

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: P191865

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191865
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-SL2-7050-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 38255 lumens
Efficiency: N/A
Efficacy: 85.4 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): 448
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

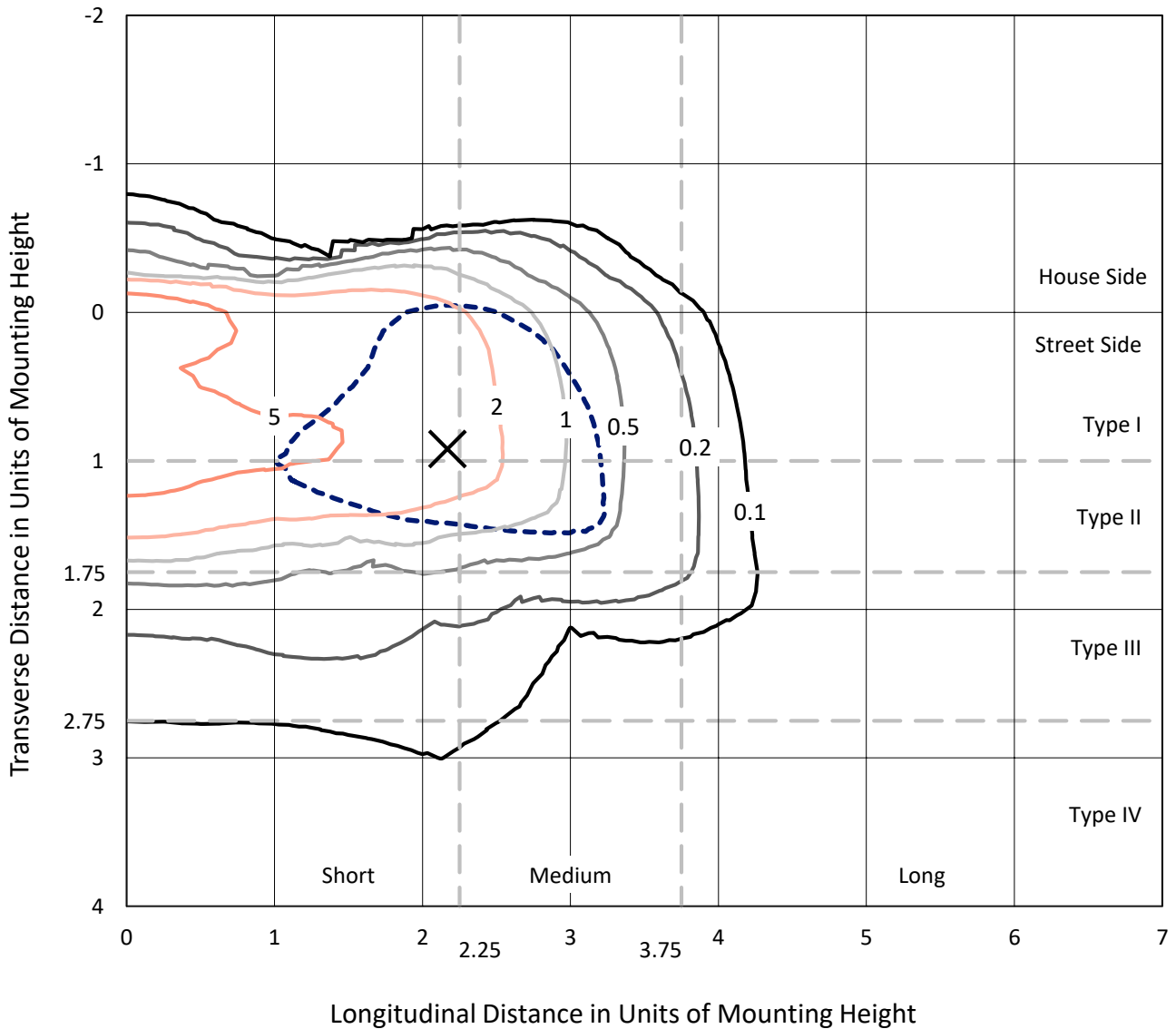


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Iso-Footcandle Lines of Horizontal Illumination

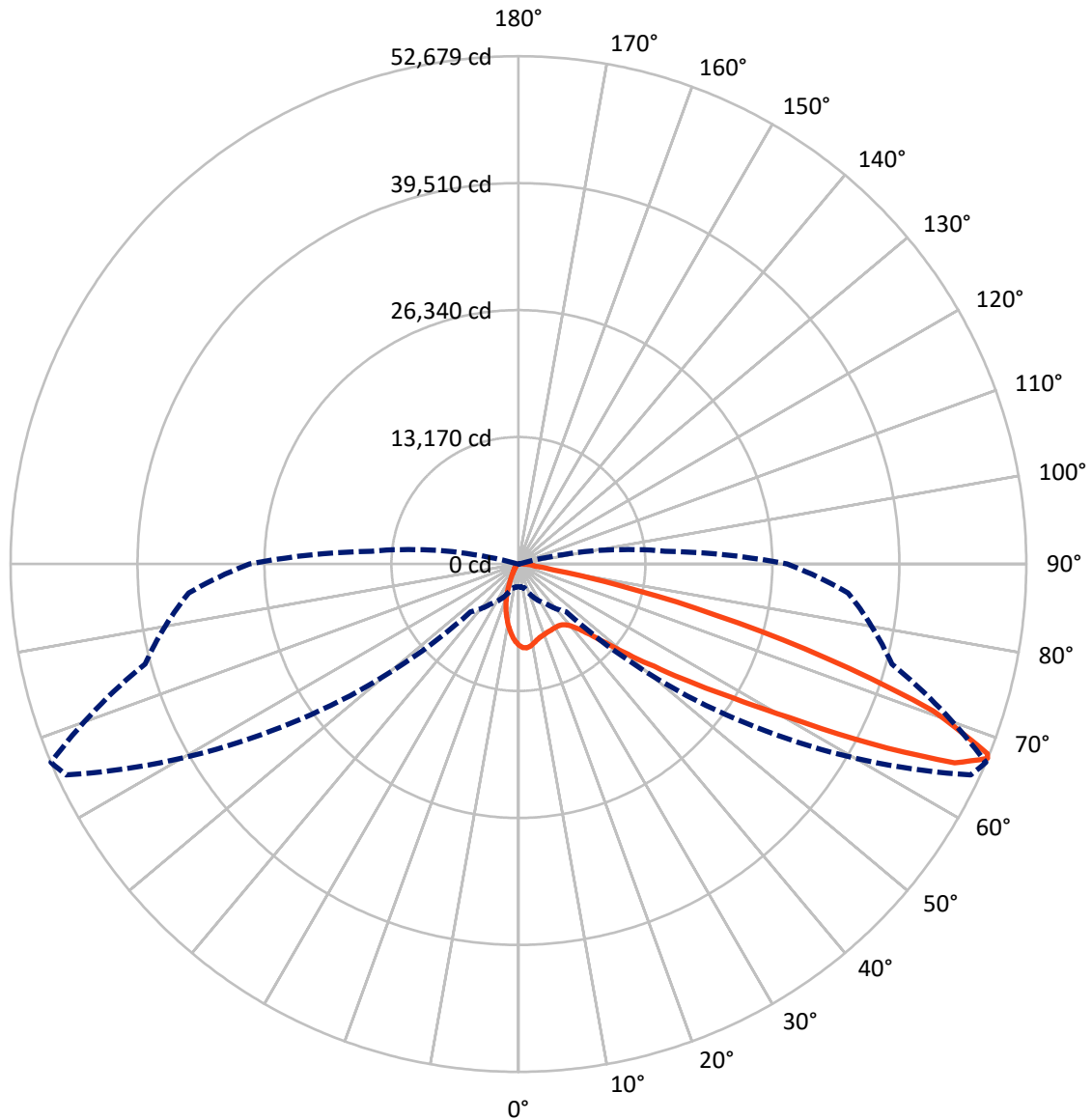
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3972.0	0.0	3972.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	34283.0	0.0	34283.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	38255.0	0.0	38255.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	686.5	1.8
10°-20°	1461.1	3.8
20°-30°	2124.3	5.6
30°-40°	3314.0	8.7
40°-50°	5870.5	15.3
50°-60°	9289.5	24.3
60°-70°	10639.9	27.8
70°-80°	4413.4	11.5
80°-90°	455.9	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°	38255.0	100.0
0°-180°	38255.0	100.0



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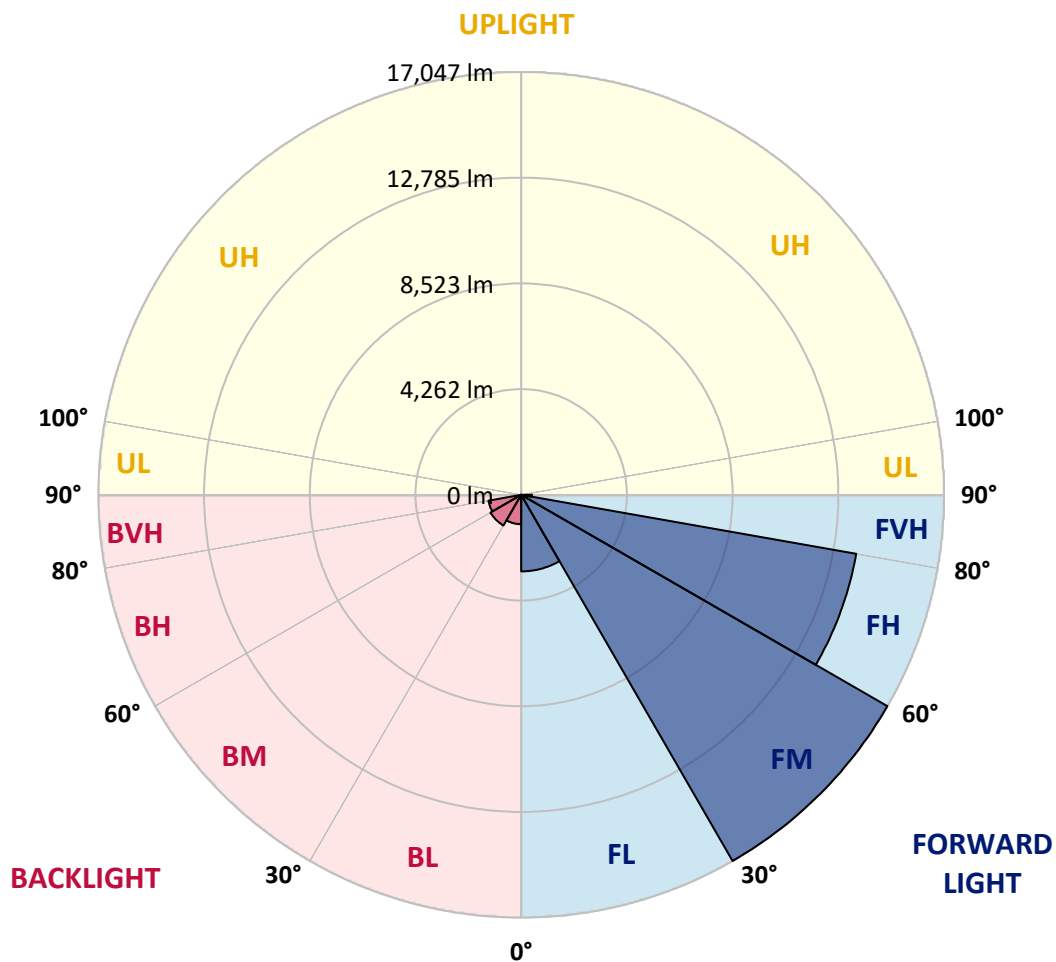
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3086.6	8.1			
FM (30°-60°)	17046.5	44.6			
FH (60°-80°)	13714.5	35.9			G5
FVH (80°-90°)	435.4	1.1			G3/500
BL (0°-30°)	1185.3	3.1	B3/2500		
BM (30°-60°)	1427.5	3.7	B2/2500		
BH (60°-80°)	1338.7	3.5	B3/2500		G3/2500
