

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: P191055

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191055
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 35673.3 lumens
Efficiency: N/A
Efficacy: 91.2 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

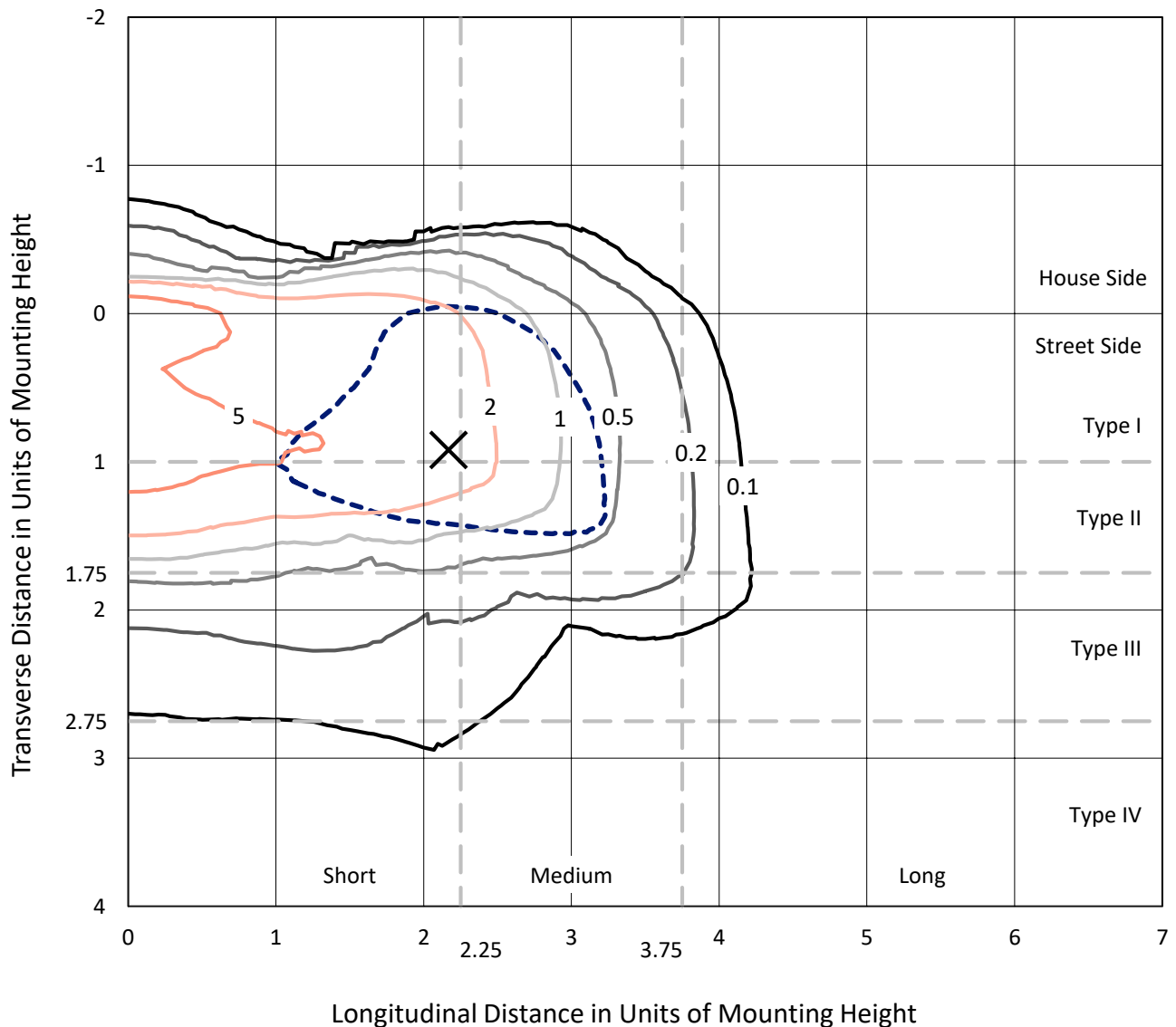


REPORT NUMBER: P191055

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

Iso-Footcandle Lines of Horizontal Illumination

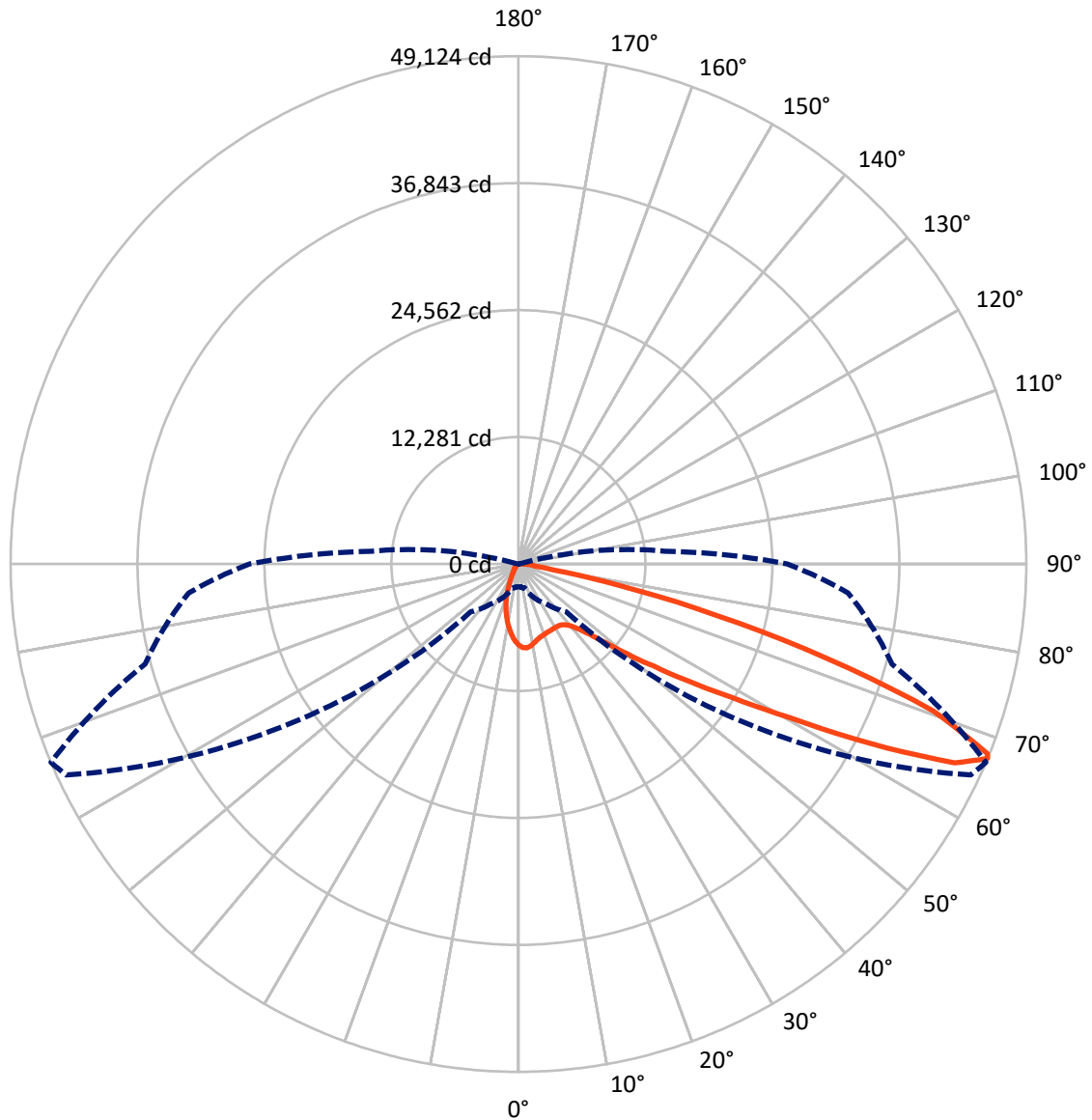
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P191055
CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191055

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

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3704.0	0.0	3704.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	31969.4	0.0	31969.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	35673.3	0.0	35673.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.2	1.8
10°-20°	1362.5	3.8
20°-30°	1980.9	5.6
30°-40°	3090.3	8.7
40°-50°	5474.4	15.3
50°-60°	8662.6	24.3
60°-70°	9921.8	27.8
70°-80°	4115.5	11.5
80°-90°	425.1	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°	35673.3	100.0
0°-180°	35673.3	100.0



