

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: P191048

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191048
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-10-LED-E1-SL2-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 800mA 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: 40332.9 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 419
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

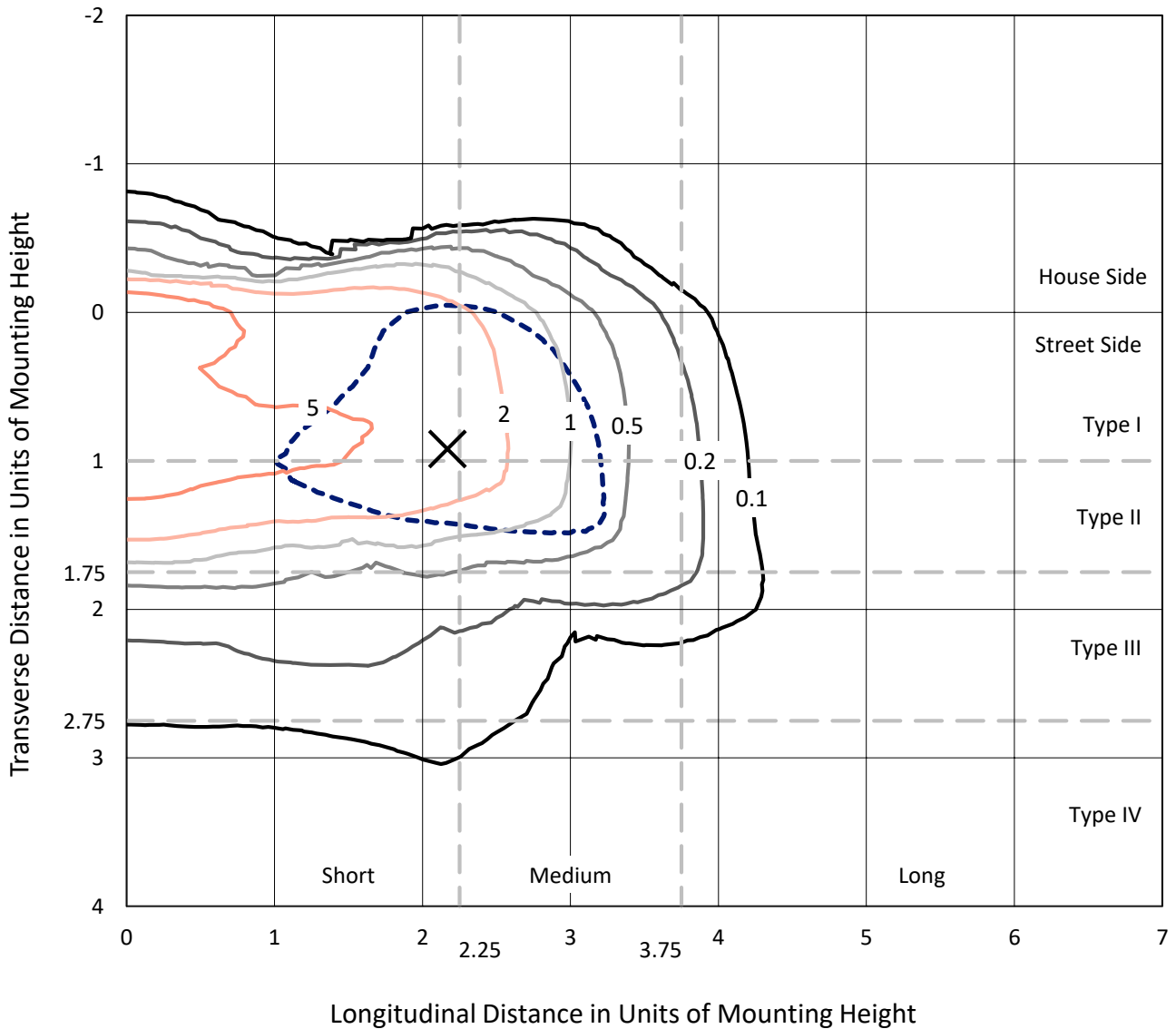


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Iso-Footcandle Lines of Horizontal Illumination

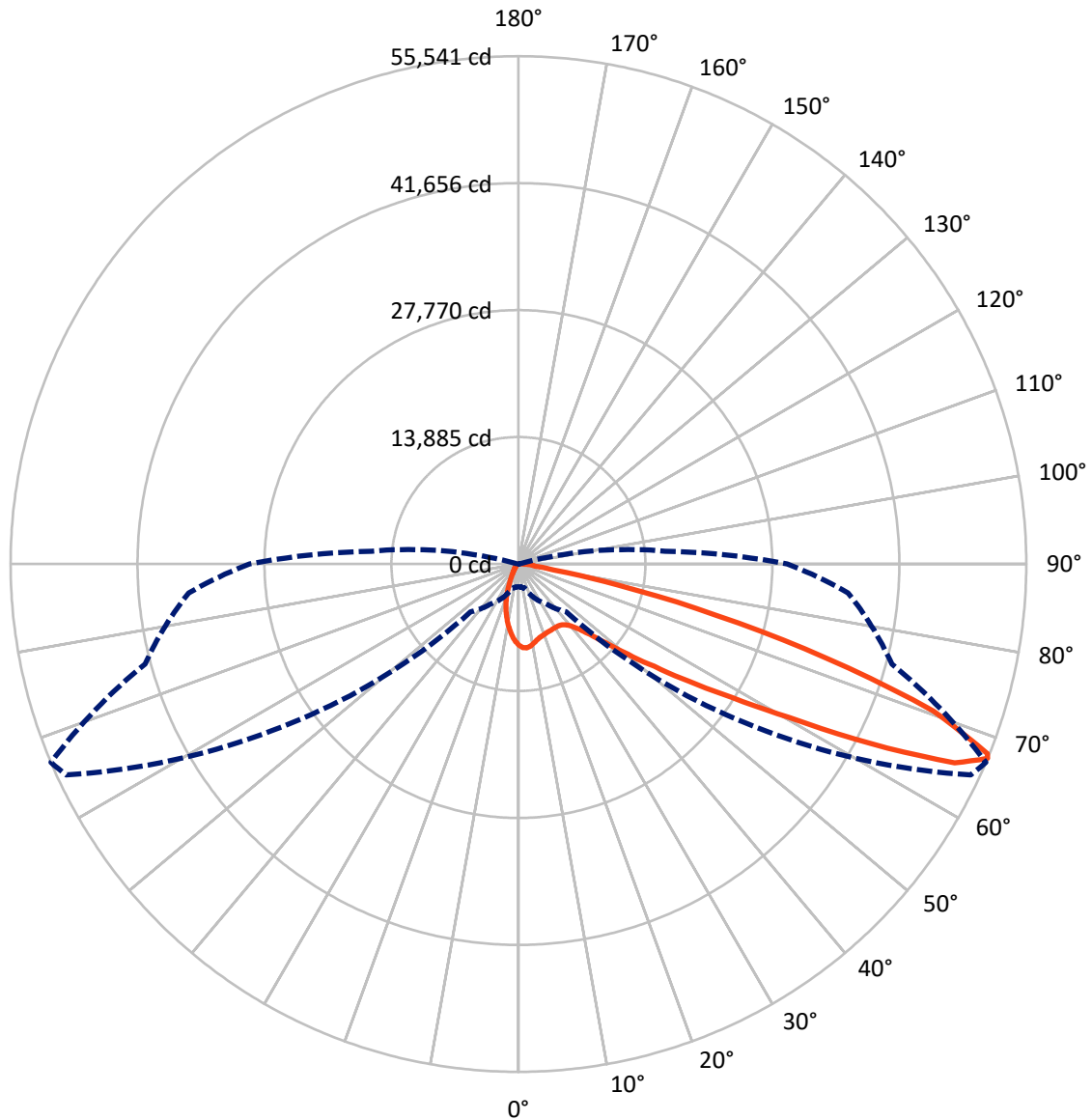
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 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	4187.8	0.0	4187.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	36145.2	0.0	36145.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	40332.9	0.0	40332.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	723.8	1.8
10°-20°	1540.4	3.8
20°-30°	2239.7	5.6
30°-40°	3494.0	8.7
40°-50°	6189.4	15.3
50°-60°	9794.1	24.3
60°-70°	11217.8	27.8
70°-80°	4653.1	11.5
80°-90°	480.6	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°	40332.9	100.0
0°-180°	40332.9	100.0



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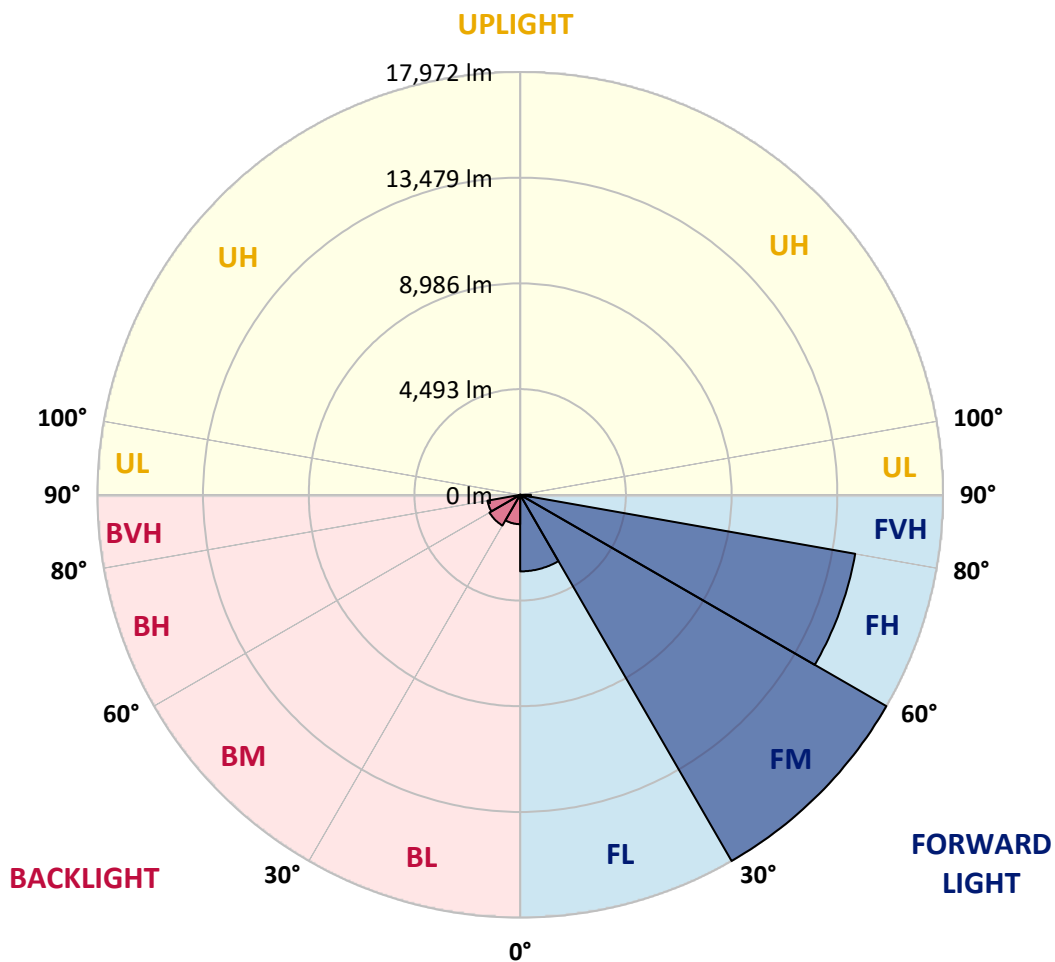
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3254.3	8.1			
FM (30°-60°)	17972.4	44.6			
FH (60°-80°)	14459.5	35.9			G5
FVH (80°-90°)	459.0	1.1			G3/500
BL (0°-30°)	1249.6	3.1	B3/2500		
BM (30°-60°)	1505.1	3.7	B2/2500		
