

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: P193605

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193605
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-SL2-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA 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: 31216 lumens
Efficiency: N/A
Efficacy: 69.7 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): 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

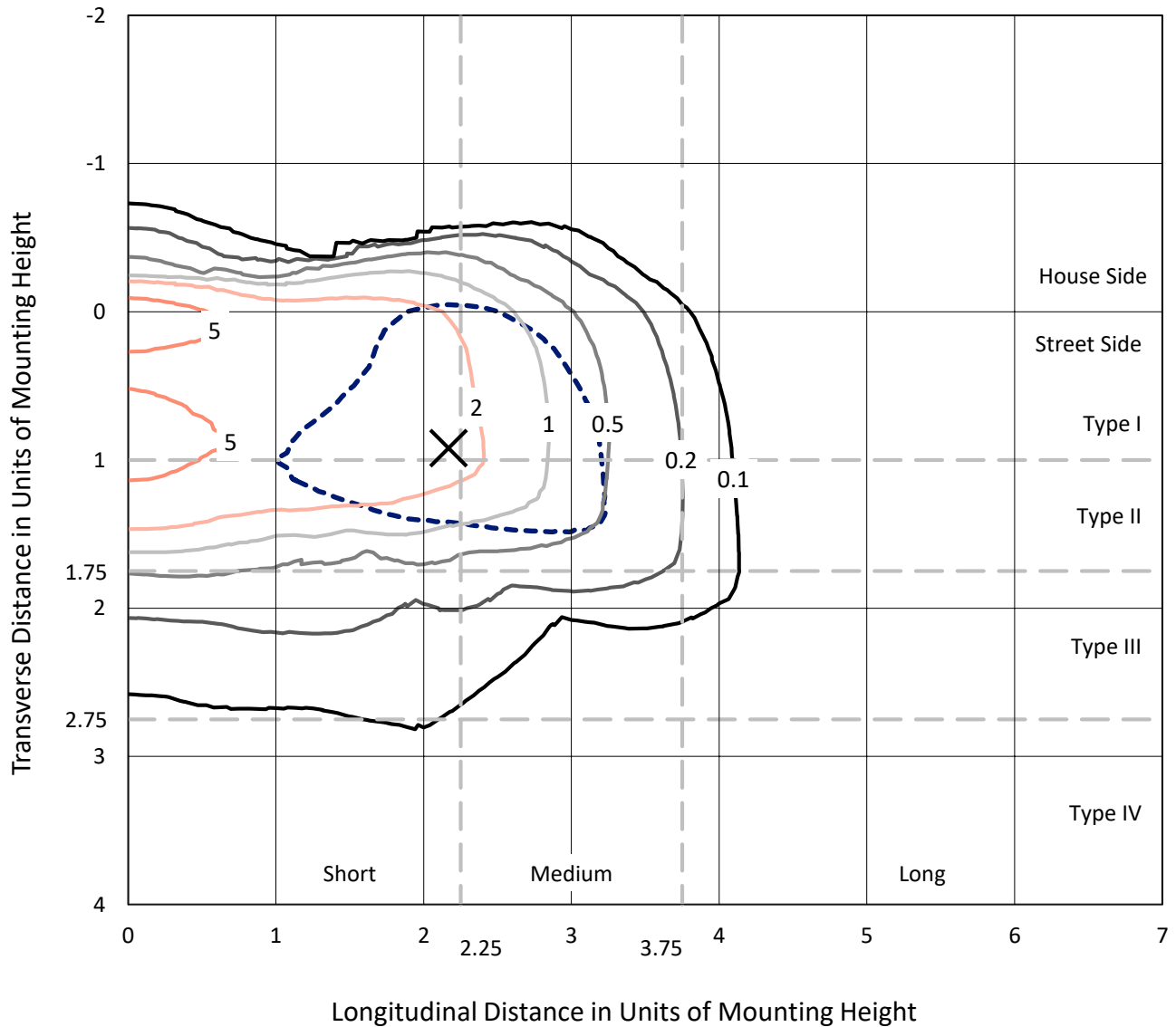


REPORT NUMBER: P193605

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-8030-1200-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

