

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: P193606

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193606
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-SL2-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 35370 lumens
Efficiency: N/A
Efficacy: 69.2 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): 511
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

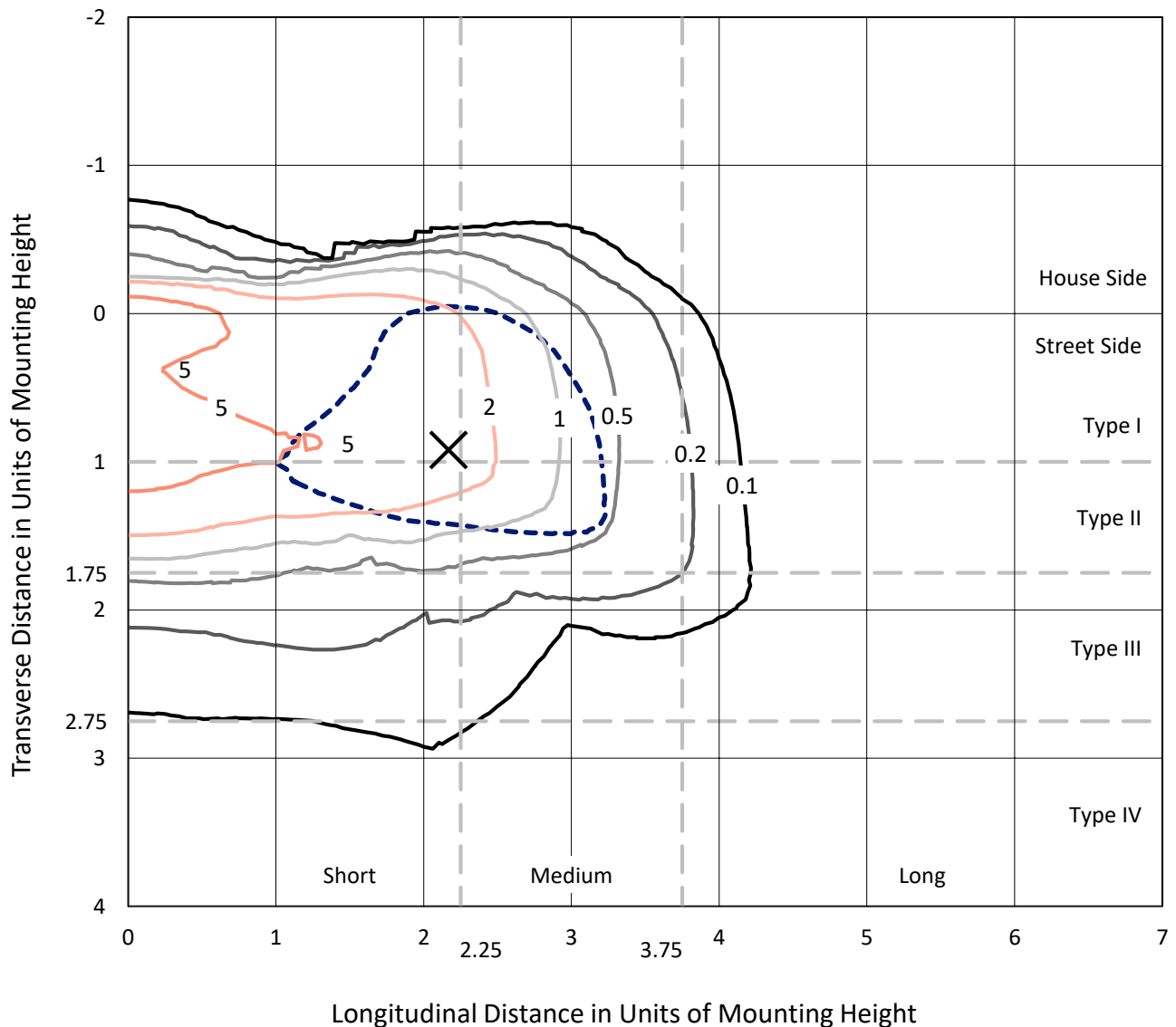


REPORT NUMBER: P193606

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-8030-1200-HSS

Iso-Footcandle Lines of Horizontal Illumination

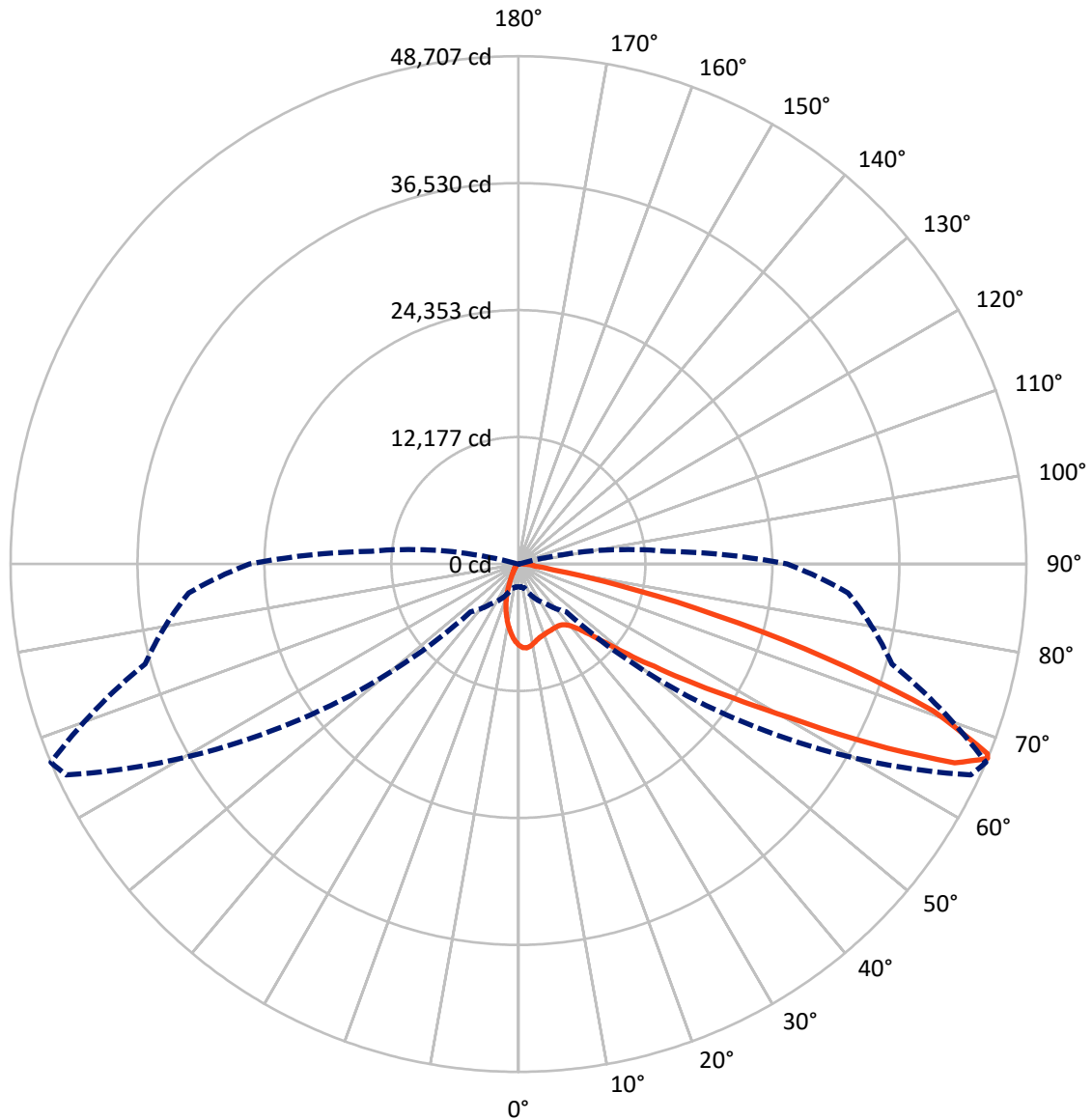
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P193606
CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-8030-1200-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193606

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-8030-1200-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3672.5	0.0	3672.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	31697.5	0.0	31697.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	35370.0	0.0	35370.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.7	1.8
10°-20°	1350.9	3.8
20°-30°	1964.1	5.6
30°-40°	3064.0	8.7
40°-50°	5427.8	15.3
50°-60°	8589.0	24.3
60°-70°	9837.5	27.8
70°-80°	4080.5	11.5
80°-90°	421.5	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°	35370.0	100.0
0°-180°	35370.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193606

