

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: P193676

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-8030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33256 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 445
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

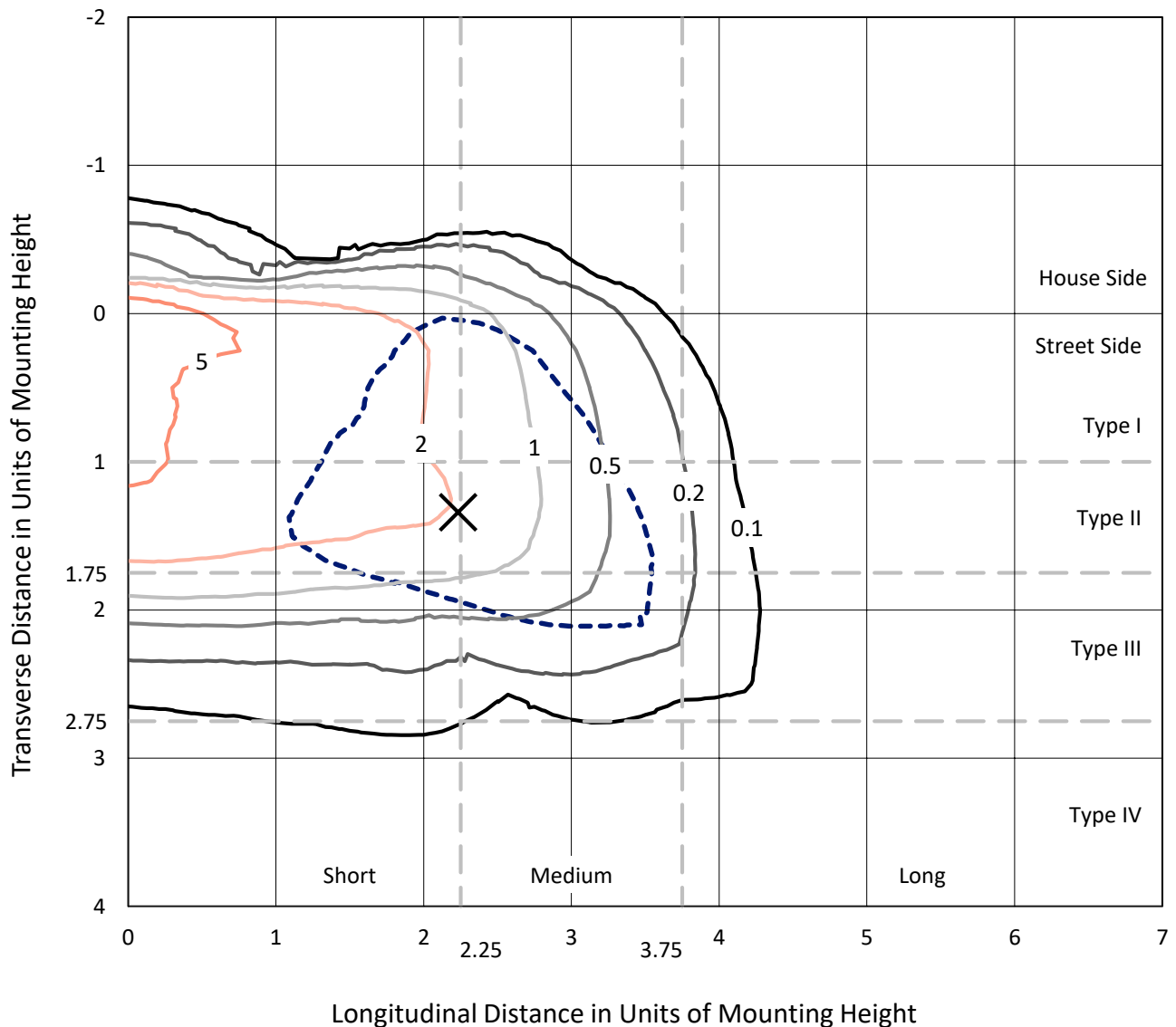


REPORT NUMBER: P193676

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-8030-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