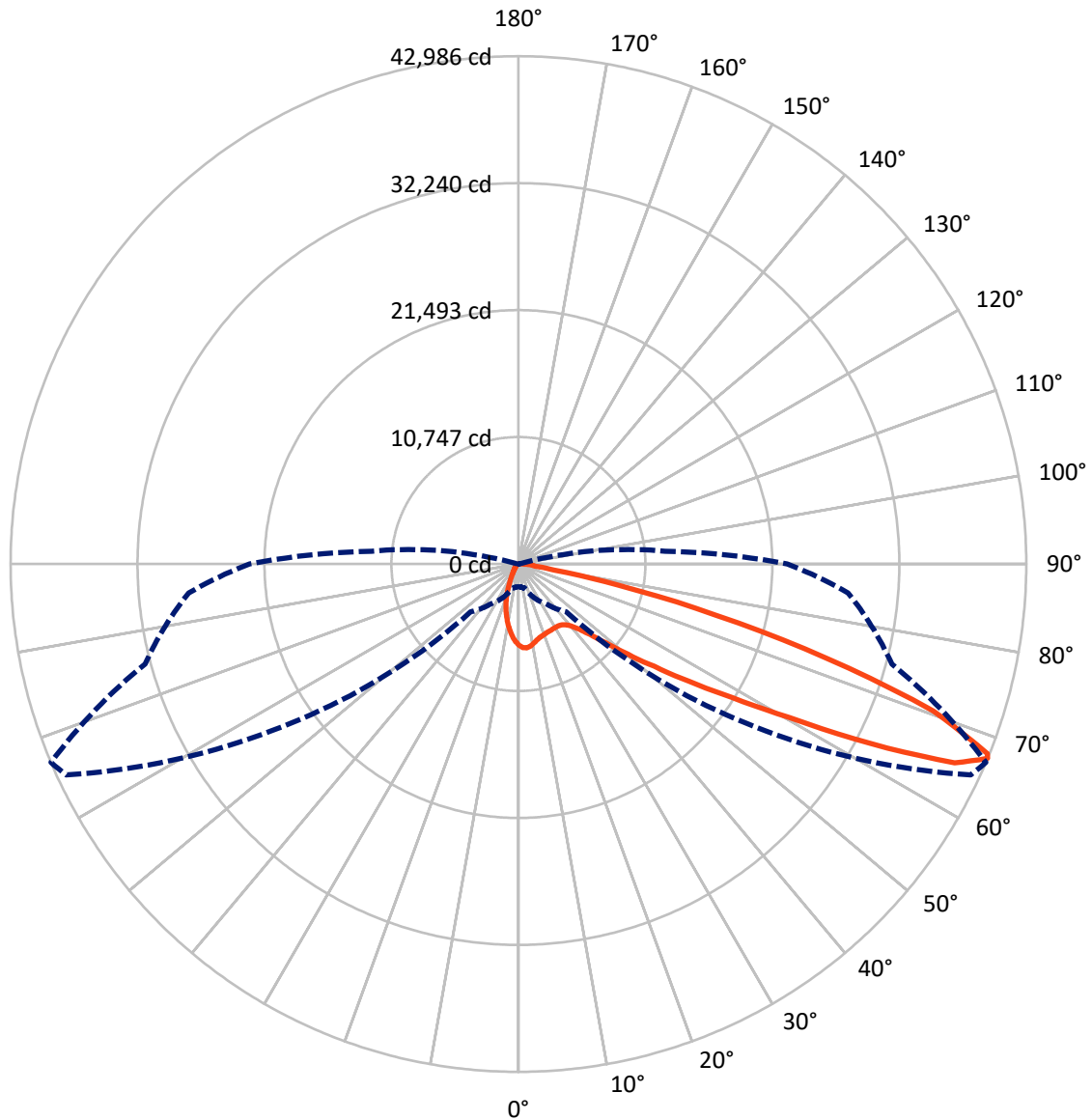


Based on 30 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P193605

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-8030-1200-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193605

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-8030-1200-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3241.2	0.0	3241.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	27974.9	0.0	27974.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	31216.0	0.0	31216.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.2	1.8
10°-20°	1192.2	3.8
20°-30°	1733.4	5.6
30°-40°	2704.2	8.7
40°-50°	4790.3	15.3
50°-60°	7580.2	24.3
60°-70°	8682.1	27.8
70°-80°	3601.3	11.5
80°-90°	372.0	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°	31216.0	100.0
0°-180°	31216.0	100.0