REPORT NUMBER: P191055

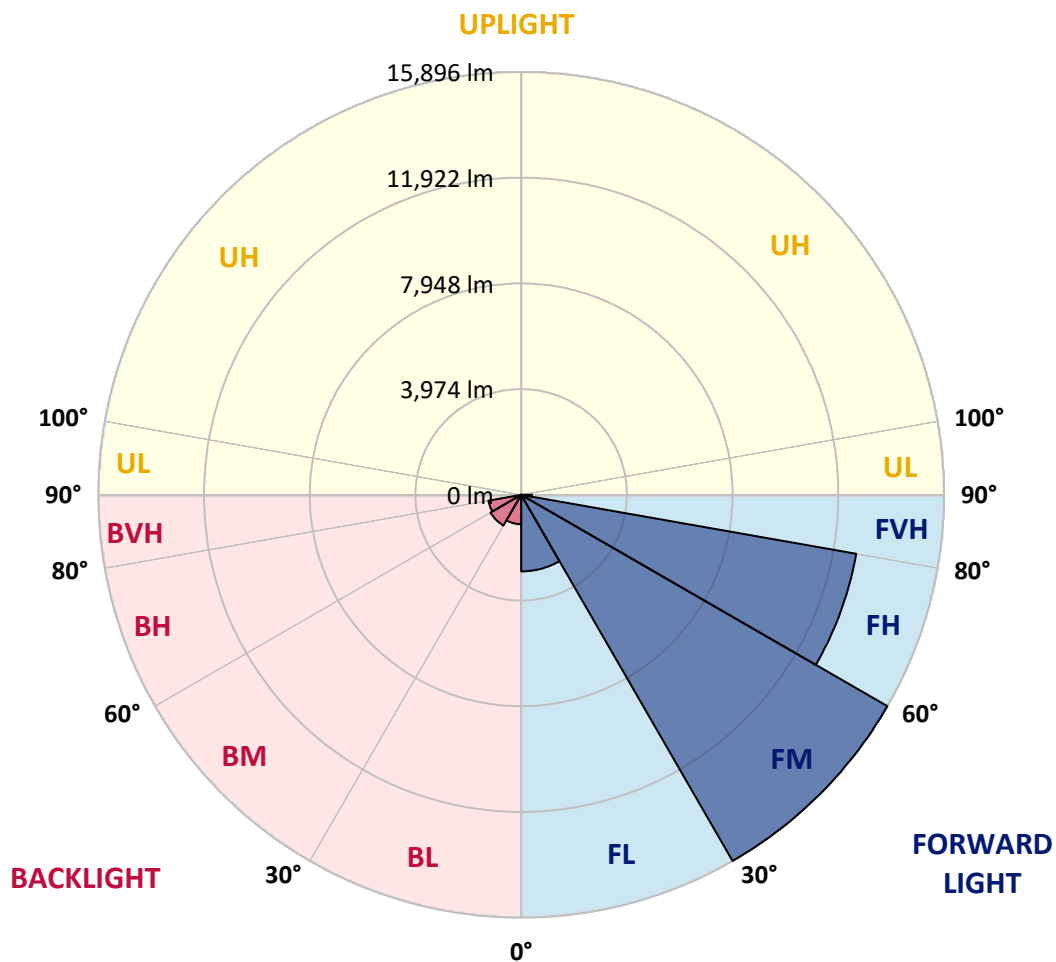
CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2878.3	8.1			
FM (30°-60°)	15896.1	44.6			
FH (60°-80°)	12789.0	35.9			G5
FVH (80°-90°)	406.0	1.1			G3/500
BL (0°-30°)	1105.3	3.1	B3/2500		
BM (30°-60°)	1331.2	3.7	B2/2500		
BH (60°-80°)	1248.4	3.5	B3/2500		G3/2500
BVH (80°-90°)	19.1	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: P191055

