882.0	1899.7	2060.6	2917.7	4001.1	5112.7	21208.5	40646.2	41561.7	31956.8	26759.4
70°	1814.9	1869.7	2359.3	2915.9	3804.9	4248.4	12701.0	35217.4	36170.0	29693.0	22705.4
72.5°	643.2	646.8	1019.7	2359.3	4137.1	4294.3	6378.0	25817.5	26522.5	22714.3	16369.9
75°	381.7	325.1	339.3	671.6	3953.4	4170.7	3679.4	16497.2	16760.4	13015.6	8290.1
77.5°	263.4	229.7	236.9	296.9	1505.6	4112.4	2923.1	8602.9	8321.9	4564.7	1765.4
80°	150.1	132.5	141.4	259.8	547.8	3836.7	2756.9	3488.5	2974.3	774.1	487.8
82.5°	79.5	67.2	81.2	213.8	381.7	2391.1	2762.2	1685.8	1336.0	261.5	332.3
85°	28.2	22.9	38.8	146.7	254.5	733.3	2560.7	1417.3	1113.4	127.2	252.8
87.5°	5.3	5.3	15.9	60.0	102.4	224.4	1514.5	841.3	563.7	75.9	173.3
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: P269472

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-7027-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6682.0	6682.0	6682.0	6682.0	6682.0	6682.0	6682.0	6682.0	6682.0	6682.0	6682.0
2.5°	6660.8	6584.7	6482.2	6356.8	6208.2	6077.6	5980.2	5879.5	5858.3	5823.1	5817.8
5°	6616.6	6485.8	6231.3	5939.7	5628.6	5347.6	5119.7	4916.5	4826.4	4748.5	4739.6
7.5°	6551.1	6355.0	5921.9	5452.0	4965.9	4524.1	4149.5	3884.5	3640.6	3523.8	3506.2
10°	6475.2	6194.2	5573.9	4921.8	4250.2	3626.4	3069.7	2603.1	2320.4	2152.5	2131.3
12.5°	6404.5	6036.9	5218.7	4372.1	3479.7	2645.6	1929.7	1484.4	1187.6	1067.4	1053.3
15°	6370.9	5909.6	4886.4	3810.2	2673.8	1684.1	1055.0	816.5	719.3	690.9	689.2
17.5°	6367.4	5801.9	4561.2	3228.8	1873.2	979.1	687.5	627.3	608.0	600.8	600.8
20°	6365.6	5699.3	4236.0	2626.1	1189.4	652.1	572.6	558.4	544.4	535.5	535.5
22.5°	6385.1	5607.4	3896.8	2011.1	749.2	528.5	503.7	489.5	471.9	459.5	457.6
25°	6404.5	5536.8	3550.5	1431.4	542.5	459.5	434.7	415.2	390.6	374.7	372.8
27.5°	6408.0	5448.4	3179.2	957.9	454.2	401.2	369.4	339.3	311.1	295.2	293.3
30°	6355.0	5299.9	2767.5	646.8	401.2	348.2	305.8	274.0	247.5	235.0	235.0
32.5°	6250.6	5116.1	2315.1	487.8	356.9	298.6	252.8	222.7	205.1	199.8	197.9
35°	6157.1	4918.2	1850.2	413.5	319.8	252.8	206.8	187.3	176.7	175.0	173.3
37.5°	6102.2	4759.1	1413.8	374.7	284.6	212.1	175.0	160.8	155.5	152.0	153.8
40°	6144.6	4626.6	1044.4	342.9	249.2	176.7	148.4	141.4	136.1	134.2	134.2
42.5°	6330.3	4603.6	775.9	314.5	215.7	146.7	128.9	123.6	120.2	118.3	120.2
45°	6818.0	4744.9	602.7	288.0	182.0	123.6	109.6	107.7	106.0	106.0	106.0
47.5°	7551.4	5036.5	502.0	258.1	152.0	106.0	95.4	93.7	91.8	93.7	93.7
50°	8793.8	5570.3	448.9	228.0	125.5	90.1	81.2	81.2	81.2	81.2	83.1
52.5°	10683.0	6620.1	413.5	197.9	102.4	75.9	68.9	68.9	70.6	70.6	72.5
55°	12787.7	8012.6	381.7	168.0	86.5	63.6	56.6	58.3	60.0	61.9	61.9
57.5°	15071.0	9555.5	355.2	137.8	74.2	51.3	47.7	49.4	51.3	54.7	54.7
60°	17826.1	11225.5	316.4	107.7	61.9	40.7	37.1	40.7	46.0	49.4	51.3
62.5°	20851.5	12840.7	266.8	84.8	51.3	31.8	30.1	37.1	44.1	47.7	49.4
65°	22919.3	13347.8	205.1	68.9	38.8	22.9	24.8	33.5	42.4	47.7	47.7
67°	22081.5	12102.0	168.0	58.3	31.8	17.6	22.9	33.5	42.4	46.0	47.7
67.5°	21500.2	11614.2	160.8	56.6	30.1	17.6	22.9	33.5	42.4	47.7	47.7
70°	17493.9	8724.8	134.2	42.4	24.8	15.9	19.5	31.8	40.7	46.0	46.0
72.5°	12155.1	5379.5	120.2	30.1	21.2	14.2	17.6	30.1	38.8	44.1	46.0
75°	5778.8	1947.4	102.4	22.9	19.5	12.3	15.9	30.1	38.8	44.1	44.1
77.5°	1178.8	452.3	83.1	19.5	15.9	12.3	14.2	28.2	37.1	42.4	42.4
80°	387.0	175.0	61.9	17.6	15.9	12.3	14.2	26.5	37.1	40.7	42.4
82.5°	279.3	88.4	40.7	17.6	15.9	12.3	12.3	26.5	35.4	40.7	40.7
85°	213.8	61.9	26.5	17.6	15.9	12.3	12.3	24.8	33.5	38.8	38.8
87.5°	141.4	24.8	21.2	17.6	15.9	12.3	12.3	24.8	31.8	37.1	38.8
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)