

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: P191851

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-7050-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191851  
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-03-LED-E1-SL2-7050-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 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: 15052 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G3

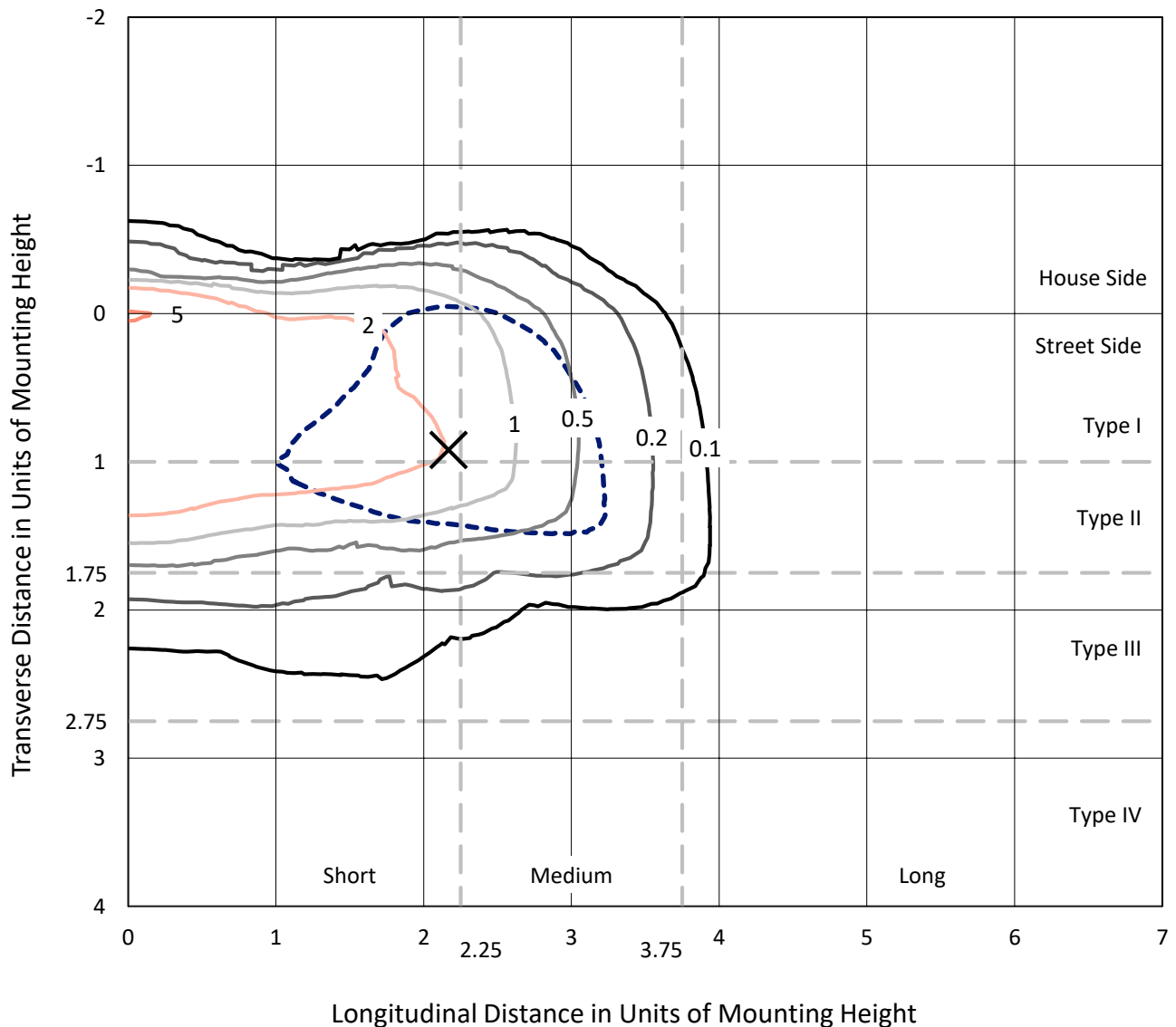
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

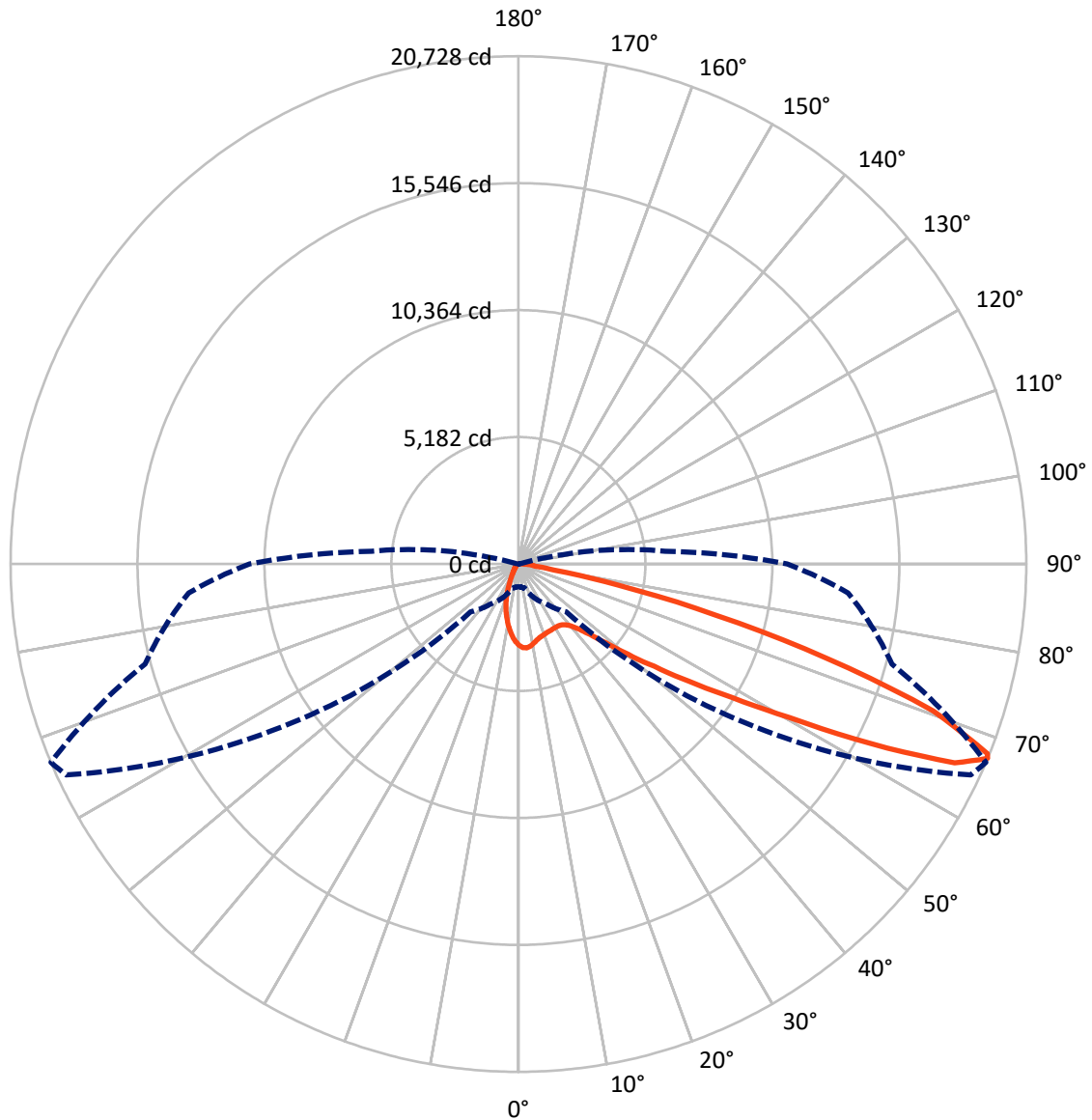


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type II - Short - Semi-Cutoff

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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
<b>House Side</b>	Lumens	1562.8	0.0	1562.8
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	13489.1	0.0	13489.1
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	15052.0	0.0	15052.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.1	1.8
10°-20°	574.9	3.8
20°-30°	835.8	5.6
30°-40°	1303.9	8.7
40°-50°	2309.9	15.3
50°-60°	3655.1	24.3
60°-70°	4186.4	27.8
70°-80°	1736.5	11.5
80°-90°	179.4	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°	15052.0	100.0
0°-180°	15052.0	100.0

**Coefficient of Utilization**



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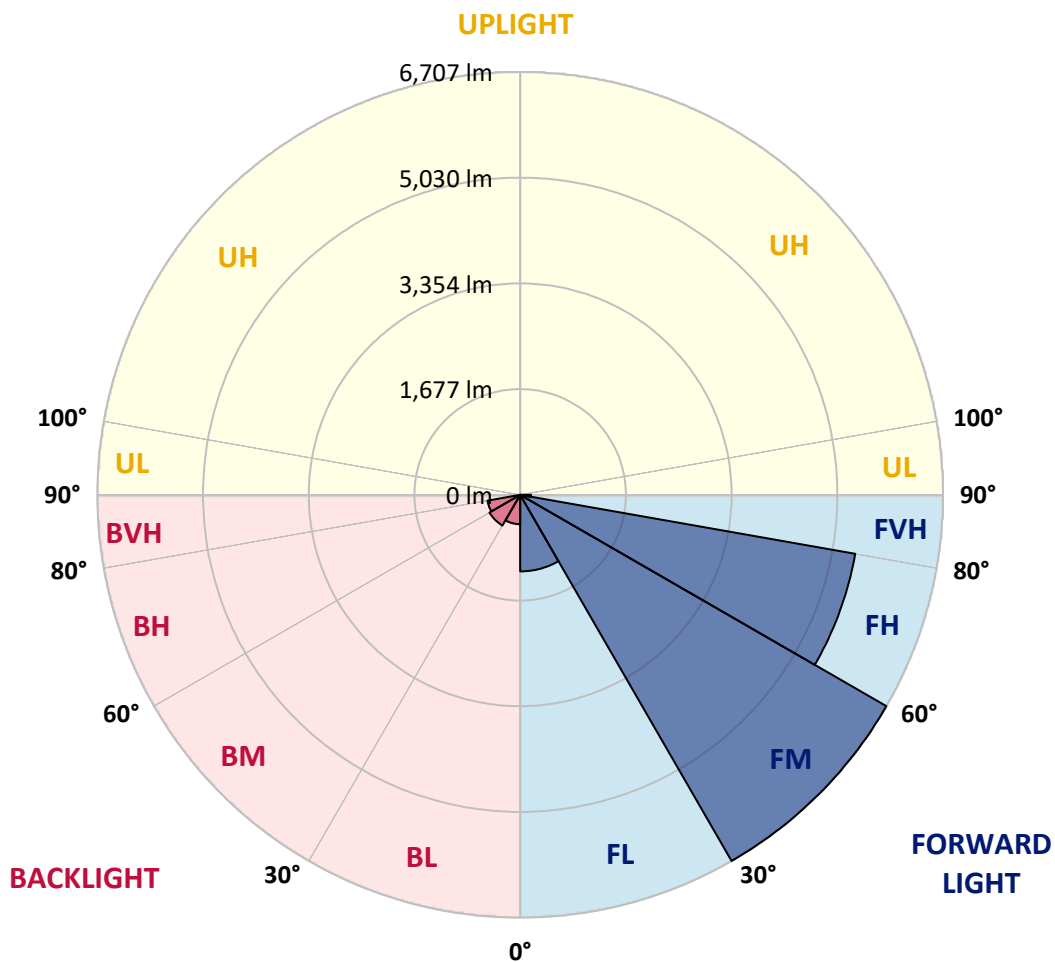
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1214.5	8.1			