BH (60°-80°)	1411.4	3.5	B3/2500		G3/2500
BVH (80°-90°)	21.6	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°	8894.9	8894.9	8894.9	8894.9	8894.9	8894.9	8894.9	8894.9	8894.9	8894.9	8894.9
2.5°	9196.0	9214.8	9212.5	9226.6	9259.5	9261.9	9229.0	9165.4	9151.3	9069.0	8925.5
5°	8480.9	8535.0	8567.9	8702.0	8852.5	9033.7	9170.1	9219.5	9212.5	9153.7	8937.2
7.5°	7664.6	7718.7	7756.3	7913.9	8113.8	8424.4	8779.6	9071.3	9097.2	9160.7	8927.8
10°	7121.1	7130.5	7182.2	7332.8	7542.2	7859.7	8283.2	8793.7	8871.3	9104.3	8904.3
12.5°	6674.1	6681.2	6749.4	6911.7	7135.2	7455.2	7899.7	8490.3	8610.3	9033.7	8899.6
15°	6356.5	6382.4	6443.6	6613.0	6850.6	7168.1	7624.6	8266.8	8410.3	9007.8	8941.9
17.5°	6250.6	6278.9	6297.7	6420.0	6636.5	6947.0	7415.2	8120.9	8283.2	9021.9	9024.3
20°	6361.2	6382.4	6340.0	6370.6	6504.7	6782.4	7238.7	7996.2	8189.1	9038.4	9130.1
22.5°	6773.0	6782.4	6667.1	6533.0	6509.4	6662.4	7099.9	7897.4	8104.4	9083.1	9254.8
25°	7478.7	7462.2	7274.0	6984.6	6711.8	6641.2	7017.5	7836.2	8062.1	9130.1	9384.2
27.5°	8330.3	8353.8	8095.0	7674.0	7154.0	6782.4	7005.8	7810.3	8043.3	9163.1	9497.2
30°	9365.4	9398.4	9101.9	8572.6	7826.8	7130.5	7114.0	7805.6	8031.5	9141.9	9506.6
32.5°	10421.7	10461.7	10228.8	9682.9	8725.5	7714.0	7358.7	7857.4	8055.0	9069.0	9452.5
35°	11527.3	11583.8	11428.6	10960.4	9944.1	8556.2	7789.3	8015.0	8165.6	9061.9	9398.4
37.5°	13054.2	13105.9	12814.2	12317.9	11419.2	9685.3	8480.9	8311.5	8426.8	9174.8	9412.5
40°	15333.7	15326.7	14573.9	13814.0	13040.1	11120.4	9452.5	8847.8	8906.6	9516.0	9586.6
