

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: P191065

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191065
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-SL2-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 39133 lumens
Efficiency: N/A
Efficacy: 87.4 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

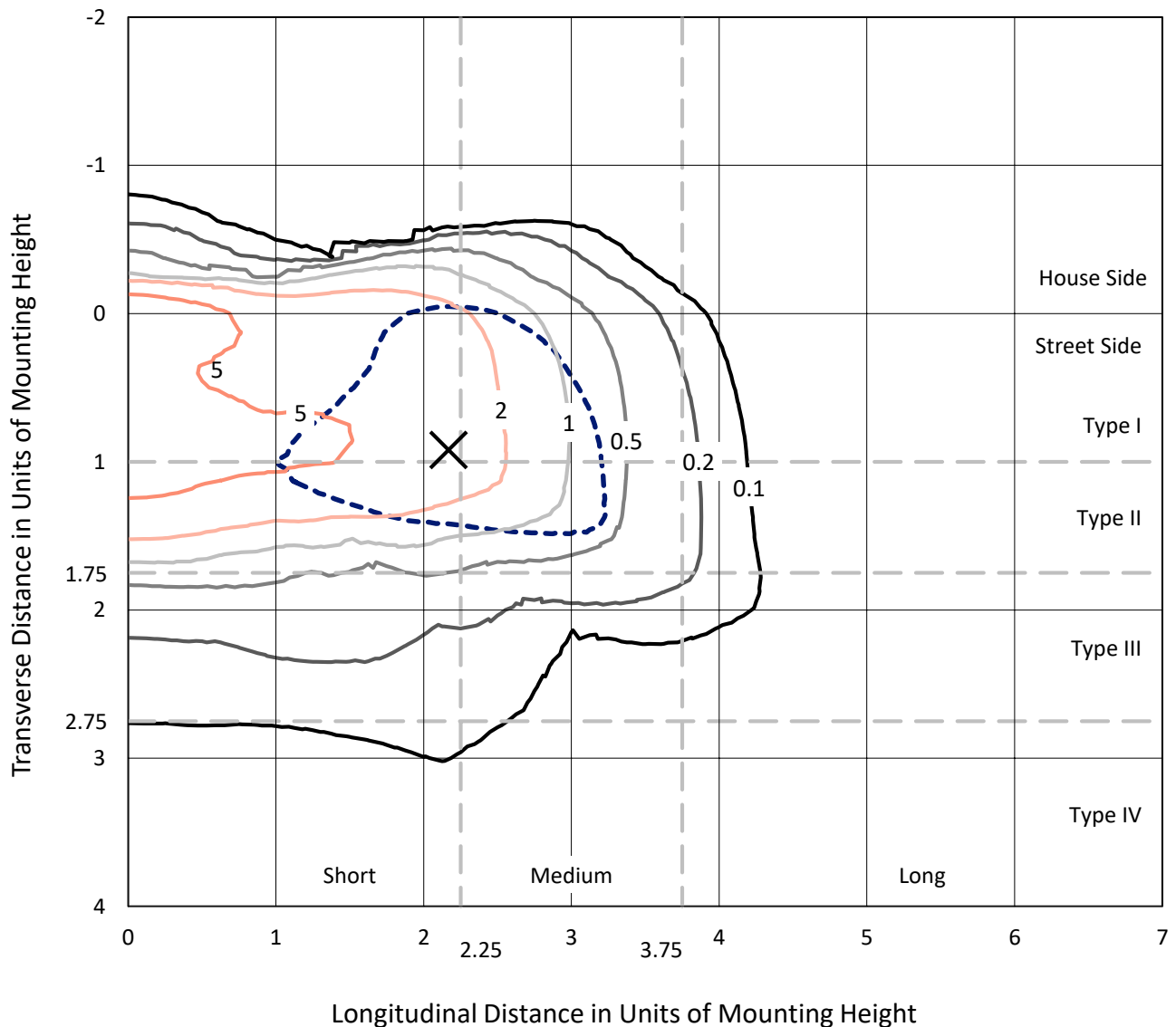


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Iso-Footcandle Lines of Horizontal Illumination

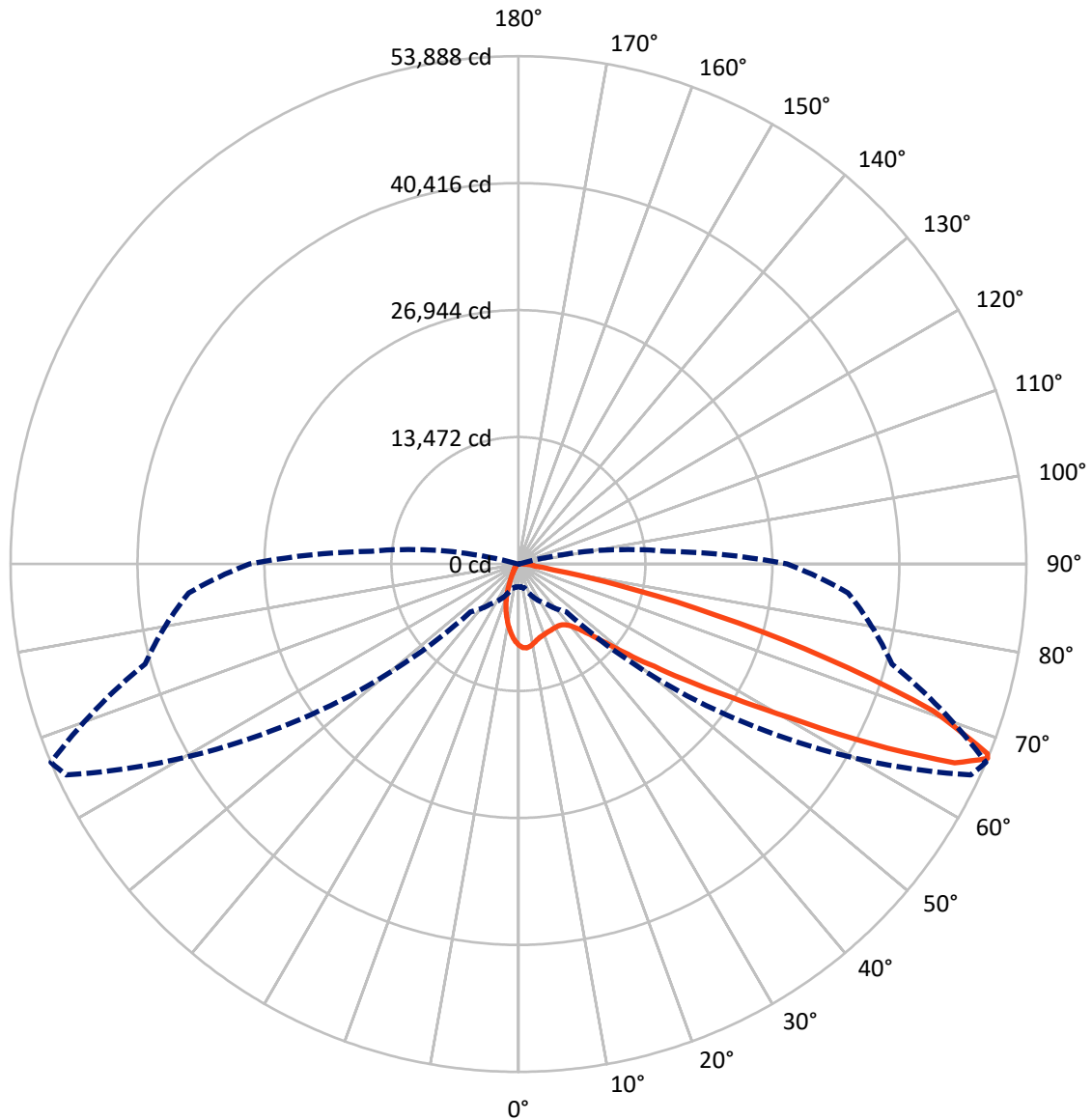
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 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	4063.2	0.0	4063.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	35069.8	0.0	35069.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	39133.0	0.0	39133.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	702.2	1.8
10°-20°	1494.6	3.8
20°-30°	2173.0	5.6
30°-40°	3390.0	8.7
40°-50°	6005.3	15.3
50°-60°	9502.7	24.3
60°-70°	10884.1	27.8
70°-80°	4514.6	11.5
80°-90°	466.3	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°	39133.0	100.0
0°-180°	39133.0	100.0



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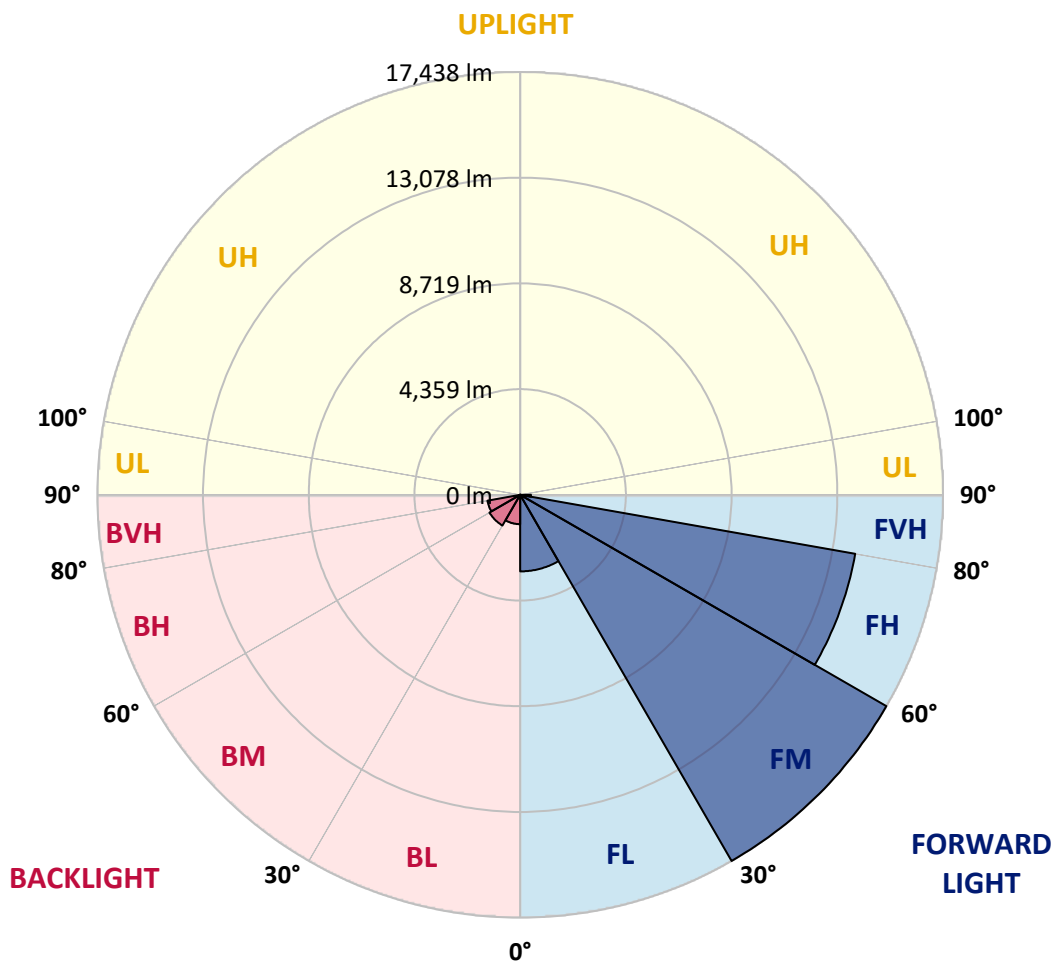
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3157.4	8.1			
FM (30°-60°)	17437.8	44.6			
FH (60°-80°)	14029.3	35.9			G5
FVH (80°-90°)	445.3	1.1			G3/500
BL (0°-30°)	1212.5	3.1	B3/2500		
BM (30°-60°)	1460.3	3.7	B2/2500		
BH (60°-80°)	1369.4	3.5	B3/2500		G3/2500
