

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: P193595

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193595
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-SL2-8030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 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: 28456 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

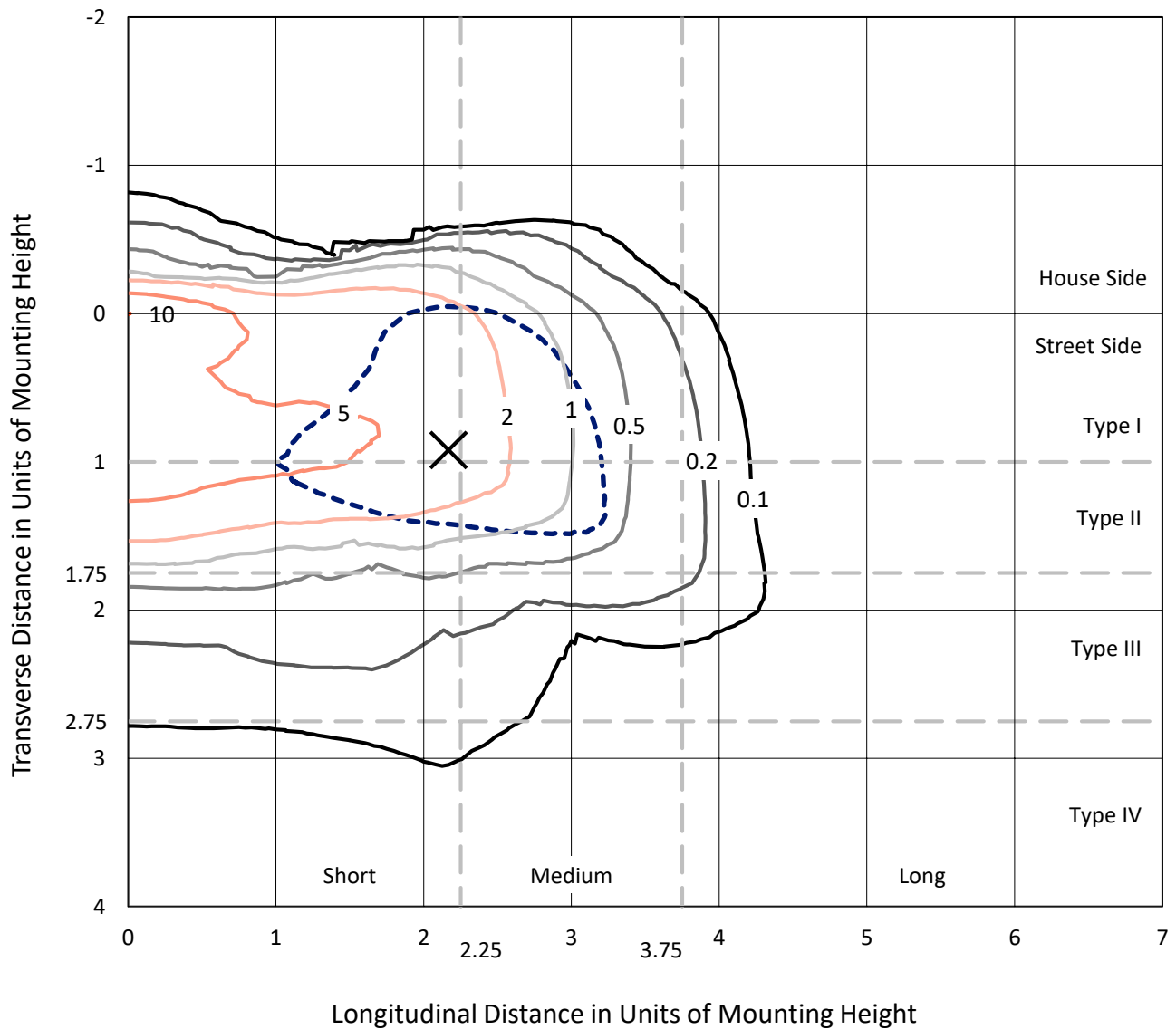
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

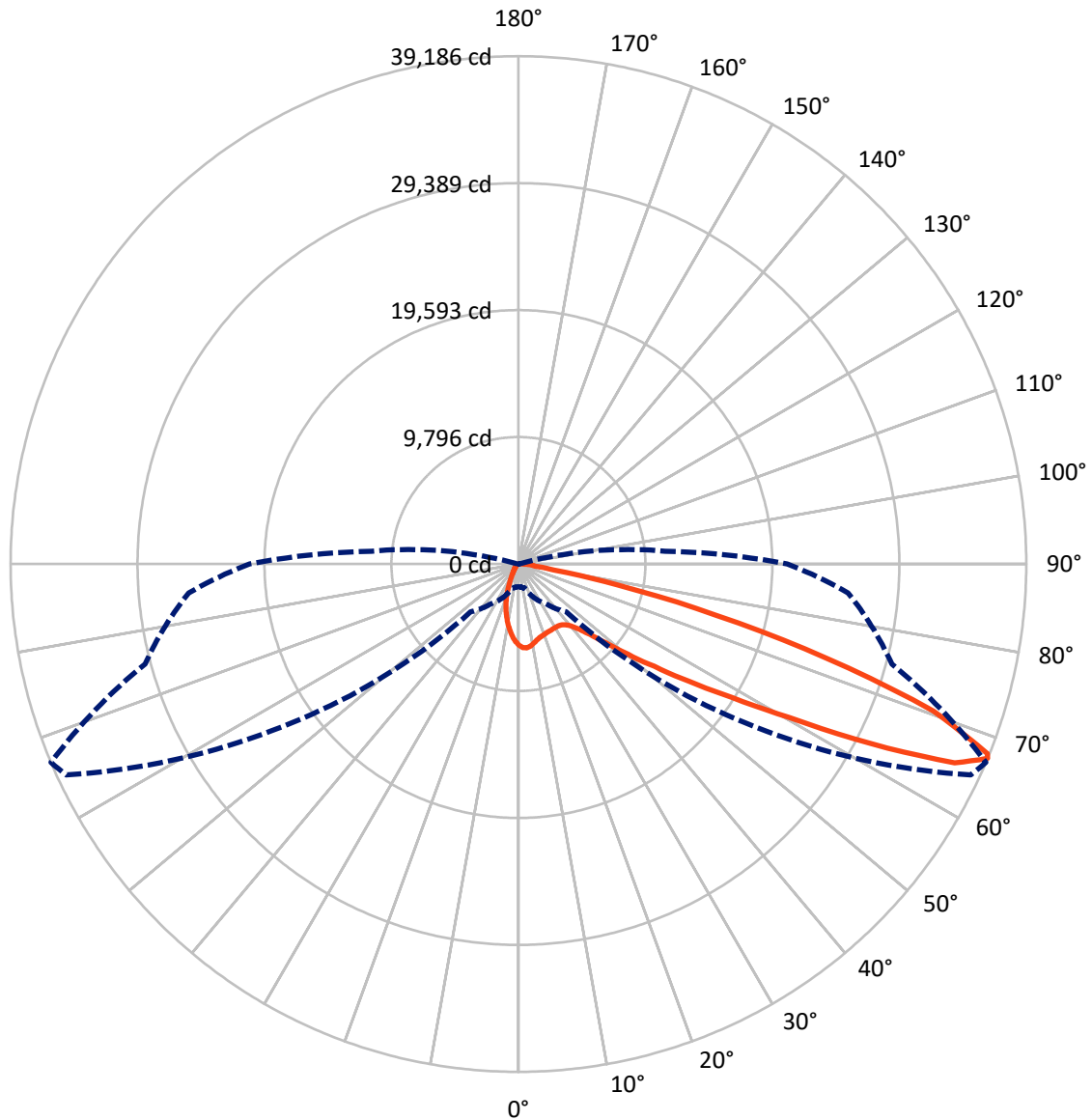
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	2954.6	0.0	2954.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	25501.4	0.0	25501.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	28456.0	0.0	28456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.6	1.8
10°-20°	1086.8	3.8
20°-30°	1580.2	5.6
30°-40°	2465.1	8.7
40°-50°	4366.8	15.3
50°-60°	6910.0	24.3
60°-70°	7914.5	27.8
70°-80°	3282.9	11.5
80°-90°	339.1	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°	28456.0	100.0
0°-180°	28456.0	100.0

Coefficient of Utilization



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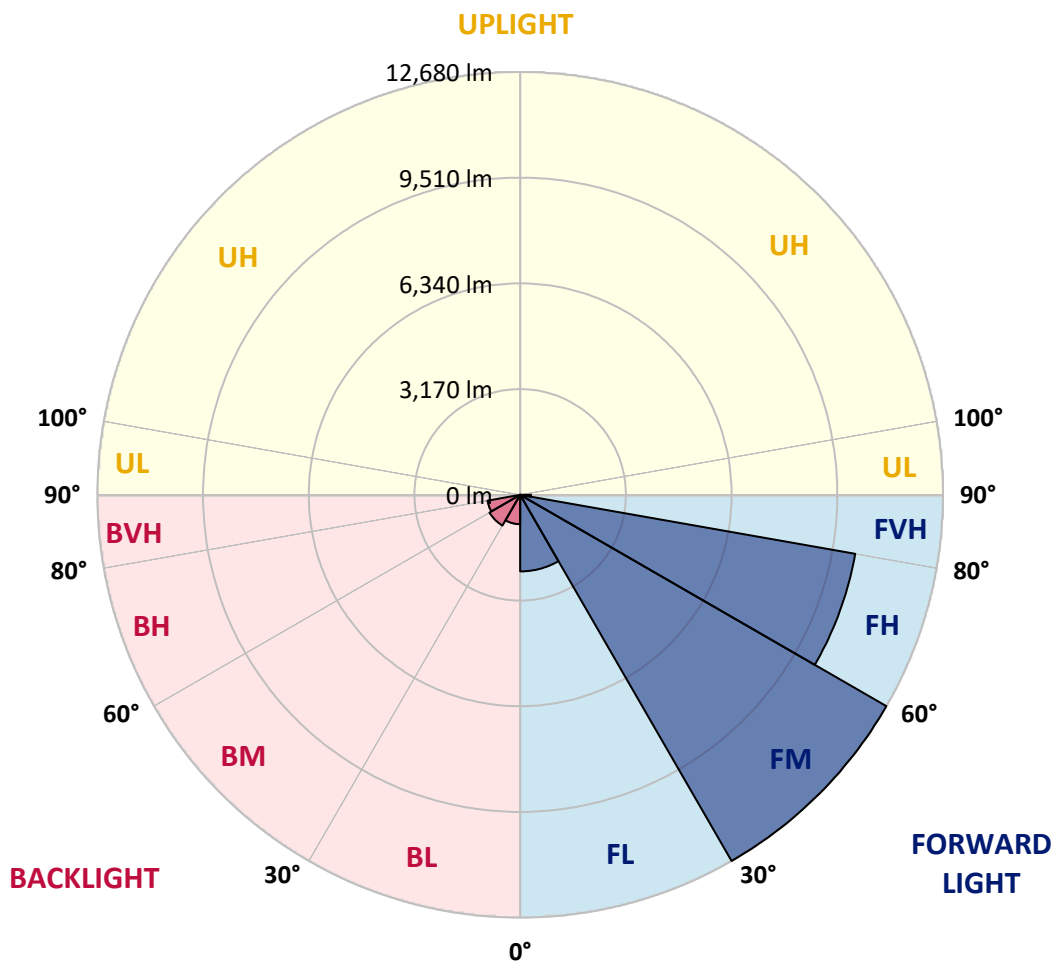
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2296.0	8.1			
FM (30°-60°)	12680.1	44.6			
FH (60°-80°)	10201.6	35.9			G4/12000
FVH (80°-90°)	323.8	1.1			G3/500
BL (0°-30°)	881.7	3.1	B2/1000		
BM (30°-60°)	1061.9	3.7	B2/2500		
BH (60°-80°)	995.8	3.5	B2/1000		G2/1000