42.5°	17818.1	17806.3	16693.5	15538.4	14839.7	12887.1	10729.8	9774.7	9734.7	10144.1	10038.2
45°	19732.9	19730.6	18822.5	17521.6	17006.4	14915.0	12381.3	11063.9	11002.8	11165.1	10871.0
47.5°	20549.3	20563.5	20107.0	19191.9	19408.3	17658.1	14463.3	12931.8	12840.1	12774.2	12327.3
50°	19914.1	19942.3	19980.0	19801.2	21170.4	21344.5	17255.7	15564.3	15519.6	15225.5	14526.8
52.5°	17839.2	17982.7	18425.0	18991.9	21782.0	24882.7	21633.8	18834.3	18594.4	18281.5	17512.2
55°	14343.3	14500.9	15340.8	16717.1	20871.6	27206.9	27769.2	23050.0	22650.1	21716.1	20605.8
57.5°	9492.5	9737.1	10955.7	12706.0	18227.3	27581.0	33890.5	28900.7	27508.1	24950.9	23699.3
60°	5229.6	5464.9	6787.1	8372.6	13164.8	25731.9	38007.4	36518.2	34057.5	28566.7	27456.3
62.5°	3220.6	3347.6	4323.9	5799.0	7895.0	20309.4	38859.0	46090.7	43241.8	33222.4	31994.3
65°	2564.2	2618.3	3096.0	4740.4	5660.2	12080.2	36108.9	53388.2	52437.8	38859.0	36057.2
67°	2488.9	2510.1	2736.0	4069.9	5335.5	7405.8	30251.1	54576.2	55540.7	42270.2	36184.2
67.5°	2505.4	2528.9	2743.0	3884.0	5326.1	6805.9	28232.6	54108.1	55326.7	42540.7	35621.9
70°	2416.0	2488.9	3140.7	3881.7	5064.9	5655.5	16907.6	46881.1	48149.1	39527.1	30225.2
72.5°	856.3	861.0	1357.5	3140.7	5507.3	5716.7	8490.3	34368.1	35306.7	30237.0	21791.4
75°	508.1	432.9	451.7	894.0	5262.6	5552.0	4898.0	21960.8	22311.4	17326.3	11035.7
77.5°	350.6	305.9	315.3	395.3	2004.4	5474.3	3891.1	11452.1	11078.0	6076.5	2350.1
80°	200.0	176.5	188.2	345.9	729.3	5107.3	3669.9	4643.9	3959.3	1030.4	649.3
