

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: STREETWORKS

Report Number: P191047

Luminaire Tested: **GAN-AF-09-LED-U-SL2-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191047
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: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-SL2-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 36428.3 lumens
Efficiency: N/A
Efficacy: 97.4 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

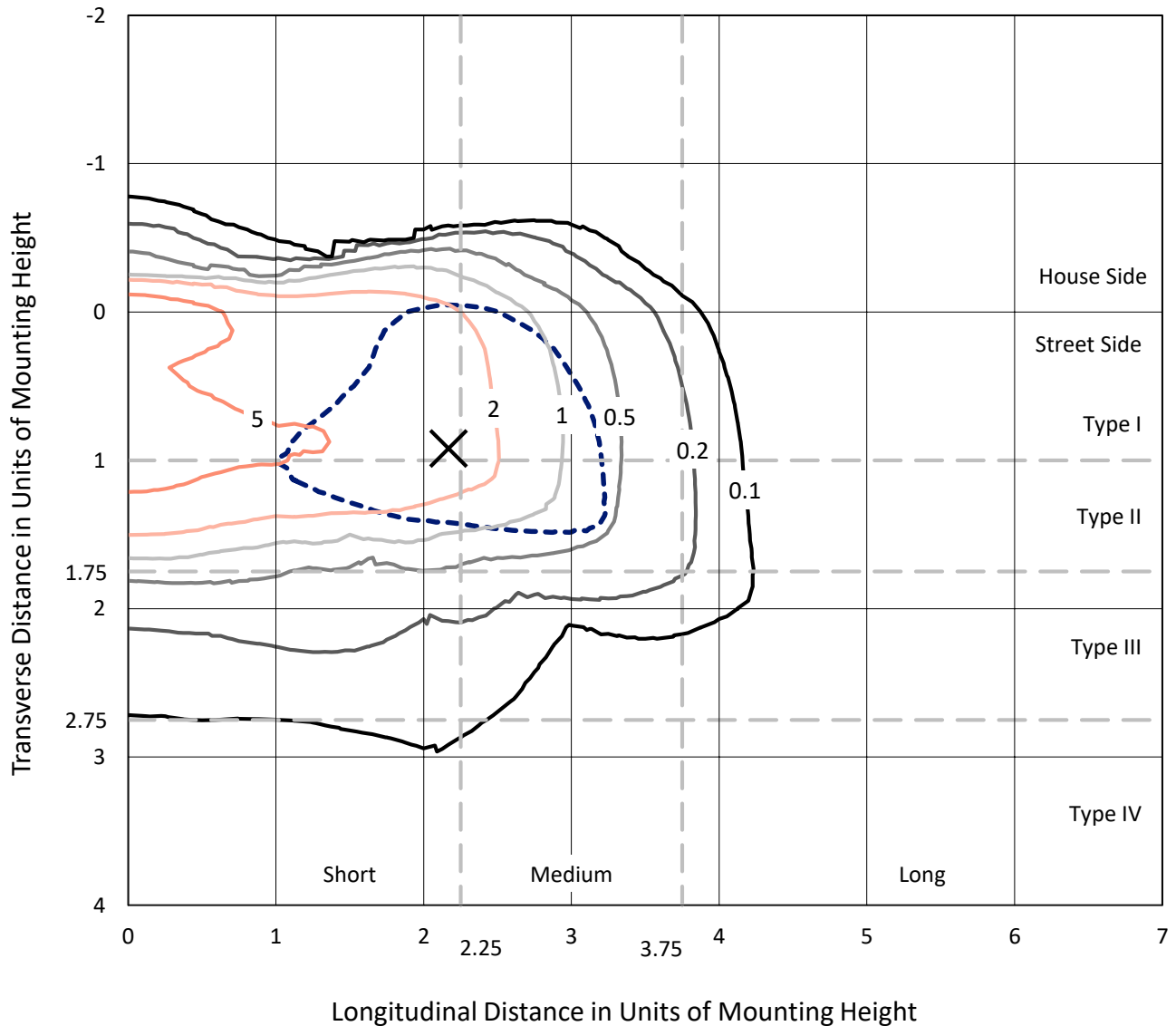
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

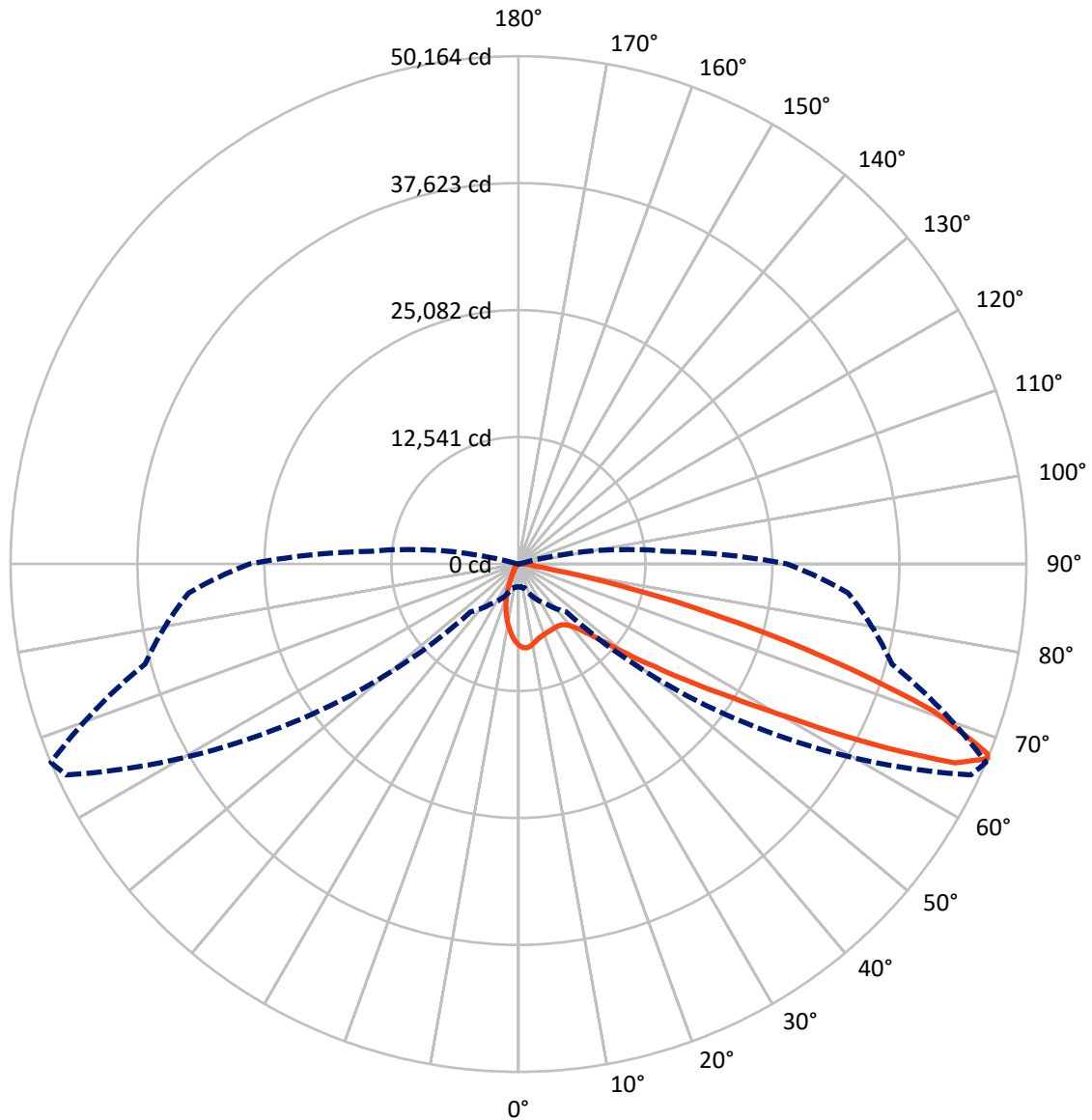
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 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	3782.3	0.0	3782.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	32646.0	0.0	32646.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	36428.3	0.0	36428.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.7	1.8
10°-20°	1391.3	3.8
20°-30°	2022.9	5.6
30°-40°	3155.7	8.7
40°-50°	5590.2	15.3
50°-60°	8846.0	24.3
60°-70°	10131.8	27.8
70°-80°	4202.6	11.5
80°-90°	434.1	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°	36428.3	100.0
0°-180°	36428.3	100.0

Coefficient of Utilization



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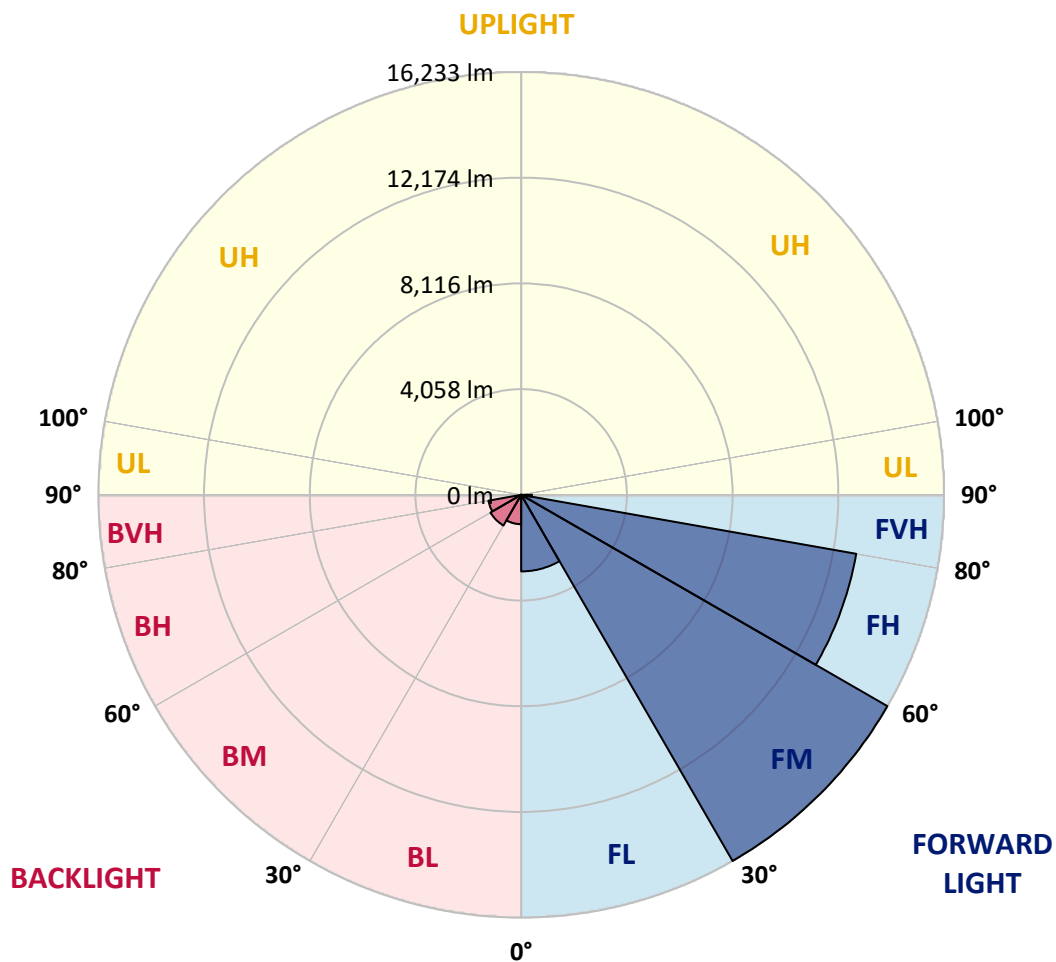
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2939.2	8.1			
FM	(30°-60°)	16232.5	44.6			
FH	(60°-80°)	13059.6	35.9			G5
FVH	(80°-90°)	414.6	1.1			G3/500
BL	(0°-30°)	1128.7	3.1	B3/2500		