BVH (80°-90°)	15.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6
2.5°	6488.0	6501.3	6499.7	6509.6	6532.9	6534.5	6511.3	6466.5	6456.5	6398.4	6297.2
5°	5983.5	6021.7	6044.9	6139.5	6245.7	6373.5	6469.8	6504.6	6499.7	6458.2	6305.5
7.5°	5407.5	5445.7	5472.3	5583.5	5724.6	5943.6	6194.3	6400.1	6418.3	6463.2	6298.8
10°	5024.1	5030.8	5067.3	5173.5	5321.2	5545.3	5844.1	6204.2	6259.0	6423.3	6282.2
12.5°	4708.8	4713.8	4761.9	4876.4	5034.1	5259.8	5573.5	5990.1	6074.8	6373.5	6278.9
15°	4484.7	4503.0	4546.1	4665.6	4833.3	5057.3	5379.3	5832.4	5933.7	6355.3	6308.8
17.5°	4410.0	4429.9	4443.2	4529.5	4682.2	4901.3	5231.6	5729.5	5844.1	6365.2	6366.9
20°	4488.0	4503.0	4473.1	4494.7	4589.3	4785.1	5107.1	5641.6	5777.7	6376.8	6441.6
22.5°	4778.5	4785.1	4703.8	4609.2	4592.6	4700.5	5009.2	5571.9	5717.9	6408.4	6529.5
25°	5276.4	5264.8	5132.0	4927.9	4735.3	4685.5	4951.1	5528.7	5688.0	6441.6	6620.8
27.5°	5877.3	5893.9	5711.3	5414.2	5047.4	4785.1	4942.8	5510.4	5674.8	6464.8	6700.5
30°	6607.6	6630.8	6421.7	6048.2	5522.1	5030.8	5019.2	5507.1	5666.5	6449.9	6707.1
32.5°	7352.8	7381.0	7216.7	6831.6	6156.1	5442.4	5191.8	5543.6	5683.1	6398.4	6669.0
35°	8132.9	8172.7	8063.2	7732.9	7015.9	6036.6	5495.5	5654.8	5761.1	6393.4	6630.8
37.5°	9210.1	9246.6	9040.8	8690.6	8056.5	6833.3	5983.5	5864.0	5945.3	6473.1	6640.7
40°	10818.4	10813.4	10282.3	9746.2	9200.1	7845.7	6669.0	6242.4	6283.9	6713.8	6763.6
42.5°	12571.1	12562.8	11777.7	10962.8	10469.8	9092.2	7570.2	6896.4	6868.1	7156.9	7082.2