FM	(30°-60°)	6707.2	44.6			
FH	(60°-80°)	5396.2	35.9			G3/7500
FVH	(80°-90°)	171.3	1.1			G2/225
BL	(0°-30°)	466.4	3.1	B1/500		
BM	(30°-60°)	561.7	3.7	B1/1000		
BH	(60°-80°)	526.7	3.5	B2/1000		G2/1000
BVH	(80°-90°)	8.1	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5
2.5°	3431.9	3438.9	3438.0	3443.3	3455.6	3456.5	3444.2	3420.5	3415.2	3384.5	3330.9
5°	3165.0	3185.2	3197.5	3247.5	3303.7	3371.3	3422.2	3440.7	3438.0	3416.1	3335.3
7.5°	2860.4	2880.5	2894.6	2953.4	3028.0	3143.9	3276.5	3385.4	3395.0	3418.7	3331.8
10°	2657.5	2661.1	2680.4	2736.6	2814.7	2933.2	3091.3	3281.8	3310.7	3397.7	3323.0
12.5°	2490.7	2493.4	2518.8	2579.4	2662.8	2782.2	2948.1	3168.5	3213.3	3371.3	3321.3
15°	2372.2	2381.9	2404.7	2467.9	2556.6	2675.1	2845.4	3085.1	3138.7	3361.7	3337.1
17.5°	2332.7	2343.2	2350.3	2395.9	2476.7	2592.6	2767.3	3030.7	3091.3	3366.9	3367.8
20°	2374.0	2381.9	2366.1	2377.5	2427.5	2531.1	2701.4	2984.1	3056.1	3373.1	3407.3
22.5°	2527.6	2531.1	2488.1	2438.1	2429.3	2486.3	2649.6	2947.3	3024.5	3389.8	3453.8
25°	2791.0	2784.9	2714.6	2606.6	2504.8	2478.4	2618.9	2924.4	3008.7	3407.3	3502.1
27.5°	3108.8	3117.6	3021.0	2863.9	2669.8	2531.1	2614.5	2914.8	3001.7	3419.6	3544.3
30°	3495.1	3507.4	3396.8	3199.2	2920.9	2661.1	2654.9	2913.0	2997.3	3411.7	3547.8
32.5°	3889.3	3904.2	3817.3	3613.6	3256.3	2878.8	2746.2	2932.3	3006.1	3384.5	3527.6
35°	4301.9	4323.0	4265.1	4090.4	3711.1	3193.1	2906.9	2991.2	3047.4	3381.9	3507.4