BVH (80°-90°)	20.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8436.6	8436.6	8436.6	8436.6	8436.6	8436.6	8436.6	8436.6	8436.6	8436.6	8436.6
2.5°	8722.2	8740.1	8737.9	8751.3	8782.5	8784.7	8753.5	8693.2	8679.9	8601.8	8465.6
5°	8043.9	8095.2	8126.5	8253.7	8396.5	8568.3	8697.7	8744.6	8737.9	8682.1	8476.8
7.5°	7269.7	7321.0	7356.7	7506.2	7695.8	7990.4	8327.3	8604.0	8628.5	8688.8	8467.9
10°	6754.2	6763.1	6812.2	6955.0	7153.6	7454.9	7856.5	8340.7	8414.3	8635.2	8445.6
12.5°	6330.3	6337.0	6401.7	6555.6	6767.6	7071.1	7492.8	8052.9	8166.6	8568.3	8441.1
15°	6029.0	6053.6	6111.6	6272.3	6497.6	6798.8	7231.7	7840.9	7977.0	8543.7	8481.3
17.5°	5928.6	5955.4	5973.3	6089.3	6294.6	6589.1	7033.1	7702.5	7856.5	8557.1	8559.4
20°	6033.5	6053.6	6013.4	6042.4	6169.6	6432.9	6865.8	7584.3	7767.2	8572.8	8659.8
22.5°	6424.0	6432.9	6323.6	6196.4	6174.1	6319.1	6734.1	7490.6	7686.9	8615.1	8778.0
25°	7093.4	7077.8	6899.3	6624.8	6366.0	6299.0	6656.0	7432.5	7646.8	8659.8	8900.8
27.5°	7901.1	7923.4	7678.0	7278.6	6785.5	6432.9	6644.9	7408.0	7628.9	8691.0	9007.9
30°	8882.9	8914.1	8633.0	8130.9	7423.6	6763.1	6747.5	7403.5	7617.7	8670.9	9016.8
32.5°	9884.8	9922.7	9701.8	9184.1	8276.0	7316.5	6979.6	7452.6	7640.1	8601.8	8965.5
35°	10933.5	10987.0	10839.8	10395.7	9431.8	8115.3	7387.9	7602.1	7744.9	8595.1	8914.1
37.5°	12381.6	12430.7	12154.0	11683.2	10830.9	9186.4	8043.9	7883.3	7992.6	8702.2	8927.5
40°	14543.8	14537.1	13823.1	13102.3	12368.2	10547.5	8965.5	8392.0	8447.8	9025.7	9092.6