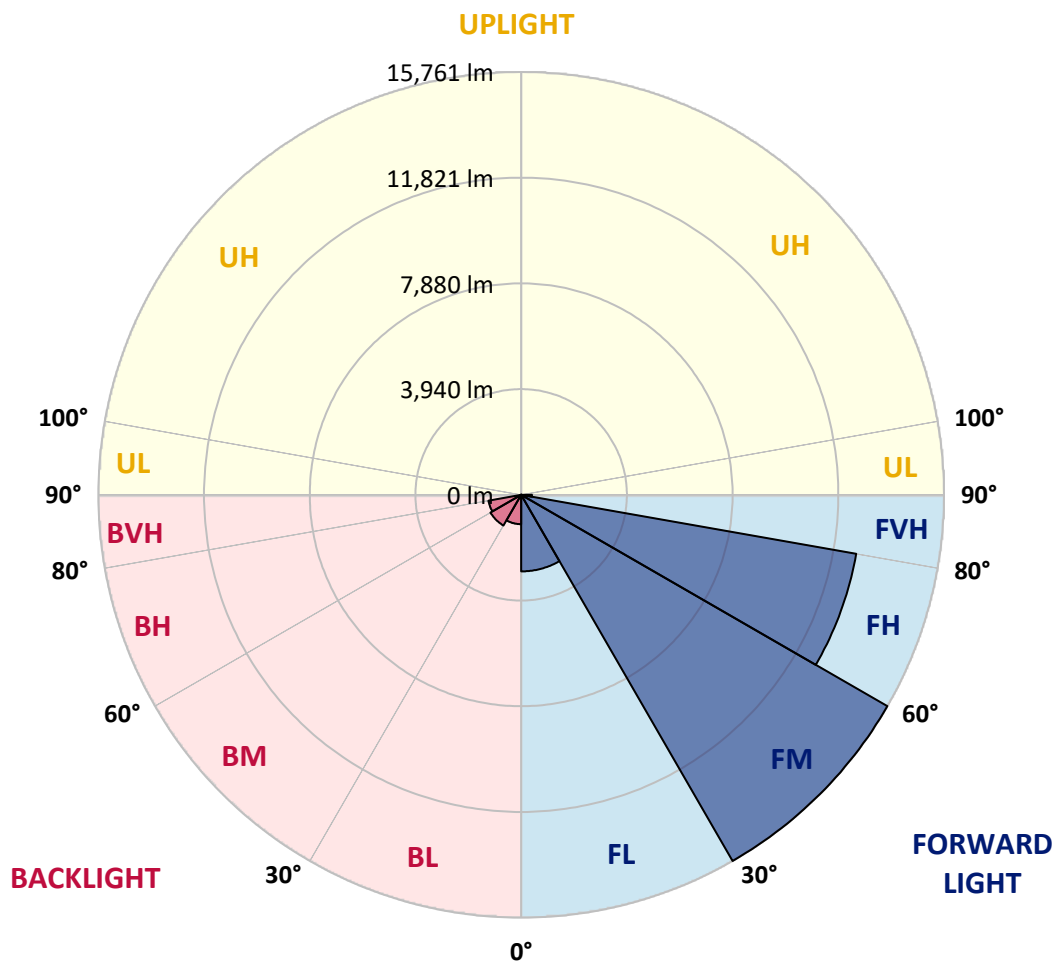
CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-8030-1200-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2853.8	8.1			
FM (30°-60°)	15761.0	44.6			
FH (60°-80°)	12680.2	35.9			G5
FVH (80°-90°)	402.5	1.1			G3/500
BL (0°-30°)	1095.9	3.1	B3/2500		
BM (30°-60°)	1319.9	3.7	B2/2500		
BH (60°-80°)	1237.8	3.5	B3/2500		G3/2500
BVH (80°-90°)	19.0	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: P193606