BVH (80°-90°)	21.0	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°	8630.2	8630.2	8630.2	8630.2	8630.2	8630.2	8630.2	8630.2	8630.2	8630.2	8630.2
2.5°	8922.4	8940.7	8938.4	8952.1	8984.1	8986.3	8954.4	8892.7	8879.1	8799.2	8659.9
5°	8228.5	8281.0	8313.0	8443.1	8589.2	8764.9	8897.3	8945.3	8938.4	8881.4	8671.3
7.5°	7436.5	7489.0	7525.5	7678.5	7872.4	8173.8	8518.4	8801.5	8826.5	8888.2	8662.2
10°	6909.2	6918.3	6968.5	7114.6	7317.8	7626.0	8036.8	8532.1	8607.4	8833.4	8639.4
12.5°	6475.6	6482.4	6548.6	6706.1	6922.9	7233.4	7664.8	8237.7	8354.0	8764.9	8634.8
15°	6167.4	6192.5	6251.9	6416.3	6646.7	6954.8	7397.7	8020.9	8160.1	8739.8	8676.0
17.5°	6064.7	6092.1	6110.4	6229.1	6439.1	6740.3	7194.5	7879.3	8036.8	8753.5	8755.8
20°	6172.0	6192.5	6151.4	6181.1	6311.2	6580.5	7023.4	7758.4	7945.5	8769.6	8858.5
22.5°	6571.4	6580.5	6468.7	6338.6	6315.8	6464.1	6888.7	7662.5	7863.3	8812.8	8979.5
25°	7256.2	7240.2	7057.6	6776.8	6512.1	6443.6	6808.8	7603.1	7822.3	8858.5	9105.1
27.5°	8082.4	8105.2	7854.2	7445.6	6941.2	6580.5	6797.4	7578.0	7804.0	8890.5	9214.6
30°	9086.8	9118.7	8831.1	8317.5	7594.0	6918.3	6902.4	7573.4	7792.5	8869.9	9223.7
32.5°	10111.7	10150.4	9924.5	9394.9	8465.9	7484.4	7139.8	7623.6	7815.4	8799.2	9171.3
35°	11184.4	11239.2	11088.6	10634.3	9648.3	8301.6	7557.5	7776.6	7922.7	8792.4	9118.7
37.5°	12665.8	12716.0	12432.9	11951.3	11079.5	9397.2	8228.5	8064.2	8176.0	8901.9	9132.4
40°	14877.6	14870.7	14140.4	13403.0	12652.1	10789.6	9171.3	8584.6	8641.7	9232.8	9301.3