BM	(30°-60°)	1359.3	3.7	B2/2500		
BH	(60°-80°)	1274.8	3.5	B3/2500		G3/2500
BVH	(80°-90°)	19.5	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°	8033.7	8033.7	8033.7	8033.7	8033.7	8033.7	8033.7	8033.7	8033.7	8033.7	8033.7
2.5°	8305.7	8322.7	8320.7	8333.4	8363.1	8365.3	8335.5	8278.1	8265.3	8191.0	8061.4
5°	7659.9	7708.7	7738.4	7859.5	7995.6	8159.2	8282.4	8327.0	8320.7	8267.5	8072.0
7.5°	6922.5	6971.4	7005.4	7147.8	7328.3	7608.8	7929.7	8193.1	8216.5	8273.9	8063.5
10°	6431.7	6440.2	6486.9	6622.9	6812.0	7098.9	7481.4	7942.4	8012.6	8222.9	8042.2
12.5°	6028.0	6034.4	6096.0	6242.6	6444.5	6733.5	7135.0	7668.3	7776.7	8159.2	8038.0
15°	5741.1	5764.5	5819.8	5972.7	6187.3	6474.2	6886.4	7466.5	7596.1	8135.7	8076.3
17.5°	5645.6	5671.0	5688.0	5798.5	5994.0	6274.5	6697.3	7334.8	7481.4	8148.5	8150.7
20°	5745.4	5764.5	5726.3	5753.9	5875.0	6125.7	6538.0	7222.1	7396.3	8163.4	8246.3
22.5°	6117.2	6125.7	6021.6	5900.5	5879.3	6017.4	6412.6	7132.8	7319.8	8203.8	8358.8
25°	6754.6	6739.8	6569.8	6308.4	6062.0	5998.3	6338.2	7077.6	7281.6	8246.3	8475.8
27.5°	7523.8	7545.1	7311.3	6931.0	6461.5	6125.7	6327.6	7054.3	7264.6	8276.0	8577.7
30°	8458.8	8488.4	8220.7	7742.7	7069.1	6440.2	6425.4	7050.0	7253.9	8256.8	8586.2
32.5°	9412.8	9448.9	9238.6	8745.6	7880.8	6967.1	6646.3	7096.7	7275.2	8191.0	8537.3
35°	10411.4	10462.4	10322.2	9899.3	8981.4	7727.8	7035.1	7239.1	7375.1	8184.6	8488.4
37.5°	11790.4	11837.2	11573.7	11125.3	10313.7	8747.7	7659.9	7506.8	7611.0	8286.6	8501.2
40°	13849.3	13843.0	13163.0	12476.7	11777.6	10043.8	8537.3	7991.3	8044.4	8594.7	8658.5