82.5°	105.9	89.4	108.2	284.7	508.1	3183.0	3677.0	2244.4	1778.5	348.2	442.3
85°	37.6	30.6	51.8	195.3	338.8	976.3	3408.8	1886.7	1482.1	169.4	336.4
87.5°	7.1	7.1	21.2	80.0	136.5	298.8	2016.1	1119.8	750.4	101.2	230.6
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°	8894.9	8894.9	8894.9	8894.9	8894.9	8894.9	8894.9	8894.9	8894.9	8894.9	8894.9
2.5°	8866.6	8765.5	8629.1	8462.1	8264.4	8090.3	7960.9	7826.8	7798.6	7751.6	7744.6
5°	8807.8	8633.8	8295.0	7906.8	7492.8	7118.7	6815.3	6544.7	6424.7	6321.2	6309.5
7.5°	8720.8	8459.7	7883.3	7257.5	6610.6	6022.4	5523.7	5170.8	4846.2	4690.9	4667.4
10°	8619.7	8245.6	7419.9	6551.8	5657.8	4827.4	4086.4	3465.2	3088.9	2865.4	2837.2
12.5°	8525.6	8036.2	6947.0	5820.2	4632.1	3521.7	2568.9	1976.1	1580.9	1420.9	1402.1
15°	8480.9	7866.8	6504.7	5072.0	3559.4	2242.0	1404.4	1086.9	957.5	919.8	917.5
17.5°	8476.2	7723.4	6071.8	4298.0	2493.6	1303.3	915.1	835.1	809.3	799.8	799.8
20°	8473.8	7586.9	5639.0	3495.8	1583.2	868.1	762.2	743.4	724.6	712.8	712.8
22.5°	8499.7	7464.6	5187.3	2677.2	997.5	703.4	670.4	651.6	628.1	611.6	609.3
25°	8525.6	7370.5	4726.2	1905.6	722.2	611.6	578.7	552.8	519.9	498.7	496.3
27.5°	8530.3	7252.8	4232.2	1275.1	604.6	534.0	491.6	451.7	414.1	392.9	390.6
30°	8459.7	7055.2	3684.1	861.0	534.0	463.4	407.0	364.7	329.4	312.9	312.9
32.5°	8320.9	6810.6	3081.8	649.3	475.2	397.6	336.4	296.5	272.9	265.9	263.5
35°	8196.2	6547.1	2463.1	550.4	425.9	336.4	275.3	249.4	235.3	232.9	230.6
37.5°	8123.3	6335.3	1882.0	498.7	378.8	282.3	232.9	214.1	207.0	202.3	204.7