42.5°	17288.0	17276.5	16196.9	15076.1	14398.2	12503.7	10410.7	9484.0	9445.1	9842.3	9739.6
45°	19146.0	19143.6	18262.5	17000.3	16500.4	14471.3	12013.0	10734.7	10675.4	10832.9	10547.6
47.5°	19937.9	19951.6	19508.8	18621.0	18830.9	17132.7	14033.0	12547.1	12458.1	12394.2	11960.4
50°	19321.7	19349.0	19385.5	19212.1	20540.5	20709.4	16742.4	15101.2	15057.9	14772.5	14094.6
52.5°	17308.4	17447.7	17876.8	18426.9	21134.0	24142.4	20990.2	18274.0	18041.2	17737.6	16991.2
55°	13916.6	14069.6	14884.4	16219.7	20250.6	26397.6	26943.1	22364.3	21976.3	21070.1	19992.8
57.5°	9210.0	9447.5	10629.8	12328.0	17685.1	26760.5	32882.2	28040.9	26689.7	24208.5	22994.3
60°	5074.0	5302.4	6585.1	8123.6	12773.1	24966.3	36876.7	35431.8	33044.3	27716.9	26639.5
62.5°	3124.8	3248.1	4195.3	5626.4	7660.2	19705.1	37702.9	44719.4	41955.3	32234.0	31042.5
65°	2487.9	2540.5	3003.8	4599.3	5491.8	11720.9	35034.6	51799.9	50877.7	37702.9	34984.4
67°	2414.9	2435.4	2654.6	3948.8	5176.7	7185.4	29351.1	52952.5	53888.4	41012.6	35107.7
67.5°	2430.9	2453.8	2661.4	3768.4	5167.6	6603.4	27392.7	52498.3	53680.7	41275.1	34562.1
70°	2344.2	2414.9	3047.2	3766.2	4914.3	5487.2	16404.6	45486.3	46716.6	38351.1	29326.1
72.5°	830.8	835.4	1317.0	3047.2	5343.4	5546.5	8237.7	33345.5	34256.3	29337.4	21143.2
75°	493.1	420.0	438.2	867.4	5106.1	5386.8	4752.2	21307.5	21647.6	16810.9	10707.3
77.5°	340.1	296.8	305.9	383.5	1944.7	5311.5	3775.3	11111.4	10748.5	5895.8	2280.3
80°	194.1	171.1	182.6	335.5	707.6	4955.4	3560.8	4505.7	3841.5	999.7	629.9