42.5°	16093.1	16082.4	15077.4	14034.2	13403.1	11639.5	9691.1	8828.5	8792.4	9162.1	9066.4
45°	17822.7	17820.5	17000.3	15825.4	15360.0	13471.1	11182.7	9992.8	9937.6	10084.1	9818.6
47.5°	18559.9	18572.7	18160.4	17333.9	17529.4	15948.6	13063.2	11680.0	11597.0	11537.6	11133.8
50°	17986.2	18011.7	18045.8	17884.2	19120.9	19278.1	15585.3	14057.5	14017.2	13751.5	13120.5
52.5°	16112.2	16241.8	16641.3	17153.4	19673.3	22473.8	19539.5	17011.0	16794.3	16511.7	15816.9
55°	12954.8	13097.1	13855.7	15098.7	18851.0	24573.0	25080.9	20818.6	20457.4	19613.9	18611.0
57.5°	8573.5	8794.4	9895.1	11476.0	16462.8	24910.9	30609.6	26102.9	24845.0	22535.4	21405.0
60°	4723.4	4935.8	6130.0	7562.1	11890.3	23240.8	34327.9	32982.9	30760.4	25801.2	24798.3
62.5°	2908.9	3023.5	3905.3	5237.6	7130.8	18343.2	35097.0	41628.7	39055.5	30006.1	28897.0
65°	2316.0	2364.9	2796.2	4281.5	5112.2	10910.7	32613.2	48219.8	47361.3	35097.0	32566.5
67°	2248.0	2267.2	2471.1	3675.9	4819.0	6688.8	27322.5	49292.7	50163.9	38178.1	32681.2
67.5°	2262.9	2284.1	2477.5	3508.0	4810.5	6147.0	25499.5	48869.9	49970.5	38422.3	32173.4
70°	2182.2	2248.0	2836.5	3505.9	4574.6	5108.0	15270.8	42342.6	43487.8	35700.5	27299.2
72.5°	773.5	777.6	1226.0	2836.5	4974.1	5163.2	7668.3	31040.9	31888.7	27309.8	19681.8
75°	459.0	391.0	408.0	807.4	4753.1	5014.5	4423.8	19834.8	20151.4	15649.0	9967.3
77.5°	316.6	276.2	284.7	357.0	1810.3	4944.3	3514.3	10343.5	10005.6	5488.3	2122.6
80°	180.7	159.4	170.0	312.3	658.7	4612.9	3314.7	4194.3	3576.0	930.7	586.5