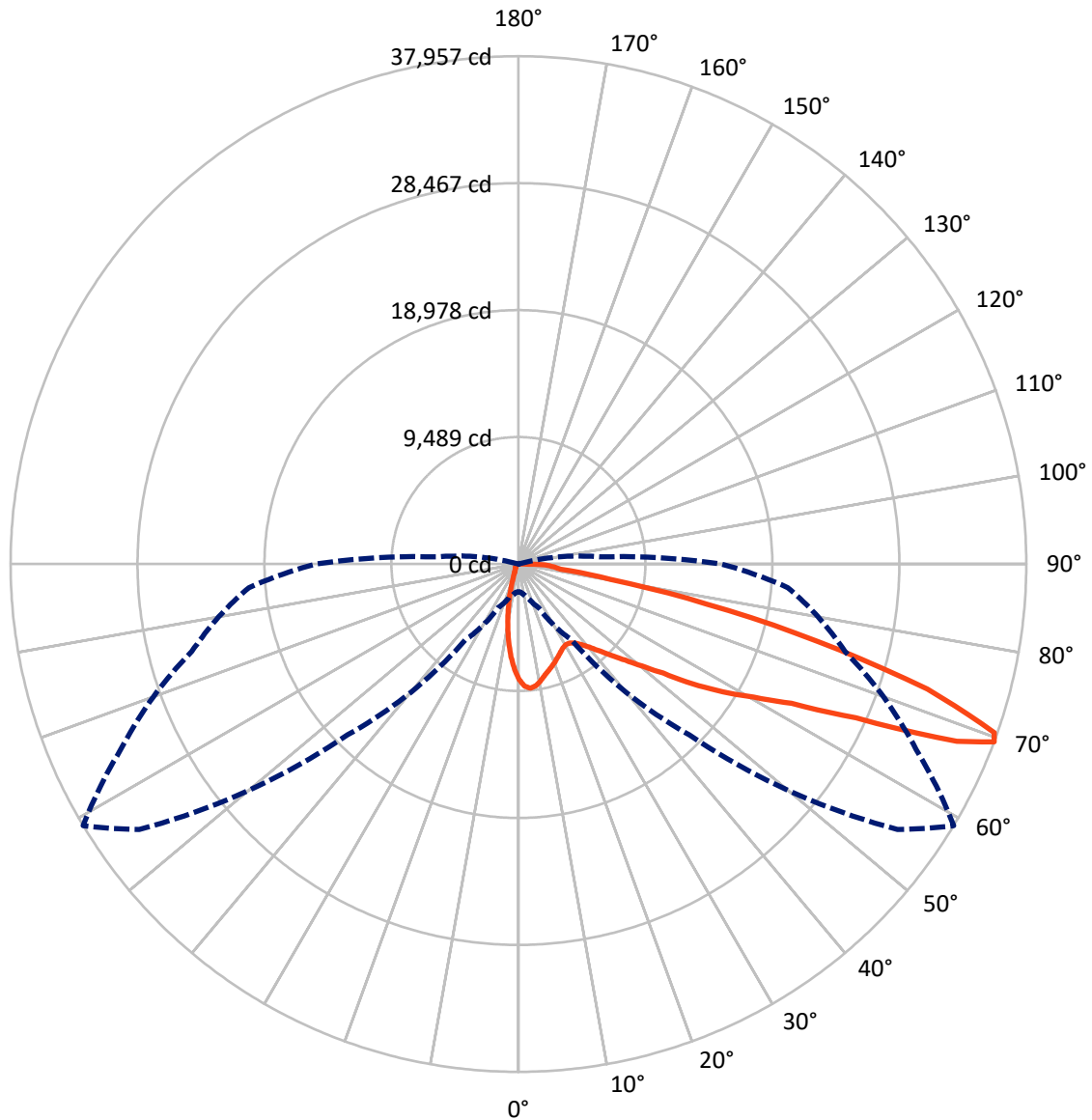


Based on 30 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P193676

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-8030-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P193676

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-8030-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2708.3	0.0	2708.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	30547.7	0.0	30547.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	33256.0	0.0	33256.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	702.6	2.1
10°-20°	1451.8	4.4
20°-30°	1953.6	5.9
30°-40°	2836.5	8.5
40°-50°	4723.0	14.2
50°-60°	7367.7	22.2
60°-70°	9117.0	27.4
70°-80°	4620.4	13.9
80°-90°	483.5	1.5
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°	33256.0	100.0
0°-180°	33256.0	100.0



