

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: P191915

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191915
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-07-LED-E1-SL3-7050-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA 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: 23699 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 226
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

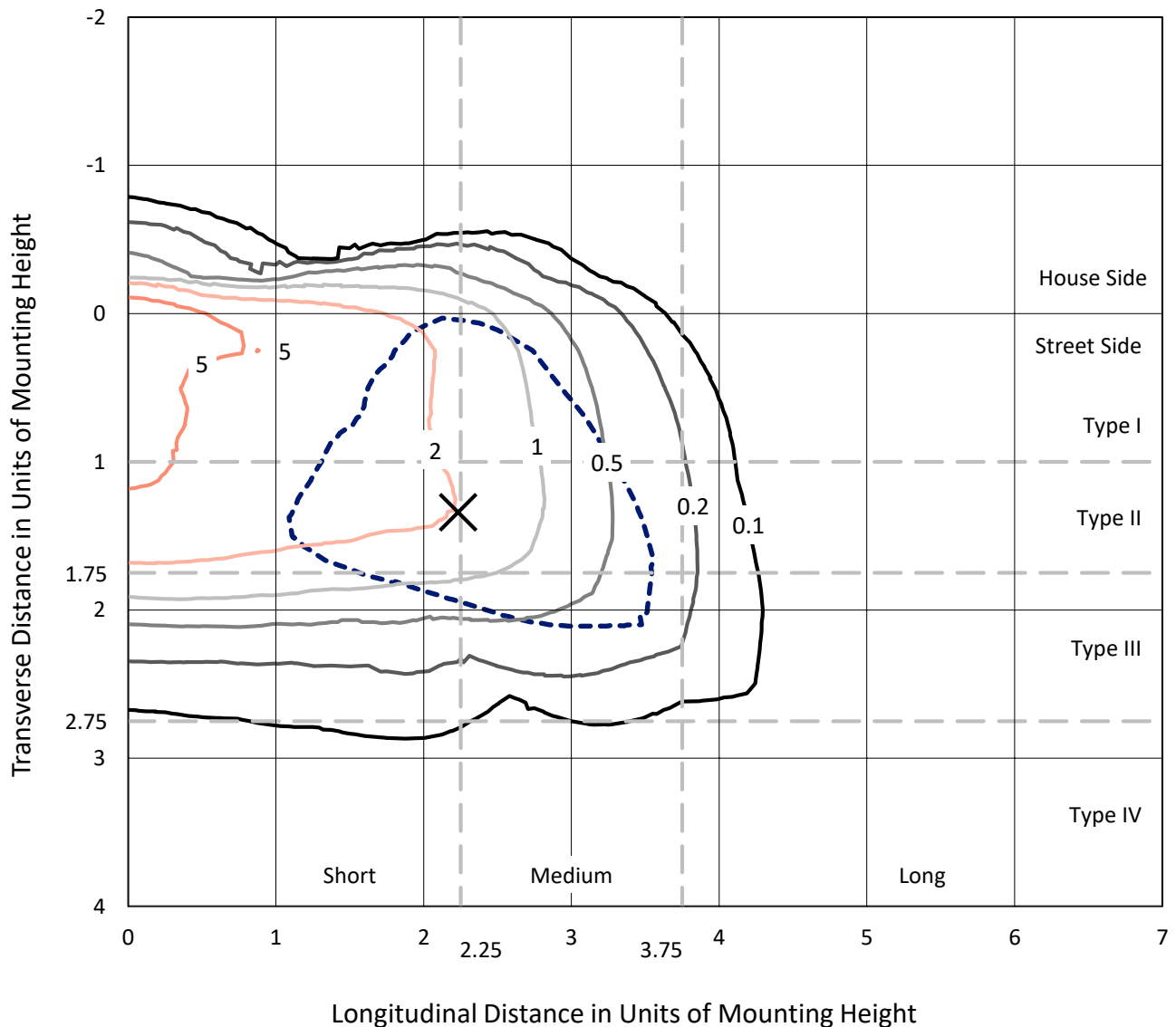


REPORT NUMBER: P191915

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL3-7050-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