82.5°	102.7	86.7	105.0	276.2	493.1	3088.3	3567.6	2177.6	1725.6	337.8	429.1
85°	36.5	29.7	50.2	189.5	328.7	947.3	3307.4	1830.6	1438.0	164.4	326.4
87.5°	6.9	6.9	20.6	77.6	132.4	289.9	1956.1	1086.5	728.1	98.1	223.7
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°	8630.2	8630.2	8630.2	8630.2	8630.2	8630.2	8630.2	8630.2	8630.2	8630.2	8630.2
2.5°	8602.9	8504.7	8372.3	8210.3	8018.5	7849.6	7724.1	7594.0	7566.6	7520.9	7514.1
5°	8545.8	8376.9	8048.3	7671.6	7269.9	6907.0	6612.5	6350.0	6233.6	6133.2	6121.7
7.5°	8461.3	8208.0	7648.8	7041.6	6413.9	5843.3	5359.4	5017.1	4702.0	4551.4	4528.5
10°	8363.2	8000.3	7199.1	6356.8	5489.5	4683.8	3964.8	3362.1	2996.9	2780.2	2752.8
12.5°	8271.9	7797.1	6740.3	5647.0	4494.3	3417.0	2492.5	1917.3	1533.9	1378.6	1360.4
15°	8228.5	7632.8	6311.2	4921.1	3453.5	2175.3	1362.7	1054.6	928.9	892.4	890.2
17.5°	8224.0	7493.5	5891.3	4170.2	2419.5	1264.6	887.9	810.3	785.2	776.1	776.1
20°	8221.7	7361.2	5471.3	3391.8	1536.2	842.3	739.5	721.3	703.0	691.6	691.6
22.5°	8246.8	7242.5	5033.0	2597.5	967.8	682.5	650.5	632.3	609.5	593.4	591.2
25°	8271.9	7151.1	4585.6	1848.9	700.7	593.4	561.5	536.4	504.4	483.9	481.6
27.5°	8276.5	7037.1	4106.3	1237.2	586.7	518.1	477.0	438.2	401.7	381.2	378.9
30°	8208.0	6845.3	3574.5	835.4	518.1	449.7	394.9	353.8	319.6	303.6	303.6
32.5°	8073.3	6608.0	2990.1	629.9	461.0	385.8	326.4	287.6	264.7	257.9	255.6
35°	7952.3	6352.3	2389.8	534.1	413.2	326.4	267.1	241.9	228.2	226.0	223.7
37.5°	7881.6	6146.9	1826.1	483.9	367.4	273.9	226.0	207.8	200.9	196.3	198.6