REPORT NUMBER: P193605

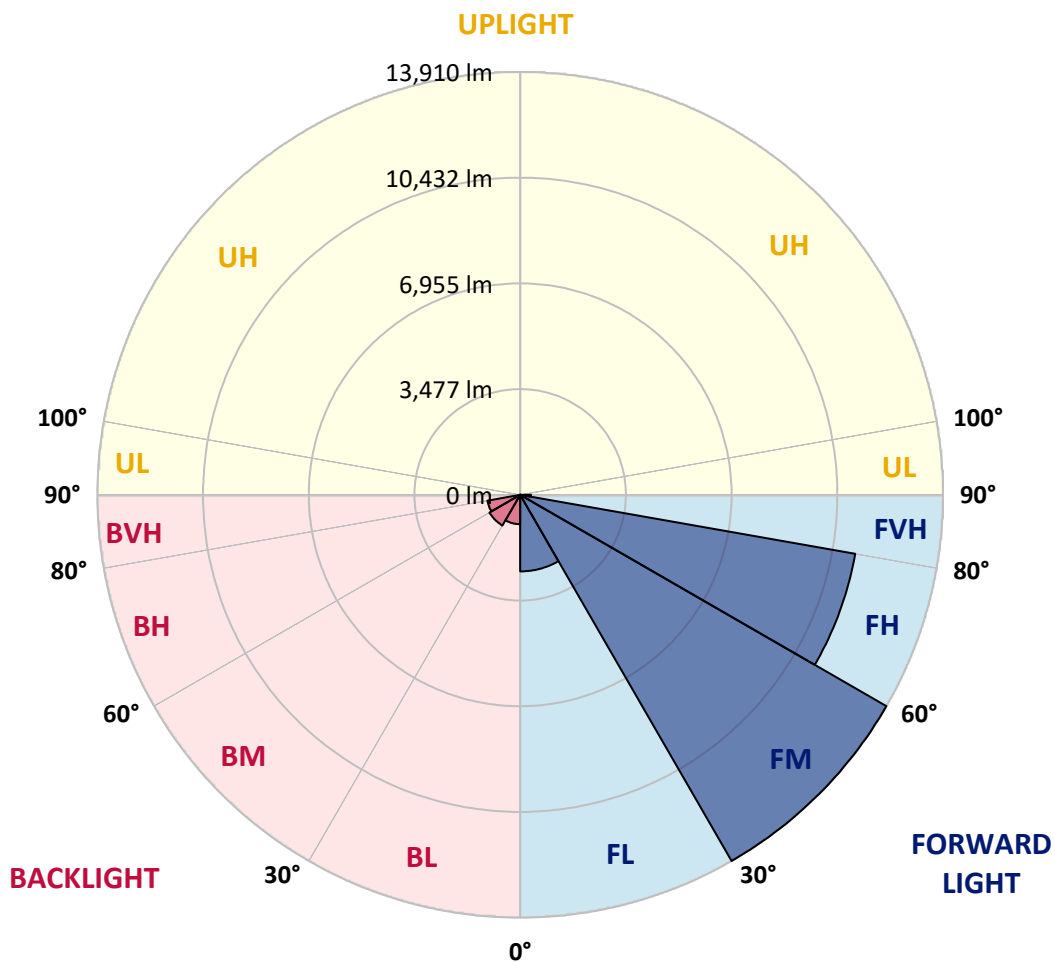
CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-8030-1200-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2518.7	8.1			
FM (30°-60°)	13909.9	44.6			
FH (60°-80°)	11191.0	35.9			G4/12000
FVH (80°-90°)	355.2	1.1			G3/500
BL (0°-30°)	967.2	3.1	B2/1000		
BM (30°-60°)	1164.9	3.7	B2/2500		
BH (60°-80°)	1092.4	3.5	B3/2500		G3/2500
BVH (80°-90°)	16.7	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-G4