45°	13922.2	13920.5	13279.8	12362.0	11998.5	10523.0	8735.4	7805.9	7762.8	7877.3	7669.8
47.5°	14498.1	14508.1	14186.1	13540.4	13693.1	12458.3	10204.3	9123.8	9059.0	9012.6	8697.2
50°	14050.0	14069.9	14096.4	13970.3	14936.3	15059.1	12174.4	10981.1	10949.5	10742.0	10249.1
52.5°	12586.1	12687.3	12999.3	13399.3	15367.8	17555.4	15263.3	13288.1	13118.8	12898.1	12355.3
55°	10119.6	10230.8	10823.4	11794.3	14725.5	19195.3	19592.0	16262.4	15980.3	15321.4	14537.9
57.5°	6697.2	6869.8	7729.6	8964.4	12859.9	19459.2	23910.7	20390.3	19407.7	17603.5	16720.5
60°	3689.7	3855.7	4788.4	5907.1	9288.1	18154.6	26815.3	25764.6	24028.5	20154.6	19371.2
62.5°	2272.2	2361.9	3050.7	4091.3	5570.2	14328.8	27416.1	32518.3	30508.3	23439.3	22572.9
65°	1809.2	1847.3	2184.3	3344.4	3993.4	8522.9	25475.8	37666.9	36996.3	27416.1	25439.3
67°	1756.0	1771.0	1930.3	2871.4	3764.4	5225.0	21343.0	38505.1	39185.6	29822.8	25529.0
67.5°	1767.7	1784.3	1935.3	2740.3	3757.7	4801.7	19918.9	38174.8	39034.5	30013.7	25132.3
70°	1704.6	1756.0	2215.8	2738.6	3573.5	3990.1	11928.8	33075.9	33970.6	27887.5	21324.8
72.5°	604.2	607.5	957.7	2215.8	3885.5	4033.2	5990.1	24247.6	24909.9	21333.1	15374.5
75°	358.5	305.4	318.7	630.7	3712.9	3917.1	3455.6	15494.0	15741.3	12224.2	7786.0
77.5°	247.3	215.8	222.4	278.8	1414.1	3862.3	2745.3	8079.8	7815.9	4287.2	1658.1
80°	141.1	124.5	132.8	244.0	514.5	3603.4	2589.2	3276.4	2793.4	727.0	458.1
82.5°	74.7	63.1	76.3	200.8	358.5	2245.7	2594.2	1583.4	1254.8	245.6	312.0
