

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: P191866

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191866
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-SL2-7050-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 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: 43345 lumens
Efficiency: N/A
Efficacy: 84.8 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 (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

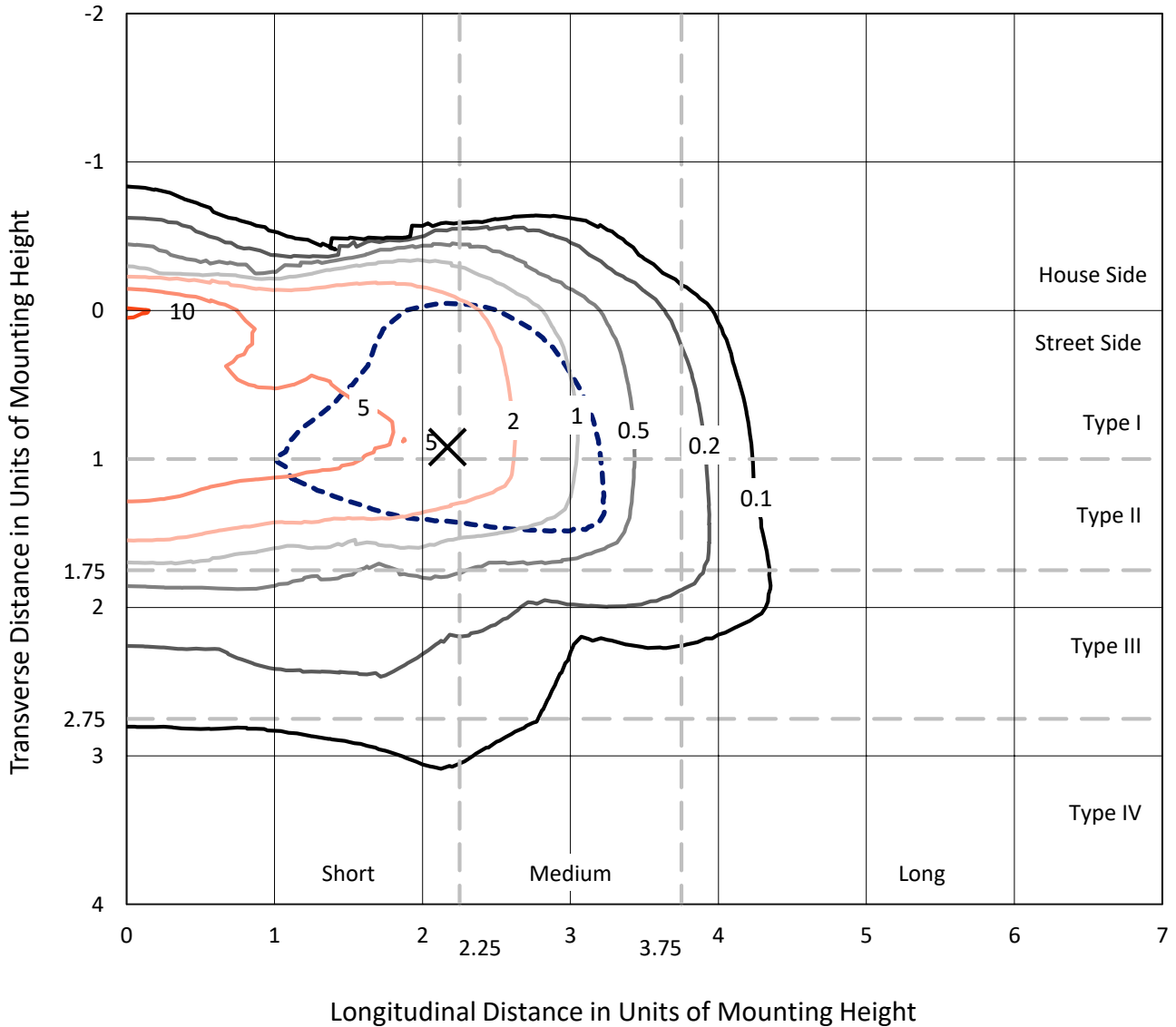


REPORT NUMBER: P191866

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7050-1200-HSS

Iso-Footcandle Lines of Horizontal Illumination

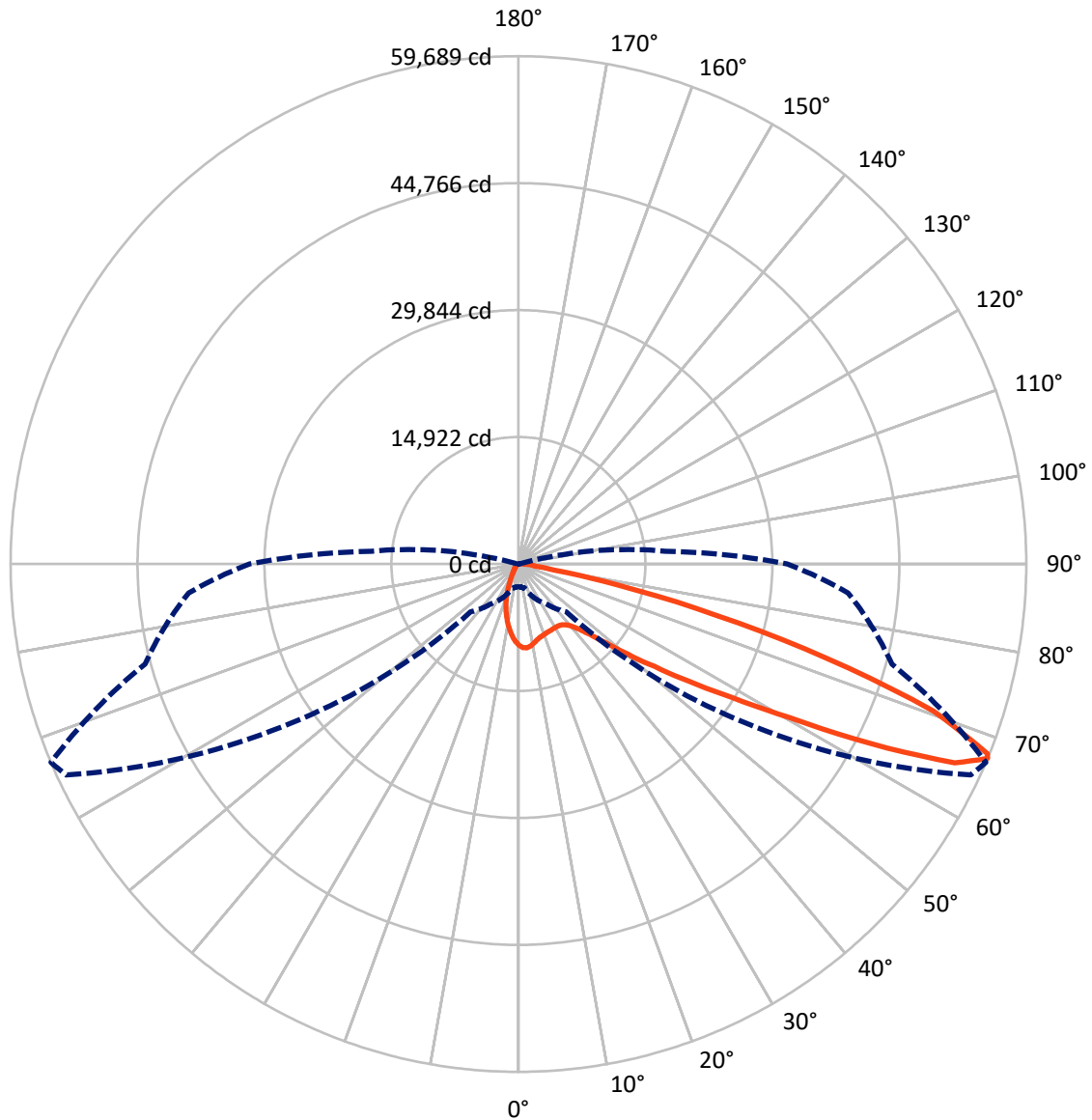
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191866
CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7050-1200-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191866

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7050-1200-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4500.5	0.0	4500.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	38844.5	0.0	38844.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	43345.0	0.0	43345.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	777.8	1.8
10°-20°	1655.5	3.8
20°-30°	2406.9	5.6
30°-40°	3754.9	8.7
40°-50°	6651.6	15.3
50°-60°	10525.6	24.3
60°-70°	12055.6	27.8
70°-80°	5000.6	11.5
80°-90°	516.5	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°	43345.0	100.0
0°-180°	43345.0	100.0