REPORT NUMBER: P193676

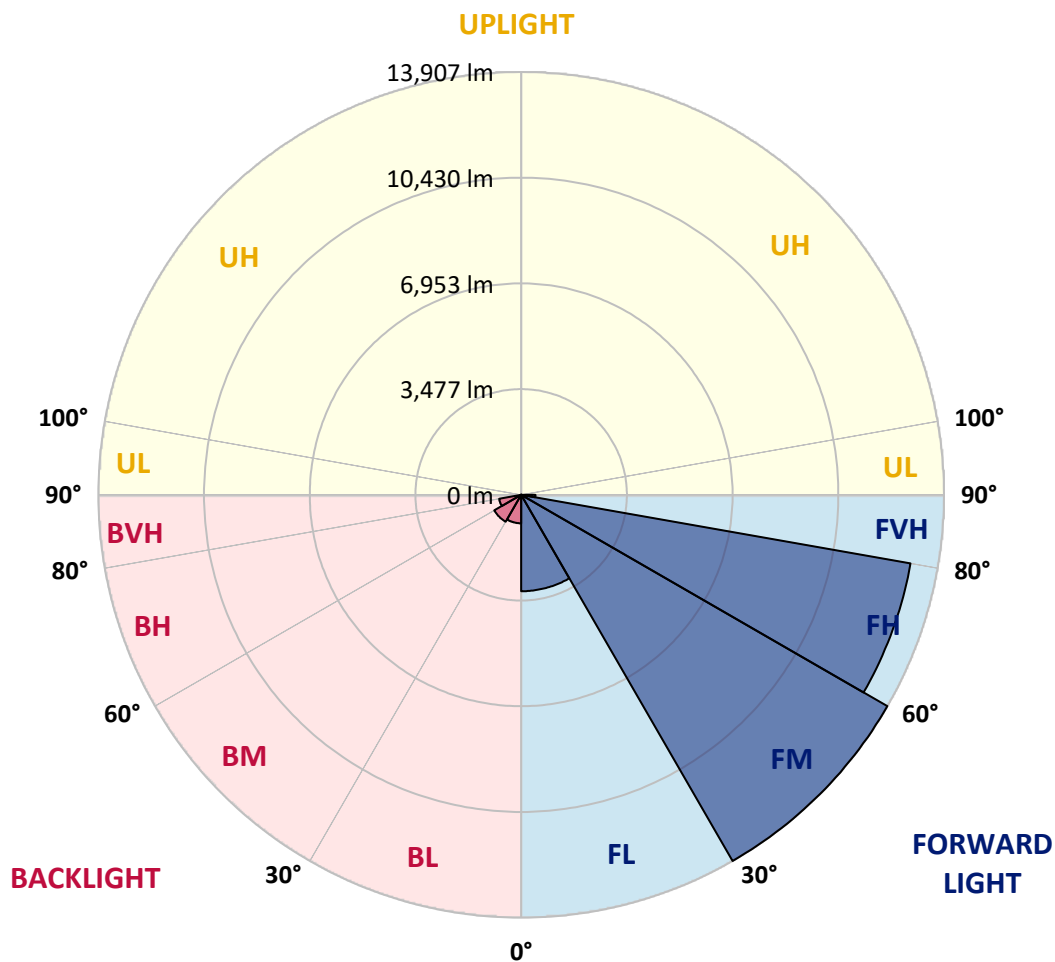
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3170.6	9.5			
FM (30°-60°)	13906.7	41.8			
FH (60°-80°)	13001.9	39.1			G5
FVH (80°-90°)	468.6	1.4			G3/500
BL (0°-30°)	937.4	2.8	B2/1000		
BM (30°-60°)	1020.5	3.1	B2/2500		
BH (60°-80°)	735.5	2.2	B2/1000		G2/1000
BVH (80°-90°)	14.9	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type III Short