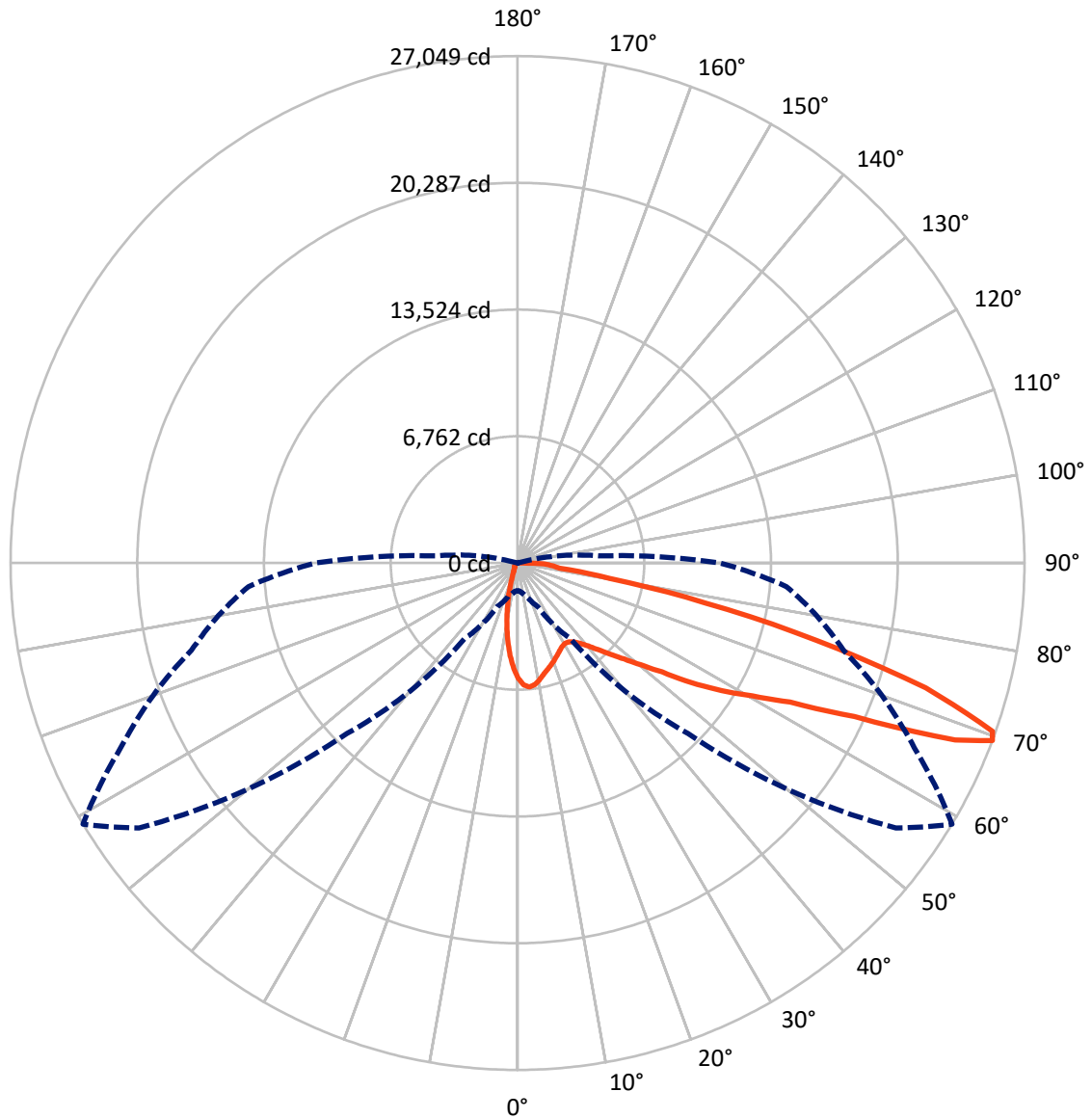


Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P191915

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL3-7050-600-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191915

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL3-7050-600-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1930.0	0.0	1930.0
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	21769.0	0.0	21769.0
	% Fixture	91.9	0.0	91.9
Total	Lumens	23699.0	0.0	23699.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.7	2.1
10°-20°	1034.6	4.4
20°-30°	1392.2	5.9
30°-40°	2021.3	8.5
40°-50°	3365.7	14.2
50°-60°	5250.4	22.2
60°-70°	6497.0	27.4
70°-80°	3292.6	13.9
80°-90°	344.5	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°	23699.0	100.0
0°-180°	23699.0	100.0