42.5°	16900.1	16888.9	15833.5	14737.9	14075.2	12223.2	10177.1	9271.2	9233.2	9621.5	9521.1
45°	18716.4	18714.1	17852.8	16618.9	16130.2	14146.6	11743.5	10493.9	10435.9	10589.9	10311.0
47.5°	19490.6	19504.0	19071.1	18203.2	18408.4	16748.3	13718.2	12265.6	12178.6	12116.1	11692.1
50°	18888.2	18914.9	18950.6	18781.1	20079.7	20244.8	16366.8	14762.4	14720.1	14441.1	13778.4
52.5°	16920.1	17056.2	17475.7	18013.5	20659.8	23600.7	20519.3	17864.0	17636.4	17339.6	16610.0
55°	13604.4	13753.9	14550.5	15855.8	19796.3	25805.3	26338.6	21862.5	21483.2	20597.4	19544.2
57.5°	9003.4	9235.5	10391.3	12051.4	17288.3	26160.1	32144.5	27411.8	26090.9	23665.4	22478.4
60°	4960.2	5183.4	6437.4	7941.3	12486.5	24406.2	36049.3	34636.9	32302.9	27095.0	26041.8
62.5°	3054.7	3175.2	4101.2	5500.2	7488.3	19263.0	36857.0	43716.1	41014.0	31510.8	30346.0
65°	2432.1	2483.5	2936.4	4496.1	5368.6	11457.9	34248.6	50637.7	49736.2	36857.0	34199.5
67°	2360.7	2380.8	2595.0	3860.2	5060.6	7024.2	28692.6	51764.5	52679.4	40092.4	34320.0
67.5°	2376.4	2398.7	2601.7	3683.9	5051.7	6455.2	26778.1	51320.5	52476.3	40349.1	33786.7
70°	2291.6	2360.7	2978.8	3681.7	4804.0	5364.1	16036.5	44465.8	45668.5	37490.7	28668.1
72.5°	812.2	816.7	1287.5	2978.8	5223.5	5422.1	8052.9	32597.4	33487.7	28679.2	20668.8
75°	482.0	410.6	428.4	847.9	4991.5	5265.9	4645.6	20829.4	21161.9	16433.7	10467.1
77.5°	332.5	290.1	299.0	374.9	1901.1	5192.3	3690.6	10862.1	10507.3	5763.5	2229.1
80°	189.7	167.3	178.5	328.0	691.7	4844.2	3480.9	4404.6	3755.3	977.3	615.8