Type II Short





REPORT NUMBER: P193605

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-8030-1200-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6884.3	6884.3	6884.3	6884.3	6884.3	6884.3	6884.3	6884.3	6884.3	6884.3	6884.3
2.5°	7117.3	7131.9	7130.1	7141.0	7166.5	7168.3	7142.8	7093.7	7082.7	7019.0	6908.0
5°	6563.8	6605.7	6631.2	6735.0	6851.5	6991.7	7097.3	7135.5	7130.1	7084.6	6917.1
7.5°	5932.0	5973.9	6003.0	6125.0	6279.8	6520.1	6795.1	7020.8	7040.9	7090.0	6909.8
10°	5511.4	5518.7	5558.8	5675.3	5837.3	6083.1	6410.9	6806.0	6866.1	7046.3	6891.6
12.5°	5165.5	5170.9	5223.8	5349.4	5522.4	5770.0	6114.1	6571.1	6664.0	6991.7	6887.9
15°	4919.7	4939.7	4987.1	5118.1	5302.0	5547.8	5901.1	6398.1	6509.2	6971.7	6920.7
17.5°	4837.8	4859.6	4874.2	4968.8	5136.4	5376.7	5739.0	6285.3	6410.9	6982.6	6984.4
20°	4923.3	4939.7	4906.9	4930.6	5034.4	5249.2	5602.5	6188.8	6338.1	6995.3	7066.4
22.5°	5242.0	5249.2	5160.0	5056.2	5038.0	5156.4	5495.0	6112.3	6272.5	7029.9	7162.9
25°	5788.2	5775.4	5629.8	5405.8	5194.6	5140.0	5431.3	6064.9	6239.7	7066.4	7263.0
27.5°	6447.3	6465.5	6265.2	5939.3	5536.9	5249.2	5422.2	6044.9	6225.2	7091.8	7350.4
30°	7248.4	7273.9	7044.5	6634.8	6057.7	5518.7	5506.0	6041.3	6216.1	7075.5	7357.7
32.5°	8066.0	8096.9	7916.6	7494.2	6753.2	5970.3	5695.3	6081.3	6234.3	7019.0	7315.8
35°	8921.7	8965.4	8845.2	8482.9	7696.3	6622.1	6028.5	6203.3	6319.8	7013.6	7273.9
37.5°	10103.4	10143.4	9917.7	9533.5	8838.0	7496.1	6563.8	6432.7	6522.0	7101.0	7284.8
40°	11867.7	11862.2	11279.6	10691.5	10092.5	8606.7	7315.8	6847.9	6893.4	7365.0	7419.6
42.5°	13790.4	13781.3	12920.1	12026.1	11485.3	9974.1	8304.5	7565.2	7534.3	7851.1	7769.2
45°	15272.5	15270.7	14567.9	13561.0	13162.2	11543.6	9582.6	8563.0	8515.7	8641.3	8413.7
47.5°	15904.3	15915.2	15562.0	14853.7	15021.2	13666.6	11194.0	10008.7	9937.7	9886.7	9540.8
50°	15412.7	15434.6	15463.7	15325.3	16385.0	16519.7	13355.2	12046.1	12011.5	11783.9	11243.2
52.5°	13806.8	13917.9	14260.2	14699.0	16858.4	19258.1	16743.7	14577.0	14391.3	14149.1	13553.7
55°	11101.2	11223.1	11873.2	12938.3	16153.8	21057.1	21492.2	17839.8	17530.2	16807.4	15948.0
57.5°	7346.8	7536.1	8479.3	9833.9	14107.2	21346.6	26229.8	22368.0	21290.1	19310.9	18342.3
60°	4047.5	4229.6	5252.9	6480.1	10189.0	19915.4	29416.1	28263.6	26359.1	22109.4	21250.1
62.5°	2492.6	2590.9	3346.6	4488.2	6110.5	15718.6	30075.3	35672.3	33467.3	25712.7	24762.3
65°	1984.6	2026.5	2396.1	3668.8	4380.7	9349.6	27946.8	41320.3	40584.7	30075.3	27906.7
67°	1926.4	1942.7	2117.5	3149.9	4129.5	5731.7	23413.1	42239.7	42986.2	32715.4	28005.1
67.5°	1939.1	1957.3	2123.0	3006.1	4122.2	5267.4	21850.9	41877.4	42820.6	32924.7	27569.9
70°	1869.9	1926.4	2430.7	3004.2	3920.1	4377.1	13085.8	36284.0	37265.4	30592.4	23393.1
72.5°	662.8	666.4	1050.6	2430.7	4262.4	4424.4	6571.1	26599.4	27325.9	23402.2	16865.7
75°	393.3	335.0	349.6	691.9	4073.0	4297.0	3790.8	16996.8	17268.1	13409.9	8541.2
77.5°	271.3	236.7	244.0	305.9	1551.3	4236.9	3011.5	8863.4	8573.9	4703.0	1818.9
80°	154.8	136.6	145.7	267.7	564.4	3952.9	2840.4	3594.2	3064.3	797.5	502.5
82.5°	81.9	69.2	83.8	220.3	393.3	2463.5	2845.8	1737.0	1376.5	269.5	342.3
85°	29.1	23.7	40.1	151.1	262.2	755.6	2638.3	1460.2	1147.1	131.1	260.4
87.5°	5.5	5.5	16.4	61.9	105.6	231.2	1560.4	866.7	580.8	78.3	178.4
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: P193605