37.5°	4871.7	4891.0	4782.2	4596.9	4261.6	3614.5	3165.0	3101.8	3144.8	3424.0	3512.7
40°	5722.5	5719.8	5438.9	5155.3	4866.5	4150.1	3527.6	3302.0	3323.9	3551.3	3577.6
42.5°	6649.6	6645.2	6229.9	5798.8	5538.1	4809.4	4004.3	3647.9	3632.9	3785.7	3746.2
45°	7364.2	7363.4	7024.5	6539.0	6346.7	5566.2	4620.6	4129.0	4106.2	4166.7	4057.0
47.5°	7668.9	7674.1	7503.8	7162.3	7243.1	6589.9	5397.6	4826.1	4791.8	4767.3	4600.4
50°	7431.8	7442.4	7456.4	7389.7	7900.7	7965.6	6439.7	5808.5	5791.8	5682.1	5421.3
52.5°	6657.5	6711.0	6876.1	7087.7	8128.9	9286.1	8073.6	7028.9	6939.3	6822.5	6535.4
55°	5352.8	5411.7	5725.1	6238.7	7789.2	10153.5	10363.3	8602.1	8452.9	8104.3	7689.9
57.5°	3542.5	3633.8	4088.6	4741.8	6802.3	10293.1	12647.7	10785.6	10265.8	9311.5	8844.4
60°	1951.7	2039.5	2532.9	3124.6	4913.0	9603.0	14184.1	13628.4	12710.1	10660.9	10246.5
62.5°	1201.9	1249.3	1613.7	2164.1	2946.4	7579.3	14501.9	17200.8	16137.6	12398.4	11940.1
65°	957.0	977.2	1155.4	1769.1	2112.3	4508.3	13475.6	19924.2	19569.5	14501.9	13456.3
67°	928.9	936.8	1021.1	1518.9	1991.2	2763.8	11289.5	20367.5	20727.5	15775.0	13503.7
67.5°	935.0	943.8	1023.7	1449.5	1987.7	2539.9	10536.3	20192.8	20647.6	15875.9	13293.9
70°	901.7	928.9	1172.1	1448.6	1890.2	2110.6	6309.8	17495.8	17969.0	14751.3	11279.9
72.5°	319.6	321.3	506.6	1172.1	2055.3	2133.4	3168.5	12825.9	13176.2	11284.3	8132.4
75°	189.6	161.5	168.6	333.6	1964.0	2072.0	1827.9	8195.6	8326.5	6466.1	4118.5
77.5°	130.8	114.1	117.6	147.5	748.0	2043.0	1452.1	4273.9	4134.3	2267.7	877.1