82.5°	100.4	84.8	102.6	270.0	482.0	3019.0	3487.6	2128.7	1686.9	330.2	419.5
85°	35.7	29.0	49.1	185.2	321.3	926.0	3233.2	1789.5	1405.7	160.7	319.1
87.5°	6.7	6.7	20.1	75.9	129.4	283.4	1912.2	1062.1	711.8	95.9	218.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8436.6	8436.6	8436.6	8436.6	8436.6	8436.6	8436.6	8436.6	8436.6	8436.6	8436.6
2.5°	8409.9	8313.9	8184.5	8026.1	7838.6	7673.5	7550.8	7423.6	7396.8	7352.2	7345.5
5°	8354.1	8189.0	7867.7	7499.5	7106.8	6752.0	6464.1	6207.5	6093.7	5995.6	5984.4
7.5°	8271.5	8023.8	7477.2	6883.6	6270.0	5712.2	5239.2	4904.5	4596.5	4449.3	4426.9
10°	8175.6	7820.8	7037.6	6214.2	5366.3	4578.7	3875.8	3286.7	2929.7	2717.8	2691.0
12.5°	8086.3	7622.2	6589.1	5520.3	4393.5	3340.3	2436.6	1874.3	1499.5	1347.7	1329.9
15°	8043.9	7461.6	6169.6	4810.7	3376.0	2126.5	1332.1	1030.9	908.1	872.4	870.2
17.5°	8039.5	7325.4	5759.1	4076.6	2365.2	1236.2	868.0	792.1	767.6	758.7	758.7
20°	8037.2	7196.0	5348.5	3315.7	1501.7	823.4	722.9	705.1	687.2	676.1	676.1
22.5°	8061.8	7080.0	4920.1	2539.2	946.1	667.2	635.9	618.1	595.8	580.1	577.9
25°	8086.3	6990.7	4482.7	1807.4	685.0	580.1	548.9	524.4	493.1	473.0	470.8
27.5°	8090.8	6879.2	4014.2	1209.4	573.5	506.5	466.3	428.4	392.7	372.6	370.4
30°	8023.8	6691.7	3494.3	816.7	506.5	439.6	386.0	345.9	312.4	296.8	296.8
32.5°	7892.2	6459.7	2923.0	615.8	450.7	377.1	319.1	281.1	258.8	252.1	249.9
35°	7773.9	6209.8	2336.2	522.1	403.9	319.1	261.1	236.5	223.1	220.9	218.7
37.5°	7704.8	6009.0	1785.1	473.0	359.2	267.8	220.9	203.1	196.4	191.9	194.1