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-8030-1200-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4
2.5°	8064.5	8081.0	8078.9	8091.3	8120.2	8122.2	8093.3	8037.6	8025.3	7953.1	7827.2
5°	7437.3	7484.7	7513.6	7631.2	7763.3	7922.1	8041.8	8085.1	8078.9	8027.3	7837.5
7.5°	6721.4	6768.9	6801.9	6940.1	7115.5	7387.8	7699.3	7955.1	7977.8	8033.5	7829.3
10°	6244.9	6253.1	6298.5	6430.5	6614.1	6892.6	7264.0	7711.7	7779.8	7984.0	7808.6
12.5°	5852.9	5859.1	5918.9	6061.2	6257.2	6537.8	6927.7	7445.5	7550.8	7922.1	7804.5
15°	5574.4	5597.1	5650.7	5799.2	6007.6	6286.1	6686.3	7249.6	7375.4	7899.4	7841.7
17.5°	5481.5	5506.3	5522.8	5630.1	5819.9	6092.2	6502.7	7121.6	7264.0	7911.8	7913.9
20°	5578.5	5597.1	5559.9	5586.7	5704.3	5947.8	6348.0	7012.3	7181.5	7926.2	8006.7
22.5°	5939.5	5947.8	5846.7	5729.1	5708.5	5842.6	6226.3	6925.7	7107.2	7965.4	8116.0
25°	6558.4	6544.0	6378.9	6125.2	5885.9	5824.0	6154.1	6872.0	7070.1	8006.7	8229.5
27.5°	7305.3	7325.9	7099.0	6729.7	6273.7	5947.8	6143.8	6849.3	7053.6	8035.6	8328.5
30°	8213.0	8241.9	7981.9	7517.8	6863.8	6253.1	6238.7	6845.2	7043.3	8017.0	8336.8
32.5°	9139.3	9174.4	8970.1	8491.5	7651.9	6764.7	6453.2	6890.6	7063.9	7953.1	8289.3
35°	10108.9	10158.5	10022.3	9611.7	8720.5	7503.3	6830.8	7028.8	7160.8	7946.9	8241.9
37.5°	11447.9	11493.3	11237.4	10802.1	10014.0	8493.6	7437.3	7288.8	7389.8	8045.9	8254.3
40°	13447.0	13440.8	12780.6	12114.2	11435.5	9752.0	8289.3	7759.1	7810.7	8345.0	8406.9
42.5°	15625.5	15615.2	14639.4	13626.4	13013.7	11301.4	9409.6	8572.0	8536.9	8895.9	8803.0
45°	17304.9	17302.8	16506.5	15365.6	14913.8	13079.7	10857.8	9702.5	9648.9	9791.2	9533.4
47.5°	18020.7	18033.1	17632.9	16830.4	17020.2	15485.3	12683.6	11340.6	11260.1	11202.4	10810.4
50°	17463.7	17488.5	17521.5	17364.7	18565.4	18718.1	15132.5	13649.1	13609.9	13352.1	12739.3
52.5°	15644.1	15770.0	16157.8	16655.0	19101.8	21820.9	18971.8	16516.8	16306.3	16032.0	15357.3
55°	12578.4	12716.6	13453.1	14660.0	18303.4	23859.2	24352.2	20213.8	19863.0	19044.0	18070.3
57.5°	8324.4	8539.0	9607.6	11142.5	15984.5	24187.2	29720.3	25344.6	24123.2	21880.7	20783.2
60°	4586.2	4792.5	5951.9	7342.4	11544.8	22565.6	33330.6	32024.7	29866.8	25051.6	24077.9
62.5°	2824.3	2935.7	3791.9	5085.4	6923.6	17810.3	34077.5	40419.3	37920.9	29134.4	28057.5
65°	2248.7	2296.2	2715.0	4157.0	4963.7	10593.8	31665.8	46818.9	45985.4	34077.5	31620.4
67°	2182.7	2201.3	2399.3	3569.1	4679.0	6494.5	26528.8	47860.7	48706.5	37068.9	31731.8
67.5°	2197.1	2217.8	2405.5	3406.1	4670.7	5968.4	24758.7	47450.1	48518.8	37306.1	31238.7
70°	2118.8	2182.7	2754.2	3404.0	4441.7	4959.6	14827.1	41112.5	42224.4	34663.4	26506.1
72.5°	751.0	755.1	1190.4	2754.2	4829.6	5013.2	7445.5	30139.1	30962.3	26516.4	19110.0
75°	445.6	379.6	396.1	784.0	4615.0	4868.8	4295.3	19258.6	19566.0	15194.4	9677.8
77.5°	307.4	268.2	276.4	346.6	1757.7	4800.7	3412.3	10042.9	9714.9	5328.9	2061.0
80°	175.4	154.7	165.0	303.3	639.5	4478.9	3218.4	4072.5	3472.1	903.6	569.4
82.5°	92.8	78.4	94.9	249.6	445.6	2791.3	3224.5	1968.1	1559.7	305.3	387.9
85°	33.0	26.8	45.4	171.2	297.1	856.2	2989.4	1654.6	1299.7	148.5	295.0
87.5°	6.2	6.2	18.6	70.1	119.7	262.0	1768.0	982.0	658.1	88.7	202.2
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: P193606