80°	74.6	65.8	70.2	129.1	272.2	1906.0	1369.6	1733.1	1477.6	384.5	242.3
82.5°	39.5	33.4	40.4	106.2	189.6	1187.9	1372.2	837.6	663.7	129.9	165.1
85°	14.0	11.4	19.3	72.9	126.4	364.3	1272.1	704.1	553.1	63.2	125.5
87.5°	2.6	2.6	7.9	29.9	50.9	111.5	752.4	417.9	280.1	37.8	86.0
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°	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5
2.5°	3309.0	3271.2	3220.3	3158.0	3084.2	3019.3	2971.0	2920.9	2910.4	2892.8	2890.2
5°	3287.0	3222.1	3095.6	2950.8	2796.3	2656.7	2543.4	2442.5	2397.7	2359.0	2354.7
7.5°	3254.6	3157.1	2942.0	2708.5	2467.0	2247.5	2061.4	1929.7	1808.6	1750.6	1741.8
10°	3216.8	3077.2	2769.0	2445.1	2111.5	1801.5	1525.0	1293.2	1152.7	1069.3	1058.8
12.5°	3181.7	2999.1	2592.6	2172.0	1728.7	1314.3	958.7	737.5	590.0	530.3	523.3
15°	3165.0	2935.9	2427.5	1892.9	1328.3	836.7	524.1	405.6	357.3	343.3	342.4
17.5°	3163.2	2882.3	2266.0	1604.0	930.6	486.4	341.5	311.7	302.0	298.5	298.5
20°	3162.4	2831.4	2104.4	1304.6	590.9	324.0	284.5	277.4	270.4	266.0	266.0
22.5°	3172.0	2785.7	1935.9	999.1	372.3	262.5	250.2	243.2	234.4	228.3	227.4
25°	3181.7	2750.6	1763.8	711.1	269.5	228.3	216.0	206.3	194.0	186.1	185.2
27.5°	3183.4	2706.7	1579.4	475.8	225.6	199.3	183.5	168.6	154.5	146.6	145.7
30°	3157.1	2633.0	1374.9	321.3	199.3	173.0	151.9	136.1	122.9	116.8	116.8
32.5°	3105.3	2541.7	1150.1	242.3	177.3	148.4	125.5	110.6	101.8	99.2	98.3
35°	3058.8	2443.3	919.2	205.4	158.9	125.5	102.7	93.1	87.8	86.9	86.0