85°	26.6	21.6	36.5	137.8	239.0	688.8	2405.0	1331.1	1045.7	119.5	237.3
87.5°	5.0	5.0	14.9	56.4	96.3	210.8	1422.4	790.1	529.5	71.4	162.7
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°	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6
2.5°	6255.7	6184.3	6088.0	5970.2	5830.8	5708.0	5616.7	5522.1	5502.1	5468.9	5464.0
5°	6214.2	6091.4	5852.4	5578.5	5286.4	5022.5	4808.4	4617.5	4532.8	4459.8	4451.5
7.5°	6152.8	5968.5	5561.9	5120.4	4664.0	4249.0	3897.1	3648.2	3419.1	3309.6	3293.0
10°	6081.4	5817.5	5234.9	4622.5	3991.8	3405.9	2883.0	2444.8	2179.3	2021.6	2001.7
12.5°	6015.0	5669.8	4901.3	4106.3	3268.1	2484.7	1812.5	1394.2	1115.4	1002.5	989.2
15°	5983.5	5550.3	4589.3	3578.5	2511.2	1581.8	990.9	766.8	675.5	649.0	647.3
17.5°	5980.2	5449.0	4283.9	3032.4	1759.4	919.5	645.7	589.2	571.0	564.3	564.3
20°	5978.5	5352.8	3978.5	2466.4	1117.0	612.5	537.8	524.5	511.2	502.9	502.9
22.5°	5996.8	5266.5	3659.8	1888.8	703.7	496.3	473.0	459.8	443.2	431.5	429.9
25°	6015.0	5200.1	3334.5	1344.4	509.6	431.5	408.3	390.0	366.8	351.9	350.2
27.5°	6018.3	5117.1	2985.9	899.6	426.6	376.8	346.9	318.7	292.1	277.2	275.5
30°	5968.5	4977.7	2599.2	607.5	376.8	327.0	287.1	257.3	232.4	220.7	220.7
32.5°	5870.6	4805.0	2174.3	458.1	335.3	280.5	237.3	209.1	192.5	187.6	185.9
35°	5782.6	4619.1	1737.8	388.4	300.4	237.3	194.2	175.9	166.0	164.3	162.7
37.5°	5731.2	4469.8	1327.8	351.9	267.2	199.2	164.3	151.0	146.1	142.7	144.4