REPORT NUMBER: P193676

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-8030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8656.1	8656.1	8656.1	8656.1	8656.1	8656.1	8656.1	8656.1	8656.1	8656.1	8656.1
2.5°	9487.3	9483.5	9442.1	9423.3	9389.5	9318.0	9207.1	9148.8	9054.7	8891.1	8671.1
5°	9400.8	9445.9	9470.3	9472.2	9496.7	9470.3	9370.7	9321.8	9192.0	8928.8	8533.8
7.5°	8814.0	8831.0	8900.5	8960.7	9077.3	9188.3	9224.0	9203.3	9126.2	8844.1	8319.5
10°	8185.9	8202.9	8285.6	8364.6	8522.6	8693.7	8874.2	8911.8	8943.8	8723.8	8112.6
12.5°	7644.4	7661.3	7745.9	7849.3	8033.6	8244.2	8524.4	8586.5	8727.5	8609.1	7947.1
15°	7178.0	7185.5	7268.2	7396.1	7616.1	7886.9	8204.7	8304.4	8520.7	8528.2	7802.3
17.5°	6781.2	6800.0	6850.8	6973.0	7213.7	7548.4	7918.9	8061.8	8315.7	8460.5	7661.3
20°	6538.6	6557.4	6555.5	6623.2	6839.5	7196.8	7633.1	7804.2	8112.6	8390.9	7535.3
22.5°	6491.6	6491.6	6442.7	6433.3	6561.2	6860.2	7335.9	7544.7	7930.2	8360.8	7446.9
25°	6659.0	6651.4	6529.2	6429.5	6435.2	6613.8	7048.2	7296.5	7776.0	8381.5	7399.9
27.5°	7012.5	7003.1	6848.9	6659.0	6506.6	6504.8	6830.1	7097.1	7653.8	8479.3	7418.7
30°	7501.4	7497.7	7330.3	7091.5	6815.0	6561.2	6754.9	6997.5	7574.8	8656.1	7461.9
32.5°	8035.5	8029.9	7903.9	7651.9	7302.1	6815.0	6833.8	7036.9	7597.3	8891.1	7567.3
35°	8601.5	8592.1	8537.6	8317.6	7932.1	7283.3	7093.4	7251.3	7740.3	9242.8	7774.1
37.5°	9214.6	9224.0	9263.5	9052.9	8648.6	7939.6	7527.8	7634.9	8028.0	9720.5	8110.7
40°	10119.1	10117.2	10130.4	9854.0	9464.7	8742.6	8135.2	8169.0	8509.4	10354.2	8622.2
42.5°	11760.8	11646.1	11298.2	10734.1	10342.9	9660.3	8900.5	8864.8	9098.0	11138.4	9338.7
45°	13966.7	13722.2	12819.6	11738.3	11238.0	10694.6	9842.7	9728.0	9876.5	12080.5	10222.6
47.5°	15864.1	15610.3	14333.4	12783.8	12187.7	11676.2	10946.6	10739.7	10788.6	13135.5	11343.4
50°	16509.2	16385.1	15269.9	13694.0	13107.3	12911.7	12227.2	11975.2	11905.6	14356.0	12642.8
52.5°	16285.4	16276.0	15533.2	14284.5	13949.8	14190.5	13838.8	13547.3	13291.6	15642.2	13964.8
55°	15926.2	15973.2	15640.4	14801.6	14790.4	15358.3	16042.8	15800.2	15059.3	17039.5	15104.4
57.5°	14935.2	15136.4	15580.2	15779.5	16242.1	16823.2	17878.2	18021.1	17144.8	18109.5	16050.3
60°	12118.1	12560.1	14011.8	15920.6	18113.3	19561.3	20093.5	20215.7	18856.1	18999.0	17327.2
62.5°	8601.5	9052.9	10893.9	14122.8	18141.5	23158.7	23393.8	22914.3	20740.4	20317.2	19529.3
65°	4565.9	4913.8	6418.2	10194.4	15728.7	23993.7	29165.1	27735.9	24065.1	22910.5	22374.5
67.5°	2335.6	2440.9	3038.9	4989.0	10813.0	21312.0	34338.5	35344.6	29795.1	25483.1	22237.3
69°	2066.7	2128.8	2525.6	3606.9	6924.1	18051.2	34590.5	37956.6	32794.6	25268.7	20208.2
70°	2000.9	2055.4	2416.5	3264.6	5412.2	15138.3	33625.7	37727.2	33561.8	24452.5	18692.5
72.5°	1698.1	1745.1	2151.3	2884.7	4398.6	7514.6	27314.7	31969.0	30116.7	20369.9	13530.4
75°	1135.8	1290.0	2064.8	2704.2	4092.0	4268.8	18007.9	23102.3	21460.6	13739.1	7048.2
77.5°	272.7	293.4	583.0	2151.3	3742.3	3757.3	9261.6	14361.6	11713.8	4896.9	1666.1
80°	146.7	141.0	163.6	426.9	3484.6	3526.0	4169.1	6971.1	4182.3	812.4	549.1
82.5°	103.4	97.8	105.3	178.7	1096.3	3211.9	3016.4	3155.5	1733.8	312.2	246.3
85°	37.6	35.7	58.3	161.7	344.1	1846.7	3099.1	2602.7	1404.8	142.9	180.5
87.5°	13.2	11.3	22.6	88.4	105.3	786.1	1912.5	1967.0	552.9	86.5	84.6
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: P193676