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-8030-1200-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6884.3	6884.3	6884.3	6884.3	6884.3	6884.3	6884.3	6884.3	6884.3	6884.3	6884.3
2.5°	6862.4	6784.1	6678.5	6549.3	6396.3	6261.6	6161.4	6057.7	6035.8	5999.4	5993.9
5°	6816.9	6682.2	6420.0	6119.6	5799.1	5509.6	5274.7	5065.3	4972.5	4892.4	4883.3
7.5°	6749.5	6547.4	6101.4	5617.0	5116.3	4661.1	4275.1	4002.0	3750.8	3630.6	3612.4
10°	6671.3	6381.8	5742.7	5070.8	4378.9	3736.2	3162.7	2682.0	2390.7	2217.7	2195.8
12.5°	6598.4	6219.7	5376.7	4504.6	3585.1	2725.7	1988.3	1529.4	1223.5	1099.7	1085.2
15°	6563.8	6088.6	5034.4	3925.6	2754.8	1735.2	1087.0	841.2	741.0	711.9	710.1
17.5°	6560.2	5977.5	4699.4	3326.5	1930.0	1008.7	708.3	646.4	626.3	619.1	619.1
20°	6558.4	5871.9	4364.4	2705.6	1225.4	671.9	589.9	575.4	560.8	551.7	551.7
22.5°	6578.4	5777.3	4014.8	2072.0	772.0	544.4	518.9	504.3	486.1	473.4	471.6
25°	6598.4	5704.4	3657.9	1474.8	559.0	473.4	447.9	427.9	402.4	386.0	384.2
27.5°	6602.1	5613.4	3275.5	986.9	467.9	413.3	380.5	349.6	320.5	304.1	302.2
30°	6547.4	5460.4	2851.3	666.4	413.3	358.7	315.0	282.2	254.9	242.2	242.2
32.5°	6440.0	5271.1	2385.2	502.5	367.8	307.7	260.4	229.4	211.2	205.7	203.9
35°	6343.5	5067.2	1906.3	426.1	329.6	260.4	213.0	193.0	182.1	180.3	178.4
37.5°	6287.1	4903.3	1456.6	386.0	293.1	218.5	180.3	165.7	160.2	156.6	158.4
40°	6330.8	4766.7	1076.1	353.2	256.7	182.1	152.9	145.7	140.2	138.4	138.4
42.5°	6522.0	4743.1	799.3	324.1	222.1	151.1	132.9	127.5	123.8	122.0	123.8
45°	7024.5	4888.7	620.9	296.8	187.5	127.5	112.9	111.1	109.2	109.2	109.2
47.5°	7780.1	5189.2	517.1	265.8	156.6	109.2	98.3	96.5	94.7	96.5	96.5
50°	9060.1	5739.0	462.5	234.9	129.3	92.9	83.8	83.8	83.8	83.8	85.6
52.5°	11006.5	6820.6	426.1	203.9	105.6	78.3	71.0	71.0	72.8	72.8	74.7
55°	13175.0	8255.3	393.3	173.0	89.2	65.5	58.3	60.1	61.9	63.7	63.7
57.5°	15527.4	9844.8	366.0	142.0	76.5	52.8	49.2	51.0	52.8	56.4	56.4
60°	18366.0	11565.4	325.9	111.1	63.7	41.9	38.2	41.9	47.3	51.0	52.8
62.5°	21483.1	13229.6	274.9	87.4	52.8	32.8	31.0	38.2	45.5	49.2	51.0
65°	23613.4	13752.2	211.2	71.0	40.1	23.7	25.5	34.6	43.7	49.2	49.2
67°	22750.4	12468.5	173.0	60.1	32.8	18.2	23.7	34.6	43.7	47.3	49.2
67.5°	22151.3	11966.0	165.7	58.3	31.0	18.2	23.7	34.6	43.7	49.2	49.2
70°	18023.7	8989.1	138.4	43.7	25.5	16.4	20.0	32.8	41.9	47.3	47.3
72.5°	12523.2	5542.4	123.8	31.0	21.8	14.6	18.2	31.0	40.1	45.5	47.3
75°	5953.9	2006.5	105.6	23.7	20.0	12.7	16.4	31.0	40.1	45.5	45.5
77.5°	1214.4	466.1	85.6	20.0	16.4	12.7	14.6	29.1	38.2	43.7	43.7
80°	398.7	180.3	63.7	18.2	16.4	12.7	14.6	27.3	38.2	41.9	43.7
82.5°	287.7	91.0	41.9	18.2	16.4	12.7	12.7	27.3	36.4	41.9	41.9
85°	220.3	63.7	27.3	18.2	16.4	12.7	12.7	25.5	34.6	40.1	40.1
87.5°	145.7	25.5	21.8	18.2	16.4	12.7	12.7	25.5	32.8	38.2	40.1
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)