37.5°	3031.6	2364.3	702.4	186.1	141.3	105.4	86.9	79.9	77.3	75.5	76.4
40°	3052.6	2298.5	518.9	170.3	123.8	87.8	73.7	70.2	67.6	66.7	66.7
42.5°	3144.8	2287.1	385.4	156.3	107.1	72.9	64.1	61.5	59.7	58.8	59.7
45°	3387.1	2357.3	299.4	143.1	90.4	61.5	54.4	53.6	52.7	52.7	52.7
47.5°	3751.5	2502.2	249.3	128.2	75.5	52.7	47.4	46.5	45.7	46.5	46.5
50°	4368.7	2767.3	223.0	113.3	62.3	44.8	40.4	40.4	40.4	40.4	41.3
52.5°	5307.2	3288.8	205.4	98.3	50.9	37.8	34.2	34.2	35.1	35.1	36.0
55°	6352.8	3980.6	189.6	83.4	43.0	31.6	28.1	29.0	29.9	30.7	30.7
57.5°	7487.1	4747.1	176.5	68.5	36.9	25.5	23.7	24.6	25.5	27.2	27.2
60°	8855.9	5576.7	157.2	53.6	30.7	20.2	18.4	20.2	22.8	24.6	25.5
62.5°	10358.9	6379.2	132.6	42.1	25.5	15.8	14.9	18.4	21.9	23.7	24.6
65°	11386.1	6631.1	101.8	34.2	19.3	11.4	12.3	16.7	21.1	23.7	23.7
67°	10970.0	6012.2	83.4	29.0	15.8	8.8	11.4	16.7	21.1	22.8	23.7
67.5°	10681.1	5769.9	79.9	28.1	14.9	8.8	11.4	16.7	21.1	23.7	23.7
70°	8690.8	4334.4	66.7	21.1	12.3	7.9	9.7	15.8	20.2	22.8	22.8
72.5°	6038.5	2672.5	59.7	14.9	10.5	7.0	8.8	14.9	19.3	21.9	22.8
75°	2870.9	967.5	50.9	11.4	9.7	6.1	7.9	14.9	19.3	21.9	21.9
77.5°	585.6	224.8	41.3	9.7	7.9	6.1	7.0	14.0	18.4	21.1	21.1
80°	192.3	86.9	30.7	8.8	7.9	6.1	7.0	13.2	18.4	20.2	21.1
82.5°	138.7	43.9	20.2	8.8	7.9	6.1	6.1	13.2	17.6	20.2	20.2
85°	106.2	30.7	13.2	8.8	7.9	6.1	6.1	12.3	16.7	19.3	19.3
87.5°	70.2	12.3	10.5	8.8	7.9	6.1	6.1	12.3	15.8	18.4	19.3
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)