40°	7936.4	5975.7	1349.0	442.8	321.8	228.2	191.7	182.6	175.7	173.5	173.5
42.5°	8176.0	5946.0	1002.1	406.3	278.4	189.5	166.6	159.8	155.2	152.9	155.2
45°	8806.1	6128.6	778.4	372.0	235.1	159.8	141.5	139.2	137.0	137.0	137.0
47.5°	9753.3	6505.3	648.2	333.3	196.3	137.0	123.3	121.0	118.7	121.0	121.0
50°	11357.9	7194.5	579.8	294.4	162.0	116.4	105.0	105.0	105.0	105.0	107.3
52.5°	13798.0	8550.3	534.1	255.6	132.4	98.1	89.0	89.0	91.3	91.3	93.6
55°	16516.5	10349.0	493.1	216.9	111.8	82.1	73.0	75.3	77.6	79.9	79.9
57.5°	19465.4	12341.7	458.8	178.0	95.9	66.2	61.6	63.9	66.2	70.8	70.8
60°	23024.0	14498.7	408.6	139.2	79.9	52.5	48.0	52.5	59.3	63.9	66.2
62.5°	26931.6	16584.9	344.6	109.6	66.2	41.1	38.8	48.0	57.1	61.6	63.9
65°	29602.3	17240.0	264.7	89.0	50.2	29.7	31.9	43.4	54.8	61.6	61.6
67°	28520.3	15630.8	216.9	75.3	41.1	22.8	29.7	43.4	54.8	59.3	61.6
67.5°	27769.3	15000.9	207.8	73.0	38.8	22.8	29.7	43.4	54.8	61.6	61.6
70°	22594.8	11268.9	173.5	54.8	31.9	20.6	25.1	41.1	52.5	59.3	59.3
72.5°	15699.3	6948.1	155.2	38.8	27.4	18.3	22.8	38.8	50.2	57.1	59.3
75°	7463.9	2515.3	132.4	29.7	25.1	16.0	20.6	38.8	50.2	57.1	57.1
77.5°	1522.5	584.3	107.3	25.1	20.6	16.0	18.3	36.5	48.0	54.8	54.8
80°	499.9	226.0	79.9	22.8	20.6	16.0	18.3	34.3	48.0	52.5	54.8
82.5°	360.6	114.2	52.5	22.8	20.6	16.0	16.0	34.3	45.6	52.5	52.5
85°	276.2	79.9	34.3	22.8	20.6	16.0	16.0	31.9	43.4	50.2	50.2
87.5°	182.6	31.9	27.4	22.8	20.6	16.0	16.0	31.9	41.1	48.0	50.2
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)