REPORT NUMBER: P191915

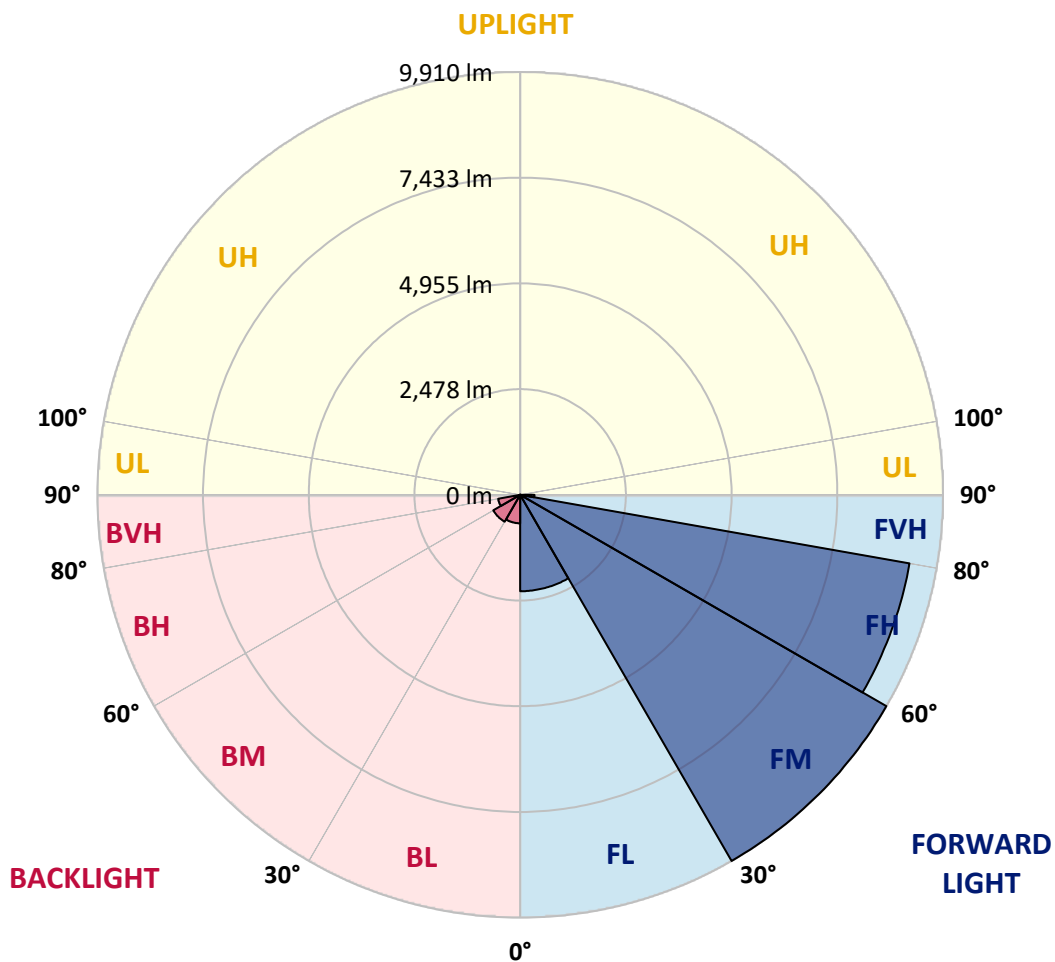
CATALOG NUMBER: GLEON-AF-07-LED-E1-SL3-7050-600-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2259.4	9.5			
FM (30°-60°)	9910.2	41.8			
FH (60°-80°)	9265.4	39.1			G4/12000
FVH (80°-90°)	333.9	1.4			G3/500
BL (0°-30°)	668.0	2.8	B2/1000		
BM (30°-60°)	727.2	3.1	B1/1000		
BH (60°-80°)	524.1	2.2	B2/1000		G2/1000
BVH (80°-90°)	10.6	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-G4