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7867.3	7867.3	7867.3	7867.3	7867.3	7867.3	7867.3	7867.3	7867.3	7867.3	7867.3
2.5°	8133.6	8150.3	8148.2	8160.7	8189.8	8191.9	8162.7	8106.6	8094.1	8021.3	7894.3
5°	7501.1	7549.0	7578.0	7696.7	7829.9	7990.1	8110.8	8154.5	8148.2	8096.1	7904.8
7.5°	6779.1	6827.0	6860.2	6999.6	7176.5	7451.2	7765.3	8023.3	8046.2	8102.4	7896.5
10°	6298.4	6306.7	6352.5	6485.7	6670.9	6951.8	7326.3	7777.8	7846.4	8052.5	7875.6
12.5°	5903.0	5909.3	5969.6	6113.3	6310.9	6593.8	6987.2	7509.4	7615.6	7990.1	7871.5
15°	5622.1	5645.1	5699.2	5848.9	6059.1	6340.0	6743.7	7311.7	7438.7	7967.2	7908.9
17.5°	5528.5	5553.5	5570.2	5678.4	5869.8	6144.5	6558.5	7182.8	7326.3	7979.6	7981.8
20°	5626.3	5645.1	5607.6	5634.6	5753.3	5998.8	6402.4	7072.5	7243.1	7994.3	8075.4
22.5°	5990.5	5998.8	5896.8	5778.2	5757.4	5892.7	6279.7	6985.0	7168.1	8033.7	8185.7
25°	6614.7	6600.1	6433.6	6177.7	5936.4	5874.0	6206.9	6931.0	7130.7	8075.4	8300.1
27.5°	7367.9	7388.8	7159.8	6787.4	6327.6	5998.8	6196.4	6908.1	7114.1	8104.5	8400.0
30°	8283.4	8312.6	8050.4	7582.2	6922.6	6306.7	6292.2	6903.9	7103.7	8085.8	8408.2
32.5°	9217.7	9253.1	9047.1	8564.3	7717.4	6822.8	6508.5	6949.7	7124.4	8021.3	8360.5
35°	10195.6	10245.6	10108.3	9694.2	8795.3	7567.7	6889.4	7089.0	7222.2	8015.0	8312.6
37.5°	11546.0	11591.9	11333.8	10894.7	10099.9	8566.4	7501.1	7351.2	7453.2	8114.9	8325.1
40°	13562.3	13556.0	12890.2	12218.1	11533.6	9835.7	8360.5	7825.7	7877.7	8416.6	8479.0
42.5°	15759.6	15749.1	14765.0	13743.3	13125.4	11398.3	9490.3	8645.5	8610.1	8972.2	8878.5
45°	17453.3	17451.2	16648.0	15497.4	15041.7	13191.9	10951.0	9785.8	9731.6	9875.3	9615.1
47.5°	18175.3	18187.8	17784.1	16974.7	17166.1	15618.1	12792.4	11437.8	11356.7	11298.5	10903.1
50°	17613.5	17638.4	17671.8	17513.6	18724.6	18878.6	15262.2	13766.2	13726.7	13466.5	12848.6
52.5°	15778.3	15905.2	16296.4	16797.9	19265.6	22008.1	19134.5	16658.4	16446.2	16169.5	15489.0
55°	12686.3	12825.8	13568.5	14785.7	18460.4	24063.8	24561.2	20387.1	20033.4	19207.3	18225.2
57.5°	8395.8	8612.2	9690.0	11238.1	16121.6	24394.6	29975.2	25561.9	24330.2	22068.4	20961.4
60°	4625.5	4833.5	6003.0	7405.3	11643.8	22759.2	33616.5	32299.4	30122.9	25266.5	24284.3
62.5°	2848.5	2960.9	3824.4	5129.1	6983.0	17963.0	34369.7	40765.9	38246.2	29384.3	28298.1
65°	2268.0	2315.9	2738.2	4192.7	5006.3	10684.6	31937.3	47220.4	46379.8	34369.7	31891.6
67°	2201.4	2220.1	2419.9	3599.7	4719.2	6550.2	26756.3	48271.2	49124.2	37386.8	32003.9
67.5°	2216.0	2236.8	2426.1	3435.3	4710.8	6019.6	24971.0	47857.1	48934.9	37626.1	31506.7
70°	2136.9	2201.4	2777.8	3433.2	4479.8	5002.1	14954.3	41465.1	42586.6	34960.7	26733.4
72.5°	757.4	761.6	1200.6	2777.8	4871.0	5056.2	7509.4	30397.6	31227.8	26743.8	19273.9
75°	449.5	382.9	399.5	790.6	4654.6	4910.6	4332.1	19423.8	19733.7	15324.7	9760.8
77.5°	310.1	270.5	278.9	349.5	1772.8	4841.9	3441.5	10129.1	9798.2	5374.6	2078.6
80°	176.9	156.1	166.4	305.9	645.1	4517.2	3245.9	4107.4	3501.9	911.3	574.3
82.5°	93.6	79.1	95.7	251.7	449.5	2815.3	3252.2	1985.0	1573.1	307.9	391.2
85°	33.2	27.0	45.7	172.7	299.6	863.5	3015.0	1668.7	1310.9	149.9	297.6
87.5°	6.2	6.2	18.7	70.8	120.7	264.2	1783.2	990.4	663.8	89.5	203.9
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: P191055