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-8030-1200-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4	7800.4
2.5°	7775.6	7686.9	7567.3	7420.8	7247.5	7094.8	6981.4	6863.8	6839.0	6797.7	6791.6
5°	7724.1	7571.4	7274.3	6933.9	6570.8	6242.8	5976.7	5739.4	5634.2	5543.4	5533.1
7.5°	7647.7	7418.7	6913.3	6364.5	5797.2	5281.4	4844.0	4534.6	4249.9	4113.7	4093.1
10°	7559.0	7231.0	6506.9	5745.6	4961.6	4233.4	3583.5	3038.9	2708.8	2512.8	2488.0
12.5°	7476.5	7047.4	6092.2	5104.0	4062.1	3088.4	2252.9	1733.0	1386.4	1246.1	1229.6
15°	7437.3	6898.8	5704.3	4447.9	3121.4	1966.1	1231.6	953.1	839.7	806.7	804.6
17.5°	7433.2	6773.0	5324.7	3769.2	2186.8	1142.9	802.5	732.4	709.7	701.4	701.4
20°	7431.1	6653.3	4945.1	3065.7	1388.4	761.3	668.4	651.9	635.4	625.1	625.1
22.5°	7453.8	6546.1	4549.0	2347.8	874.7	616.9	588.0	571.5	550.8	536.4	534.3
25°	7476.5	6463.5	4144.7	1671.1	633.4	536.4	507.5	484.8	455.9	437.4	435.3
27.5°	7480.6	6360.4	3711.4	1118.2	530.2	468.3	431.2	396.1	363.1	344.5	342.5
30°	7418.7	6187.1	3230.7	755.1	468.3	406.4	356.9	319.8	288.8	274.4	274.4
32.5°	7297.0	5972.5	2702.6	569.4	416.7	348.7	295.0	259.9	239.3	233.1	231.1
35°	7187.7	5741.5	2160.0	482.8	373.4	295.0	241.4	218.7	206.3	204.2	202.2
37.5°	7123.7	5555.8	1650.4	437.4	332.2	247.6	204.2	187.7	181.5	177.4	179.5
40°	7173.2	5401.1	1219.3	400.2	290.9	206.3	173.3	165.0	158.9	156.8	156.8
42.5°	7389.8	5374.2	905.7	367.2	251.7	171.2	150.6	144.4	140.3	138.2	140.3
45°	7959.2	5539.3	703.5	336.3	212.5	144.4	127.9	125.8	123.8	123.8	123.8
47.5°	8815.4	5879.7	585.9	301.2	177.4	123.8	111.4	109.3	107.3	109.3	109.3
50°	10265.7	6502.7	524.0	266.1	146.5	105.2	94.9	94.9	94.9	94.9	97.0
52.5°	12471.1	7728.2	482.8	231.1	119.7	88.7	80.5	80.5	82.5	82.5	84.6
55°	14928.2	9353.9	445.6	196.0	101.1	74.3	66.0	68.1	70.1	72.2	72.2
57.5°	17593.7	11154.9	414.7	160.9	86.6	59.8	55.7	57.8	59.8	64.0	64.0
60°	20810.0	13104.5	369.3	125.8	72.2	47.5	43.3	47.5	53.6	57.8	59.8
62.5°	24341.9	14990.1	311.5	99.0	59.8	37.1	35.1	43.3	51.6	55.7	57.8
65°	26755.7	15582.2	239.3	80.5	45.4	26.8	28.9	39.2	49.5	55.7	55.7
67°	25777.8	14127.8	196.0	68.1	37.1	20.6	26.8	39.2	49.5	53.6	55.7
67.5°	25099.1	13558.4	187.7	66.0	35.1	20.6	26.8	39.2	49.5	55.7	55.7
70°	20422.1	10185.3	156.8	49.5	28.9	18.6	22.7	37.1	47.5	53.6	53.6
72.5°	14189.7	6279.9	140.3	35.1	24.8	16.5	20.6	35.1	45.4	51.6	53.6
75°	6746.2	2273.5	119.7	26.8	22.7	14.4	18.6	35.1	45.4	51.6	51.6
77.5°	1376.1	528.1	97.0	22.7	18.6	14.4	16.5	33.0	43.3	49.5	49.5
80°	451.8	204.2	72.2	20.6	18.6	14.4	16.5	30.9	43.3	47.5	49.5
82.5°	326.0	103.2	47.5	20.6	18.6	14.4	14.4	30.9	41.3	47.5	47.5
85°	249.6	72.2	30.9	20.6	18.6	14.4	14.4	28.9	39.2	45.4	45.4
87.5°	165.0	28.9	24.8	20.6	18.6	14.4	14.4	28.9	37.1	43.3	45.4
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)