40°	5771.0	4345.3	980.9	322.0	234.0	166.0	139.4	132.8	127.8	126.1	126.1
42.5°	5945.3	4323.7	728.6	295.4	202.5	137.8	121.2	116.2	112.9	111.2	112.9
45°	6403.4	4456.5	566.0	270.5	171.0	116.2	102.9	101.2	99.6	99.6	99.6
47.5°	7092.2	4730.4	471.4	242.3	142.7	99.6	89.6	88.0	86.3	88.0	88.0
50°	8259.0	5231.6	421.6	214.1	117.8	84.6	76.3	76.3	76.3	76.3	78.0
52.5°	10033.3	6217.5	388.4	185.9	96.3	71.4	64.7	64.7	66.4	66.4	68.1
55°	12010.1	7525.4	358.5	157.7	81.3	59.8	53.1	54.8	56.4	58.1	58.1
57.5°	14154.5	8974.4	333.6	129.5	69.7	48.1	44.8	46.5	48.1	51.5	51.5
60°	16742.1	10542.9	297.1	101.2	58.1	38.2	34.9	38.2	43.2	46.5	48.1
62.5°	19583.7	12059.9	250.6	79.7	48.1	29.9	28.2	34.9	41.5	44.8	46.5
65°	21525.6	12536.3	192.5	64.7	36.5	21.6	23.2	31.5	39.8	44.8	44.8
67°	20738.9	11366.1	157.7	54.8	29.9	16.6	21.6	31.5	39.8	43.2	44.8
67.5°	20192.8	10908.0	151.0	53.1	28.2	16.6	21.6	31.5	39.8	44.8	44.8
70°	16430.1	8194.3	126.1	39.8	23.2	14.9	18.3	29.9	38.2	43.2	43.2
72.5°	11415.9	5052.3	112.9	28.2	19.9	13.3	16.6	28.2	36.5	41.5	43.2
75°	5427.5	1829.1	96.3	21.6	18.3	11.6	14.9	28.2	36.5	41.5	41.5
77.5°	1107.1	424.9	78.0	18.3	14.9	11.6	13.3	26.6	34.9	39.8	39.8
80°	363.5	164.3	58.1	16.6	14.9	11.6	13.3	24.9	34.9	38.2	39.8
82.5°	262.2	83.0	38.2	16.6	14.9	11.6	11.6	24.9	33.2	38.2	38.2
85°	200.8	58.1	24.9	16.6	14.9	11.6	11.6	23.2	31.5	36.5	36.5
87.5°	132.8	23.2	19.9	16.6	14.9	11.6	11.6	23.2	29.9	34.9	36.5
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)