40°	8179.7	6158.9	1390.3	456.4	331.7	235.3	197.6	188.2	181.2	178.8	178.8
42.5°	8426.8	6128.3	1032.8	418.8	287.0	195.3	171.8	164.7	160.0	157.6	160.0
45°	9076.0	6316.5	802.2	383.5	242.3	164.7	145.9	143.5	141.2	141.2	141.2
47.5°	10052.3	6704.7	668.1	343.5	202.3	141.2	127.1	124.7	122.3	124.7	124.7
50°	11706.1	7415.2	597.5	303.5	167.0	120.0	108.2	108.2	108.2	108.2	110.6
52.5°	14221.0	8812.5	550.4	263.5	136.5	101.2	91.8	91.8	94.1	94.1	96.5
55°	17022.8	10666.3	508.1	223.5	115.3	84.7	75.3	77.6	80.0	82.3	82.3
57.5°	20062.3	12720.1	472.8	183.5	98.8	68.2	63.5	65.9	68.2	72.9	72.9
60°	23729.9	14943.3	421.1	143.5	82.3	54.1	49.4	54.1	61.2	65.9	68.2
62.5°	27757.5	17093.4	355.3	112.9	68.2	42.4	40.0	49.4	58.8	63.5	65.9
65°	30509.9	17768.7	272.9	91.8	51.8	30.6	32.9	44.7	56.5	63.5	63.5
67°	29394.8	16110.0	223.5	77.6	42.4	23.5	30.6	44.7	56.5	61.2	63.5
67.5°	28620.8	15460.8	214.1	75.3	40.0	23.5	30.6	44.7	56.5	63.5	63.5
70°	23287.7	11614.4	178.8	56.5	32.9	21.2	25.9	42.4	54.1	61.2	61.2
72.5°	16180.6	7161.1	160.0	40.0	28.2	18.8	23.5	40.0	51.8	58.8	61.2
75°	7692.8	2592.5	136.5	30.6	25.9	16.5	21.2	40.0	51.8	58.8	58.8
77.5°	1569.1	602.2	110.6	25.9	21.2	16.5	18.8	37.6	49.4	56.5	56.5
80°	515.2	232.9	82.3	23.5	21.2	16.5	18.8	35.3	49.4	54.1	56.5
82.5°	371.7	117.6	54.1	23.5	21.2	16.5	16.5	35.3	47.1	54.1	54.1
85°	284.7	82.3	35.3	23.5	21.2	16.5	16.5	32.9	44.7	51.8	51.8
87.5°	188.2	32.9	28.2	23.5	21.2	16.5	16.5	32.9	42.4	49.4	51.8
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)