Type III Short





REPORT NUMBER: P191915

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL3-7050-600-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6168.5	6168.5	6168.5	6168.5	6168.5	6168.5	6168.5	6168.5	6168.5	6168.5	6168.5
2.5°	6760.9	6758.2	6728.7	6715.3	6691.2	6640.2	6561.2	6519.6	6452.6	6336.0	6179.2
5°	6699.2	6731.4	6748.8	6750.1	6767.6	6748.8	6677.8	6642.9	6550.5	6362.8	6081.4
7.5°	6281.1	6293.2	6342.7	6385.6	6468.7	6547.8	6573.2	6558.5	6503.5	6302.5	5928.6
10°	5833.5	5845.6	5904.5	5960.8	6073.4	6195.3	6324.0	6350.8	6373.6	6216.8	5781.2
12.5°	5447.5	5459.6	5519.9	5593.6	5724.9	5875.0	6074.7	6118.9	6219.4	6135.0	5663.3
15°	5115.2	5120.6	5179.5	5270.6	5427.4	5620.4	5846.9	5917.9	6072.0	6077.4	5560.1
17.5°	4832.4	4845.8	4882.0	4969.1	5140.7	5379.2	5643.2	5745.0	5926.0	6029.2	5459.6
20°	4659.6	4673.0	4671.6	4719.9	4874.0	5128.6	5439.5	5561.5	5781.2	5979.6	5369.8
22.5°	4626.1	4626.1	4591.2	4584.5	4675.6	4888.7	5227.8	5376.5	5651.2	5958.1	5306.8
25°	4745.3	4740.0	4652.9	4581.8	4585.9	4713.2	5022.7	5199.6	5541.4	5972.9	5273.3
27.5°	4997.3	4990.6	4880.7	4745.3	4636.8	4635.4	4867.3	5057.6	5454.2	6042.6	5286.7
30°	5345.7	5343.0	5223.7	5053.6	4856.6	4675.6	4813.7	4986.5	5398.0	6168.5	5317.6
32.5°	5726.3	5722.3	5632.5	5452.9	5203.6	4856.6	4870.0	5014.7	5414.0	6336.0	5392.6
35°	6129.7	6123.0	6084.1	5927.3	5652.6	5190.2	5054.9	5167.5	5515.9	6586.6	5540.0
37.5°	6566.5	6573.2	6601.4	6451.3	6163.2	5657.9	5364.5	5440.8	5720.9	6927.0	5779.9
40°	7211.1	7209.8	7219.2	7022.2	6744.8	6230.2	5797.3	5821.4	6064.0	7378.6	6144.4
42.5°	8381.0	8299.3	8051.4	7649.3	7370.6	6884.1	6342.7	6317.3	6483.4	7937.5	6655.0
45°	9953.0	9778.8	9135.5	8365.0	8008.5	7621.2	7014.1	6932.4	7038.3	8608.9	7284.8
47.5°	11305.2	11124.2	10214.3	9110.1	8685.2	8320.7	7800.8	7653.4	7688.2	9360.7	8083.5
50°	11764.8	11676.4	10881.7	9758.7	9340.6	9201.2	8713.4	8533.8	8484.2	10230.4	9009.6
52.5°	11605.3	11598.6	11069.3	10179.5	9940.9	10112.5	9861.9	9654.1	9471.9	11147.0	9951.6
55°	11349.4	11382.9	11145.7	10548.0	10540.0	10944.7	11432.5	11259.6	10731.6	12142.7	10763.8
57.5°	10643.1	10786.5	11102.8	11244.9	11574.5	11988.6	12740.4	12842.3	12217.8	12905.3	11437.8
60°	8635.7	8950.6	9985.2	11345.4	12907.9	13939.8	14319.1	14406.2	13437.3	13539.1	12347.8
62.5°	6129.7	6451.3	7763.3	10064.2	12928.0	16503.4	16671.0	16329.2	14780.1	14478.5	13917.0
65°	3253.8	3501.7	4573.8	7264.7	11208.7	17098.5	20783.8	19765.3	17149.4	16326.5	15944.6
67.5°	1664.4	1739.5	2165.6	3555.3	7705.6	15187.5	24470.4	25187.3	21232.7	18159.8	15846.8
69°	1472.8	1517.0	1799.8	2570.3	4934.3	12863.7	24650.0	27048.8	23370.2	18007.0	14400.8
70°	1425.9	1464.7	1722.0	2326.4	3856.8	10787.9	23962.5	26885.3	23916.9	17425.4	13320.7
72.5°	1210.1	1243.6	1533.1	2055.7	3134.5	5355.1	19465.1	22781.9	21461.8	14516.1	9642.1
75°	809.4	919.3	1471.4	1927.1	2916.1	3042.0	12832.9	16463.2	15293.3	9790.8	5022.7
77.5°	194.3	209.1	415.4	1533.1	2666.8	2677.5	6600.0	10234.4	8347.5	3489.6	1187.3
80°	104.5	100.5	116.6	304.2	2483.2	2512.7	2971.0	4967.8	2980.4	578.9	391.3
82.5°	73.7	69.7	75.0	127.3	781.3	2288.9	2149.5	2248.7	1235.6	222.5	175.6
85°	26.8	25.5	41.5	115.2	245.2	1316.0	2208.5	1854.7	1001.1	101.8	128.7
87.5°	9.4	8.0	16.1	63.0	75.0	560.2	1362.9	1401.8	394.0	61.6	60.3
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: P191915