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7867.3	7867.3	7867.3	7867.3	7867.3	7867.3	7867.3	7867.3	7867.3	7867.3	7867.3
2.5°	7842.4	7752.8	7632.1	7484.4	7309.7	7155.6	7041.3	6922.6	6897.7	6856.0	6849.8
5°	7790.3	7636.3	7336.7	6993.4	6627.2	6296.4	6027.9	5788.7	5682.5	5590.9	5580.6
7.5°	7713.4	7482.4	6972.5	6419.1	5846.9	5326.7	4885.6	4573.5	4286.4	4149.0	4128.2
10°	7623.8	7293.0	6562.6	5794.9	5004.2	4269.7	3614.3	3065.0	2732.0	2534.4	2509.4
12.5°	7540.6	7107.9	6144.5	5147.8	4097.0	3114.9	2272.2	1747.8	1398.3	1256.8	1240.1
15°	7501.1	6958.0	5753.3	4486.0	3148.1	1983.0	1242.2	961.3	846.9	813.6	811.5
17.5°	7496.9	6831.1	5370.4	3801.5	2205.6	1152.8	809.4	738.7	715.8	707.5	707.5
20°	7494.9	6710.4	4987.5	3092.0	1400.3	767.8	674.1	657.6	640.9	630.4	630.4
22.5°	7517.8	6602.2	4588.0	2367.9	882.2	622.2	593.0	576.3	555.6	541.0	538.9
25°	7540.6	6519.0	4180.2	1685.4	638.8	541.0	511.9	489.0	459.8	441.1	439.1
27.5°	7544.8	6414.9	3743.3	1127.8	534.8	472.3	434.9	399.5	366.2	347.5	345.5
30°	7482.4	6240.1	3258.4	761.6	472.3	409.9	360.0	322.5	291.3	276.7	276.7
32.5°	7359.6	6023.7	2725.8	574.3	420.3	351.7	297.6	262.2	241.4	235.1	233.0
35°	7249.3	5790.7	2178.6	486.9	376.7	297.6	243.5	220.5	208.1	206.0	203.9
37.5°	7184.8	5603.4	1664.5	441.1	335.0	249.7	206.0	189.3	183.1	178.9	181.1
40°	7234.7	5447.4	1229.7	403.7	293.4	208.1	174.8	166.4	160.2	158.1	158.1
42.5°	7453.2	5420.3	913.5	370.4	253.9	172.7	151.9	145.7	141.5	139.4	141.5
45°	8027.5	5586.8	709.5	339.2	214.3	145.7	129.0	126.9	124.8	124.8	124.8
47.5°	8891.0	5930.1	591.0	303.8	178.9	124.8	112.3	110.3	108.2	110.3	110.3
50°	10353.8	6558.5	528.6	268.4	147.7	106.1	95.7	95.7	95.7	95.7	97.8
52.5°	12578.1	7794.5	486.9	233.0	120.7	89.5	81.1	81.1	83.3	83.3	85.3
55°	15056.3	9434.1	449.5	197.6	102.0	74.9	66.6	68.6	70.8	72.8	72.8
57.5°	17744.6	11250.6	418.2	162.3	87.4	60.4	56.2	58.3	60.4	64.5	64.5
60°	20988.5	13216.9	372.5	126.9	72.8	47.9	43.7	47.9	54.1	58.3	60.4
62.5°	24550.7	15118.7	314.1	99.8	60.4	37.4	35.4	43.7	52.1	56.2	58.3
65°	26985.1	15715.9	241.4	81.1	45.7	27.0	29.2	39.5	49.9	56.2	56.2
67°	25998.9	14248.9	197.6	68.6	37.4	20.8	27.0	39.5	49.9	54.1	56.2
67.5°	25314.4	13674.6	189.3	66.6	35.4	20.8	27.0	39.5	49.9	56.2	56.2
70°	20597.3	10272.7	158.1	49.9	29.2	18.7	22.9	37.4	47.9	54.1	54.1
72.5°	14311.4	6333.8	141.5	35.4	25.0	16.7	20.8	35.4	45.7	52.1	54.1
75°	6804.1	2292.9	120.7	27.0	22.9	14.5	18.7	35.4	45.7	52.1	52.1
77.5°	1387.8	532.7	97.8	22.9	18.7	14.5	16.7	33.2	43.7	49.9	49.9
80°	455.7	206.0	72.8	20.8	18.7	14.5	16.7	31.2	43.7	47.9	49.9
82.5°	328.8	104.0	47.9	20.8	18.7	14.5	14.5	31.2	41.6	47.9	47.9
85°	251.7	72.8	31.2	20.8	18.7	14.5	14.5	29.2	39.5	45.7	45.7
87.5°	166.4	29.2	25.0	20.8	18.7	14.5	14.5	29.2	37.4	43.7	45.7
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)