82.5°	95.6	80.7	97.7	257.1	459.0	2874.8	3321.0	2027.1	1606.3	314.5	399.5
85°	34.0	27.6	46.7	176.4	306.0	881.8	3078.8	1704.0	1338.6	153.0	303.8
87.5°	6.3	6.3	19.1	72.2	123.3	269.9	1821.0	1011.4	677.8	91.3	208.3
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°	8033.7	8033.7	8033.7	8033.7	8033.7	8033.7	8033.7	8033.7	8033.7	8033.7	8033.7
2.5°	8008.3	7916.9	7793.7	7642.9	7464.4	7307.1	7190.2	7069.1	7043.6	7001.2	6994.7
5°	7955.2	7798.0	7492.0	7141.4	6767.4	6429.6	6155.5	5911.1	5802.8	5709.3	5698.7
7.5°	7876.5	7640.7	7120.1	6555.0	5970.7	5439.4	4988.9	4670.3	4377.0	4236.9	4215.6
10°	7785.2	7447.4	6701.6	5917.5	5110.0	4360.0	3690.7	3129.8	2789.8	2588.0	2562.5
12.5°	7700.2	7258.2	6274.5	5256.7	4183.7	3180.8	2320.3	1784.8	1427.8	1283.4	1266.4
15°	7659.9	7105.2	5875.0	4581.0	3214.8	2024.9	1268.5	981.6	864.8	830.7	828.7
17.5°	7655.6	6975.6	5484.0	3882.0	2252.2	1177.1	826.5	754.3	730.9	722.4	722.4
20°	7653.4	6852.4	5093.1	3157.4	1430.0	784.1	688.4	671.5	654.4	643.8	643.8
22.5°	7676.8	6742.0	4685.1	2417.9	900.9	635.4	605.6	588.6	567.3	552.4	550.3
25°	7700.2	6657.0	4268.7	1721.1	652.3	552.4	522.7	499.3	469.5	450.4	448.4
27.5°	7704.5	6550.7	3822.5	1151.6	546.1	482.3	444.1	408.0	374.0	354.9	352.7
30°	7640.7	6372.2	3327.4	777.6	482.3	418.6	367.5	329.4	297.5	282.6	282.6
32.5°	7515.3	6151.2	2783.4	586.5	429.2	359.1	303.8	267.7	246.4	240.1	237.9
35°	7402.7	5913.3	2224.6	497.2	384.6	303.8	248.6	225.3	212.5	210.3	208.3
37.5°	7336.8	5722.0	1699.8	450.4	342.1	255.0	210.3	193.3	187.0	182.7	184.8