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-8030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8656.1	8656.1	8656.1	8656.1	8656.1	8656.1	8656.1	8656.1	8656.1	8656.1	8656.1
2.5°	8579.0	8462.4	8248.0	8028.0	7824.9	7580.4	7458.2	7337.8	7287.1	7268.2	7179.9
5°	8330.7	8133.3	7678.2	7221.2	6800.0	6352.4	6057.2	5820.2	5681.1	5613.4	5506.2
7.5°	8012.9	7689.5	6999.3	6294.1	5637.8	4990.9	4511.4	4142.8	3888.9	3766.7	3655.7
10°	7704.5	7273.9	6292.3	5331.3	4439.9	3582.4	2920.5	2440.9	2134.4	1993.4	1903.1
12.5°	7428.1	6869.6	5609.6	4392.9	3274.0	2269.8	1596.6	1214.8	1024.9	959.1	927.1
15°	7181.7	6497.2	4964.6	3501.5	2217.1	1297.6	872.6	742.8	712.7	712.7	709.0
17.5°	6948.6	6132.4	4342.1	2664.7	1391.6	793.6	663.8	646.9	646.9	654.4	654.4
20°	6724.8	5784.5	3740.4	1912.5	876.3	630.0	599.9	596.1	599.9	609.3	609.3
22.5°	6533.0	5468.6	3178.1	1312.6	650.7	567.9	552.9	547.2	549.1	554.8	558.5
25°	6390.0	5201.5	2647.8	889.5	560.4	517.1	500.2	490.8	483.3	483.3	487.1
27.5°	6299.8	4975.9	2134.4	646.9	504.0	470.1	443.8	428.8	411.8	402.4	406.2
30°	6234.0	4761.5	1653.0	528.4	451.3	417.5	383.6	359.2	334.7	323.5	327.2
32.5°	6209.5	4588.5	1235.5	466.4	404.3	366.7	325.3	293.4	267.0	257.6	259.5
35°	6275.3	4451.2	904.5	421.2	366.7	319.7	272.7	236.9	216.3	210.6	212.5
37.5°	6448.3	4377.9	677.0	383.6	332.9	280.2	227.5	193.7	180.5	180.5	182.4
40°	6775.5	4376.0	543.5	357.3	302.8	242.6	188.1	163.6	156.1	159.8	161.7
42.5°	7253.2	4475.7	473.9	332.9	276.4	206.9	156.1	139.2	137.3	141.0	142.9
45°	7905.7	4658.1	436.3	312.2	248.2	173.0	131.6	120.4	120.4	126.0	127.9
47.5°	8705.0	4925.1	404.3	291.5	220.0	144.8	112.8	105.3	107.2	112.8	114.7
50°	9667.8	5261.7	372.3	268.9	199.3	120.4	97.8	92.1	94.0	101.5	103.4
52.5°	10764.2	5714.9	346.0	248.2	173.0	99.7	82.7	79.0	82.7	90.3	92.1
55°	11704.4	6121.1	314.0	231.3	139.2	82.7	67.7	67.7	71.5	80.9	82.7
57.5°	12608.9	6546.1	285.8	199.3	109.1	65.8	56.4	58.3	63.9	73.3	75.2
60°	13936.6	7266.4	252.0	167.4	82.7	52.7	47.0	48.9	56.4	65.8	67.7
62.5°	16191.4	8362.7	218.1	139.2	63.9	41.4	37.6	41.4	50.8	62.1	63.9
65°	18226.1	8808.4	178.7	116.6	48.9	32.0	32.0	37.6	48.9	60.2	62.1
67.5°	17092.1	7414.9	139.2	92.1	37.6	24.4	26.3	35.7	47.0	60.2	62.1
69°	15115.7	6062.8	118.5	73.3	32.0	22.6	24.4	35.7	47.0	58.3	60.2
70°	13575.5	5118.8	105.3	62.1	28.2	22.6	24.4	33.8	47.0	58.3	60.2
72.5°	9092.4	2764.4	84.6	45.1	26.3	20.7	20.7	33.8	45.1	56.4	58.3
75°	3907.7	763.5	67.7	32.0	22.6	18.8	18.8	32.0	43.3	54.5	58.3
77.5°	714.6	193.7	54.5	28.2	22.6	18.8	16.9	30.1	41.4	52.7	54.5
80°	284.0	95.9	43.3	24.4	20.7	16.9	15.0	28.2	39.5	50.8	52.7
82.5°	171.1	54.5	35.7	22.6	20.7	15.0	13.2	24.4	37.6	48.9	50.8
85°	139.2	37.6	28.2	22.6	18.8	15.0	11.3	22.6	33.8	47.0	48.9
87.5°	67.7	26.3	26.3	20.7	18.8	15.0	11.3	20.7	32.0	45.1	47.0
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)