40°	7758.3	5841.6	1318.7	432.9	314.6	223.1	187.4	178.5	171.8	169.6	169.6
42.5°	7992.6	5812.6	979.6	397.2	272.2	185.2	162.9	156.2	151.7	149.5	151.7
45°	8608.5	5991.1	760.9	363.7	229.8	156.2	138.3	136.1	133.9	133.9	133.9
47.5°	9534.5	6359.3	633.7	325.8	191.9	133.9	120.5	118.3	116.0	118.3	118.3
50°	11103.1	7033.1	566.8	287.8	158.4	113.8	102.6	102.6	102.6	102.6	104.9
52.5°	13488.4	8358.5	522.1	249.9	129.4	95.9	87.0	87.0	89.3	89.3	91.5
55°	16145.9	10116.8	482.0	212.0	109.3	80.3	71.4	73.6	75.9	78.1	78.1
57.5°	19028.7	12064.8	448.5	174.0	93.7	64.7	60.2	62.5	64.7	69.2	69.2
60°	22507.4	14173.4	399.4	136.1	78.1	51.3	46.9	51.3	58.0	62.5	64.7
62.5°	26327.4	16212.8	336.9	107.1	64.7	40.2	37.9	46.9	55.8	60.2	62.5
65°	28938.1	16853.2	258.8	87.0	49.1	29.0	31.2	42.4	53.6	60.2	60.2
67°	27880.4	15280.1	212.0	73.6	40.2	22.3	29.0	42.4	53.6	58.0	60.2
67.5°	27146.3	14664.3	203.1	71.4	37.9	22.3	29.0	42.4	53.6	60.2	60.2
70°	22087.9	11016.1	169.6	53.6	31.2	20.1	24.5	40.2	51.3	58.0	58.0
72.5°	15347.1	6792.2	151.7	37.9	26.8	17.9	22.3	37.9	49.1	55.8	58.0
75°	7296.4	2458.9	129.4	29.0	24.5	15.6	20.1	37.9	49.1	55.8	55.8
77.5°	1488.3	571.2	104.9	24.5	20.1	15.6	17.9	35.7	46.9	53.6	53.6
80°	488.7	220.9	78.1	22.3	20.1	15.6	17.9	33.5	46.9	51.3	53.6
82.5°	352.5	111.6	51.3	22.3	20.1	15.6	15.6	33.5	44.6	51.3	51.3
85°	270.0	78.1	33.5	22.3	20.1	15.6	15.6	31.2	42.4	49.1	49.1
87.5°	178.5	31.2	26.8	22.3	20.1	15.6	15.6	31.2	40.2	46.9	49.1
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)