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL3-7050-600-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6168.5	6168.5	6168.5	6168.5	6168.5	6168.5	6168.5	6168.5	6168.5	6168.5	6168.5
2.5°	6113.6	6030.5	5877.7	5720.9	5576.2	5402.0	5314.9	5229.1	5192.9	5179.5	5116.5
5°	5936.7	5796.0	5471.7	5146.0	4845.8	4526.9	4316.5	4147.6	4048.5	4000.2	3923.8
7.5°	5710.2	5479.7	4987.9	4485.3	4017.6	3556.6	3214.9	2952.3	2771.3	2684.2	2605.2
10°	5490.4	5183.5	4484.0	3799.2	3164.0	2552.9	2081.2	1739.5	1521.0	1420.5	1356.2
12.5°	5293.4	4895.4	3997.5	3130.5	2333.1	1617.5	1137.8	865.7	730.4	683.5	660.7
15°	5117.9	4630.1	3537.9	2495.3	1580.0	924.7	621.8	529.3	507.9	507.9	505.2
17.5°	4951.7	4370.1	3094.3	1898.9	991.7	565.5	473.1	461.0	461.0	466.4	466.4
20°	4792.2	4122.2	2665.5	1362.9	624.5	448.9	427.5	424.8	427.5	434.2	434.2
22.5°	4655.5	3897.0	2264.8	935.4	463.7	404.7	394.0	390.0	391.3	395.3	398.0
25°	4553.7	3706.7	1886.9	633.9	399.4	368.5	356.5	349.8	344.4	344.4	347.1
27.5°	4489.4	3545.9	1521.0	461.0	359.1	335.0	316.3	305.5	293.5	286.8	289.5
30°	4442.5	3393.2	1178.0	376.6	321.6	297.5	273.4	256.0	238.5	230.5	233.2
32.5°	4425.0	3269.9	880.5	332.3	288.1	261.3	231.8	209.1	190.3	183.6	184.9
35°	4471.9	3172.0	644.6	300.2	261.3	227.8	194.3	168.9	154.1	150.1	151.4
37.5°	4595.2	3119.8	482.4	273.4	237.2	199.7	162.2	138.0	128.7	128.7	130.0
40°	4828.4	3118.4	387.3	254.6	215.8	172.9	134.0	116.6	111.2	113.9	115.2
42.5°	5168.8	3189.5	337.7	237.2	197.0	147.4	111.2	99.2	97.8	100.5	101.8
45°	5633.8	3319.5	310.9	222.5	176.9	123.3	93.8	85.8	85.8	89.8	91.1
47.5°	6203.4	3509.7	288.1	207.7	156.8	103.2	80.4	75.0	76.4	80.4	81.7
50°	6889.5	3749.6	265.3	191.6	142.1	85.8	69.7	65.7	67.0	72.4	73.7
52.5°	7670.8	4072.6	246.6	176.9	123.3	71.0	59.0	56.3	59.0	64.3	65.7
55°	8340.8	4362.1	223.8	164.8	99.2	59.0	48.2	48.2	50.9	57.6	59.0
57.5°	8985.4	4664.9	203.7	142.1	77.7	46.9	40.2	41.5	45.6	52.3	53.6
60°	9931.5	5178.2	179.6	119.3	59.0	37.5	33.5	34.8	40.2	46.9	48.2
62.5°	11538.3	5959.5	155.5	99.2	45.6	29.5	26.8	29.5	36.2	44.2	45.6
65°	12988.3	6277.1	127.3	83.1	34.8	22.8	22.8	26.8	34.8	42.9	44.2
67.5°	12180.3	5284.1	99.2	65.7	26.8	17.4	18.8	25.5	33.5	42.9	44.2
69°	10771.8	4320.5	84.4	52.3	22.8	16.1	17.4	25.5	33.5	41.5	42.9
70°	9674.2	3647.8	75.0	44.2	20.1	16.1	17.4	24.1	33.5	41.5	42.9
72.5°	6479.4	1970.0	60.3	32.2	18.8	14.7	14.7	24.1	32.2	40.2	41.5
75°	2784.7	544.1	48.2	22.8	16.1	13.4	13.4	22.8	30.8	38.9	41.5
77.5°	509.2	138.0	38.9	20.1	16.1	13.4	12.1	21.4	29.5	37.5	38.9
80°	202.4	68.3	30.8	17.4	14.7	12.1	10.7	20.1	28.1	36.2	37.5
82.5°	121.9	38.9	25.5	16.1	14.7	10.7	9.4	17.4	26.8	34.8	36.2
85°	99.2	26.8	20.1	16.1	13.4	10.7	8.0	16.1	24.1	33.5	34.8
87.5°	48.2	18.8	18.8	14.7	13.4	10.7	8.0	14.7	22.8	32.2	33.5
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)