REPORT NUMBER: P191866

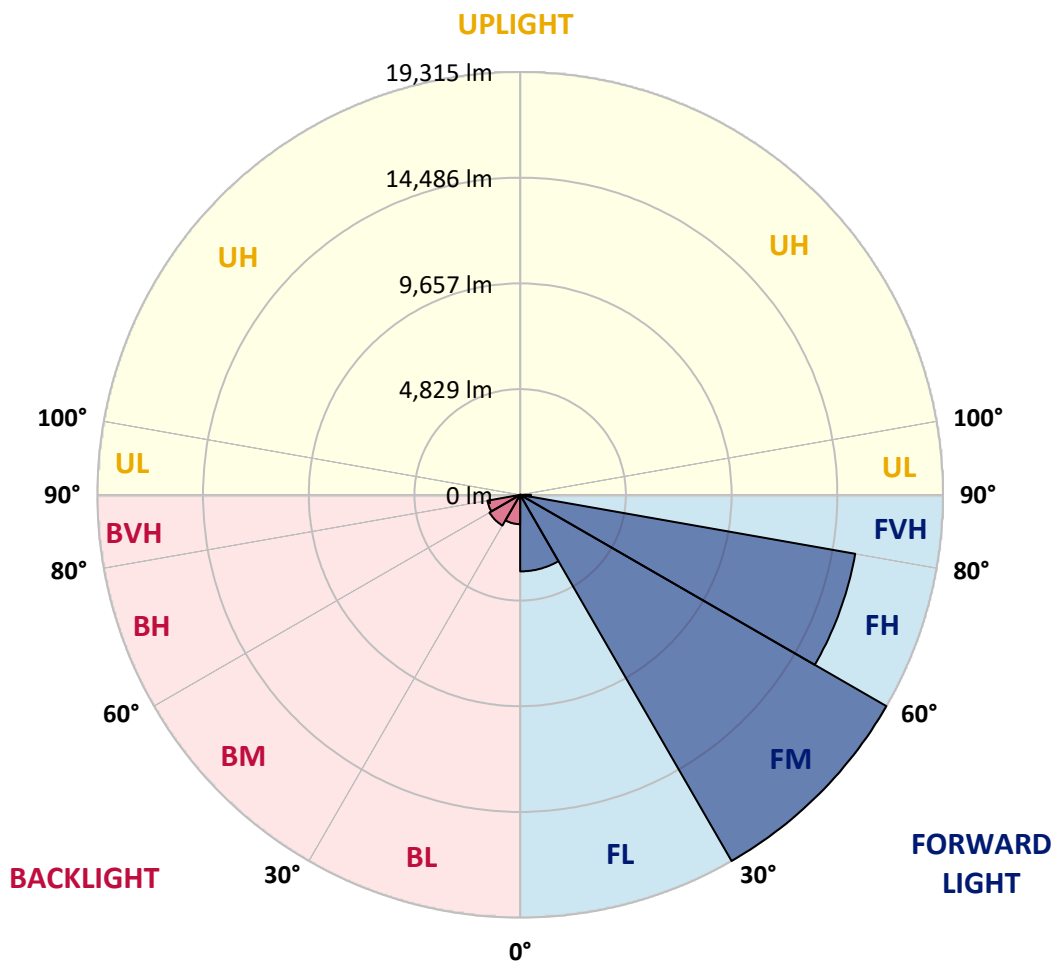
CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7050-1200-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3497.3	8.1			
FM (30°-60°)	19314.6	44.6			
FH (60°-80°)	15539.3	35.9			G5
FVH (80°-90°)	493.3	1.1			G3/500
BL (0°-30°)	1343.0	3.1	B3/2500		
BM (30°-60°)	1617.5	3.7	B2/2500		
BH (60°-80°)	1516.8	3.5	B3/2500		G3/2500
BVH (80°-90°)	23.3	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: P191866