40°	7387.9	5562.7	1255.8	412.2	299.6	212.5	178.5	170.0	163.6	161.5	161.5
42.5°	7611.0	5535.1	932.7	378.2	259.2	176.4	155.1	148.7	144.4	142.4	144.4
45°	8197.4	5705.0	724.6	346.4	218.8	148.7	131.8	129.6	127.5	127.5	127.5
47.5°	9079.2	6055.7	603.4	310.3	182.7	127.5	114.8	112.6	110.5	112.6	112.6
50°	10572.9	6697.3	539.7	274.0	150.9	108.3	97.7	97.7	97.7	97.7	99.8
52.5°	12844.3	7959.4	497.2	237.9	123.3	91.3	82.9	82.9	85.0	85.0	87.2
55°	15374.8	9633.7	459.0	201.8	104.1	76.5	68.0	70.1	72.2	74.4	74.4
57.5°	18120.1	11488.7	427.1	165.7	89.2	61.6	57.4	59.5	61.6	65.9	65.9
60°	21432.7	13496.6	380.3	129.6	74.4	48.9	44.6	48.9	55.2	59.5	61.6
62.5°	25070.3	15438.7	320.8	102.0	61.6	38.3	36.1	44.6	53.1	57.4	59.5
65°	27556.2	16048.5	246.4	82.9	46.7	27.6	29.8	40.4	51.0	57.4	57.4
67°	26549.1	14550.5	201.8	70.1	38.3	21.3	27.6	40.4	51.0	55.2	57.4
67.5°	25850.1	13964.0	193.3	68.0	36.1	21.3	27.6	40.4	51.0	57.4	57.4
70°	21033.2	10490.1	161.5	51.0	29.8	19.1	23.3	38.3	48.9	55.2	55.2
72.5°	14614.2	6467.8	144.4	36.1	25.5	17.0	21.3	36.1	46.7	53.1	55.2
75°	6948.0	2341.5	123.3	27.6	23.3	14.8	19.1	36.1	46.7	53.1	53.1
77.5°	1417.2	543.9	99.8	23.3	19.1	14.8	17.0	34.0	44.6	51.0	51.0
80°	465.3	210.3	74.4	21.3	19.1	14.8	17.0	31.9	44.6	48.9	51.0
82.5°	335.7	106.3	48.9	21.3	19.1	14.8	14.8	31.9	42.5	48.9	48.9
85°	257.1	74.4	31.9	21.3	19.1	14.8	14.8	29.8	40.4	46.7	46.7
87.5°	170.0	29.8	25.5	21.3	19.1	14.8	14.8	29.8	38.3	44.6	46.7
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)