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7050-1200-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	9559.2	9559.2	9559.2	9559.2	9559.2	9559.2	9559.2	9559.2	9559.2	9559.2	9559.2
2.5°	9882.8	9903.0	9900.5	9915.7	9951.0	9953.6	9918.2	9849.9	9834.7	9746.3	9592.0
5°	9114.2	9172.4	9207.8	9351.9	9513.7	9708.3	9855.0	9908.1	9900.5	9837.3	9604.7
7.5°	8236.9	8295.1	8335.5	8504.9	8719.8	9053.5	9435.3	9748.8	9776.6	9844.9	9594.6
10°	7652.9	7663.0	7718.6	7880.4	8105.5	8446.8	8901.8	9450.5	9533.9	9784.2	9569.3
12.5°	7172.5	7180.1	7253.4	7427.9	7668.1	8011.9	8489.7	9124.3	9253.3	9708.3	9564.2
15°	6831.2	6859.0	6924.8	7106.8	7362.2	7703.5	8193.9	8884.1	9038.4	9680.5	9609.7
17.5°	6717.5	6747.8	6768.0	6899.5	7132.1	7465.8	7968.9	8727.4	8901.8	9695.7	9698.2
20°	6836.3	6859.0	6813.5	6846.4	6990.5	7288.8	7779.3	8593.4	8800.7	9713.4	9812.0
22.5°	7278.7	7288.8	7165.0	7020.8	6995.6	7159.9	7630.1	8487.2	8709.7	9761.4	9946.0
25°	8037.2	8019.5	7817.2	7506.3	7213.0	7137.1	7541.7	8421.5	8664.2	9812.0	10085.0
27.5°	8952.4	8977.7	8699.6	8247.0	7688.3	7288.8	7529.0	8393.7	8644.0	9847.4	10206.4
30°	10064.8	10100.2	9781.7	9212.8	8411.4	7663.0	7645.3	8388.6	8631.3	9824.6	10216.5
32.5°	11200.0	11243.0	10992.7	10406.1	9377.1	8290.0	7908.3	8444.2	8656.6	9746.3	10158.4
35°	12388.2	12448.9	12282.1	11778.9	10686.8	9195.1	8370.9	8613.6	8775.4	9738.7	10100.2
37.5°	14029.1	14084.7	13771.2	13237.7	12271.9	10408.7	9114.2	8932.2	9056.1	9860.0	10115.4
40°	16478.9	16471.3	15662.3	14845.7	14013.9	11950.9	10158.4	9508.6	9571.8	10226.6	10302.5
42.5°	19148.7	19136.0	17940.2	16698.8	15948.0	13849.6	11531.2	10504.7	10461.7	10901.7	10787.9
45°	21206.7	21204.1	20228.2	18830.1	18276.5	16028.9	13306.0	11890.2	11824.5	11998.9	11682.9
47.5°	22083.9	22099.1	21608.6	20625.2	20857.8	18976.8	15543.5	13897.6	13799.0	13728.2	13247.8
50°	21401.3	21431.7	21472.1	21280.0	22751.4	22938.5	18544.4	16726.7	16678.6	16362.6	15611.7
52.5°	19171.4	19325.7	19801.0	20410.3	23408.7	26740.9	23249.4	20240.9	19983.0	19646.7	18820.0
55°	15414.5	15583.9	16486.5	17965.5	22430.3	29238.8	29843.0	24771.4	24341.6	23337.9	22144.6
57.5°	10201.3	10464.3	11773.9	13654.9	19588.6	29640.8	36421.4	31059.1	29562.4	26814.2	25469.2
60°	5620.2	5873.0	7293.9	8997.9	14147.9	27653.6	40845.8	39245.4	36600.9	30700.1	29506.8
62.5°	3461.1	3597.6	4646.9	6232.0	8484.7	21826.1	41761.0	49532.7	46471.1	35703.4	34383.7
65°	2755.8	2813.9	3327.1	5094.3	6082.9	12982.4	38805.5	57375.3	56353.9	41761.0	38749.9
67°	2674.8	2697.6	2940.3	4373.8	5734.0	7958.8	32510.3	58652.0	59688.6	45426.9	38886.4
67.5°	2692.5	2717.8	2947.9	4174.1	5723.9	7314.1	30341.1	58148.9	59458.5	45717.7	38282.2
70°	2596.5	2674.8	3375.2	4171.6	5443.2	6077.8	18170.3	50382.2	51744.9	42479.0	32482.5
72.5°	920.3	925.3	1458.8	3375.2	5918.5	6143.6	9124.3	36934.7	37943.4	32495.1	23418.8
75°	546.1	465.2	485.4	960.7	5655.6	5966.6	5263.7	23600.9	23977.6	18620.3	11859.8
77.5°	376.7	328.7	338.8	424.7	2154.0	5883.2	4181.7	12307.3	11905.4	6530.4	2525.7
80°	214.9	189.6	202.3	371.6	783.7	5488.8	3944.0	4990.7	4255.0	1107.4	697.8
82.5°	113.8	96.1	116.3	305.9	546.1	3420.7	3951.6	2411.9	1911.3	374.2	475.3
85°	40.5	32.9	55.6	209.8	364.1	1049.2	3663.4	2027.6	1592.8	182.0	361.5
87.5°	7.6	7.6	22.8	86.0	146.6	321.1	2166.7	1203.4	806.5	108.7	247.8
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: P191866

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7050-1200-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9559.2	9559.2	9559.2	9559.2	9559.2	9559.2	9559.2	9559.2	9559.2	9559.2	9559.2
2.5°	9528.8	9420.1	9273.5	9094.0	8881.6	8694.5	8555.5	8411.4	8381.0	8330.5	8322.9
5°	9465.6	9278.5	8914.5	8497.3	8052.4	7650.4	7324.2	7033.5	6904.5	6793.3	6780.7
7.5°	9372.1	9091.5	8472.0	7799.5	7104.3	6472.2	5936.2	5557.0	5208.1	5041.3	5016.0
10°	9263.4	8861.4	7974.0	7041.1	6080.4	5187.9	4391.5	3724.1	3319.5	3079.4	3049.0
12.5°	9162.2	8636.4	7465.8	6254.8	4978.1	3784.7	2760.8	2123.7	1699.0	1527.0	1506.8
15°	9114.2	8454.3	6990.5	5450.8	3825.2	2409.4	1509.3	1168.0	1029.0	988.5	986.0
17.5°	9109.2	8300.1	6525.3	4619.0	2679.9	1400.6	983.5	897.5	869.7	859.6	859.6
20°	9106.6	8153.5	6060.1	3756.9	1701.5	932.9	819.1	798.9	778.7	766.0	766.0
22.5°	9134.4	8022.0	5574.7	2877.1	1072.0	755.9	720.5	700.3	675.0	657.3	654.8
25°	9162.2	7920.9	5079.2	2047.9	776.2	657.3	621.9	594.1	558.7	536.0	533.5
27.5°	9167.3	7794.5	4548.3	1370.3	649.8	573.9	528.4	485.4	445.0	422.2	419.7
30°	9091.5	7582.1	3959.2	925.3	573.9	498.1	437.4	391.9	353.9	336.3	336.3
32.5°	8942.3	7319.2	3312.0	697.8	510.7	427.3	361.5	318.6	293.3	285.7	283.2
35°	8808.3	7036.0	2647.0	591.6	457.6	361.5	295.8	268.0	252.8	250.3	247.8
37.5°	8729.9	6808.5	2022.6	536.0	407.0	303.4	250.3	230.1	222.5	217.4	220.0
40°	8790.6	6618.9	1494.2	490.5	356.5	252.8	212.4	202.3	194.7	192.1	192.1
42.5°	9056.1	6586.0	1109.9	450.0	308.4	209.8	184.6	177.0	171.9	169.4	171.9
45°	9753.8	6788.3	862.1	412.1	260.4	177.0	156.7	154.2	151.7	151.7	151.7
47.5°	10803.1	7205.4	718.0	369.1	217.4	151.7	136.5	134.0	131.5	134.0	134.0
50°	12580.4	7968.9	642.2	326.1	179.5	128.9	116.3	116.3	116.3	116.3	118.8
52.5°	15283.0	9470.7	591.6	283.2	146.6	108.7	98.6	98.6	101.1	101.1	103.7
55°	18294.1	11462.9	546.1	240.2	123.9	91.0	80.9	83.4	86.0	88.5	88.5
57.5°	21560.6	13670.0	508.2	197.2	106.2	73.3	68.3	70.8	73.3	78.4	78.4
60°	25502.1	16059.2	452.6	154.2	88.5	58.1	53.1	58.1	65.7	70.8	73.3
62.5°	29830.4	18370.0	381.8	121.4	73.3	45.5	43.0	53.1	63.2	68.3	70.8
65°	32788.4	19095.6	293.3	98.6	55.6	32.9	35.4	48.0	60.7	68.3	68.3
67°	31590.0	17313.2	240.2	83.4	45.5	25.3	32.9	48.0	60.7	65.7	68.3
67.5°	30758.2	16615.4	230.1	80.9	43.0	25.3	32.9	48.0	60.7	68.3	68.3
70°	25026.8	12481.8	192.1	60.7	35.4	22.8	27.8	45.5	58.1	65.7	65.7
72.5°	17389.0	7695.9	171.9	43.0	30.3	20.2	25.3	43.0	55.6	63.2	65.7
75°	8267.3	2786.1	146.6	32.9	27.8	17.7	22.8	43.0	55.6	63.2	63.2
77.5°	1686.3	647.2	118.8	27.8	22.8	17.7	20.2	40.5	53.1	60.7	60.7
80°	553.7	250.3	88.5	25.3	22.8	17.7	20.2	37.9	53.1	58.1	60.7
82.5°	399.5	126.4	58.1	25.3	22.8	17.7	17.7	37.9	50.6	58.1	58.1
85°	305.9	88.5	37.9	25.3	22.8	17.7	17.7	35.4	48.0	55.6	55.6
87.5°	202.3	35.4	30.3	25.3	22.8	17.7	17.7	35.4	45.5	53.1	55.6
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)