

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: P191251

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191251  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
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-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17664.3 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G4

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

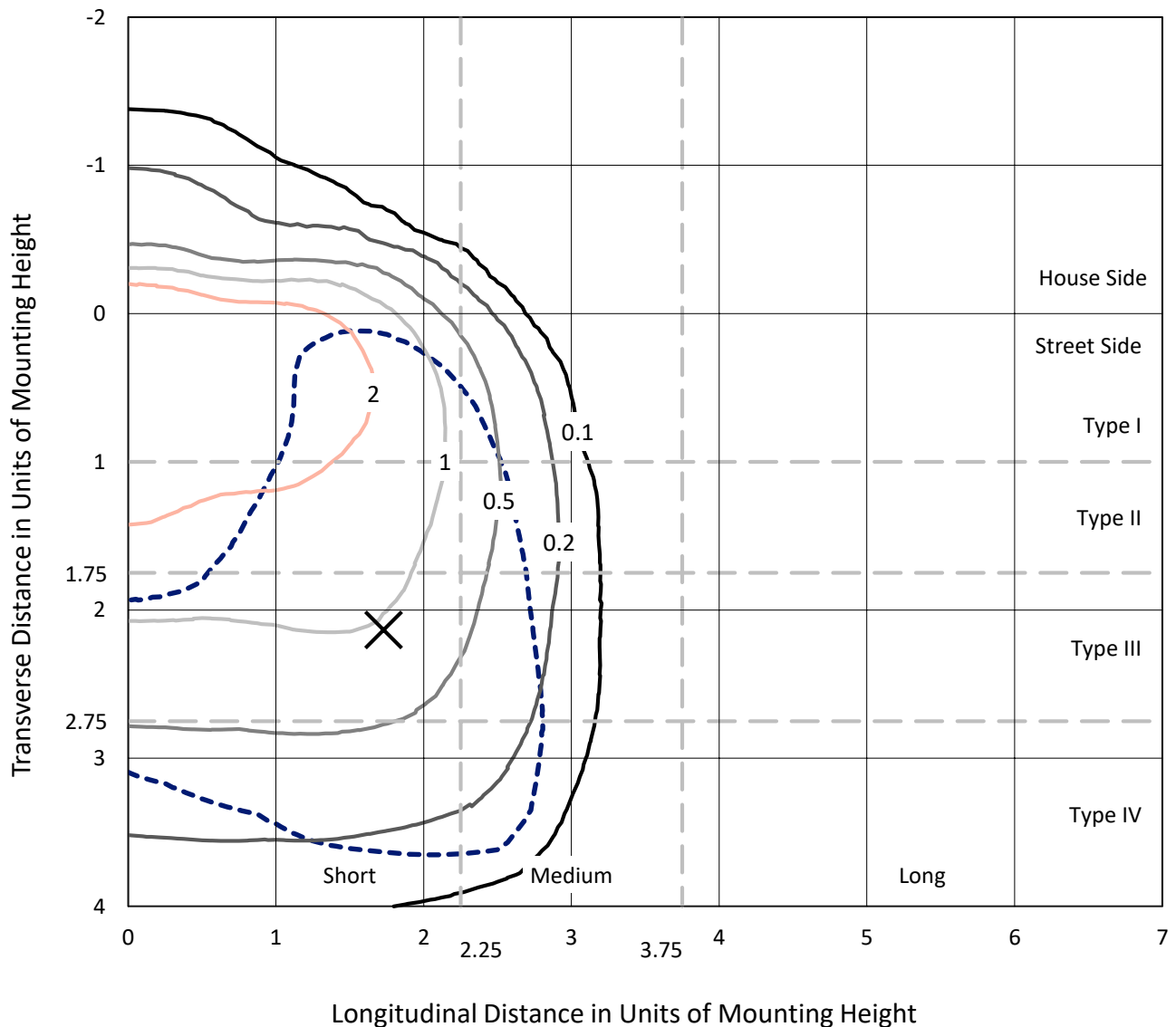


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

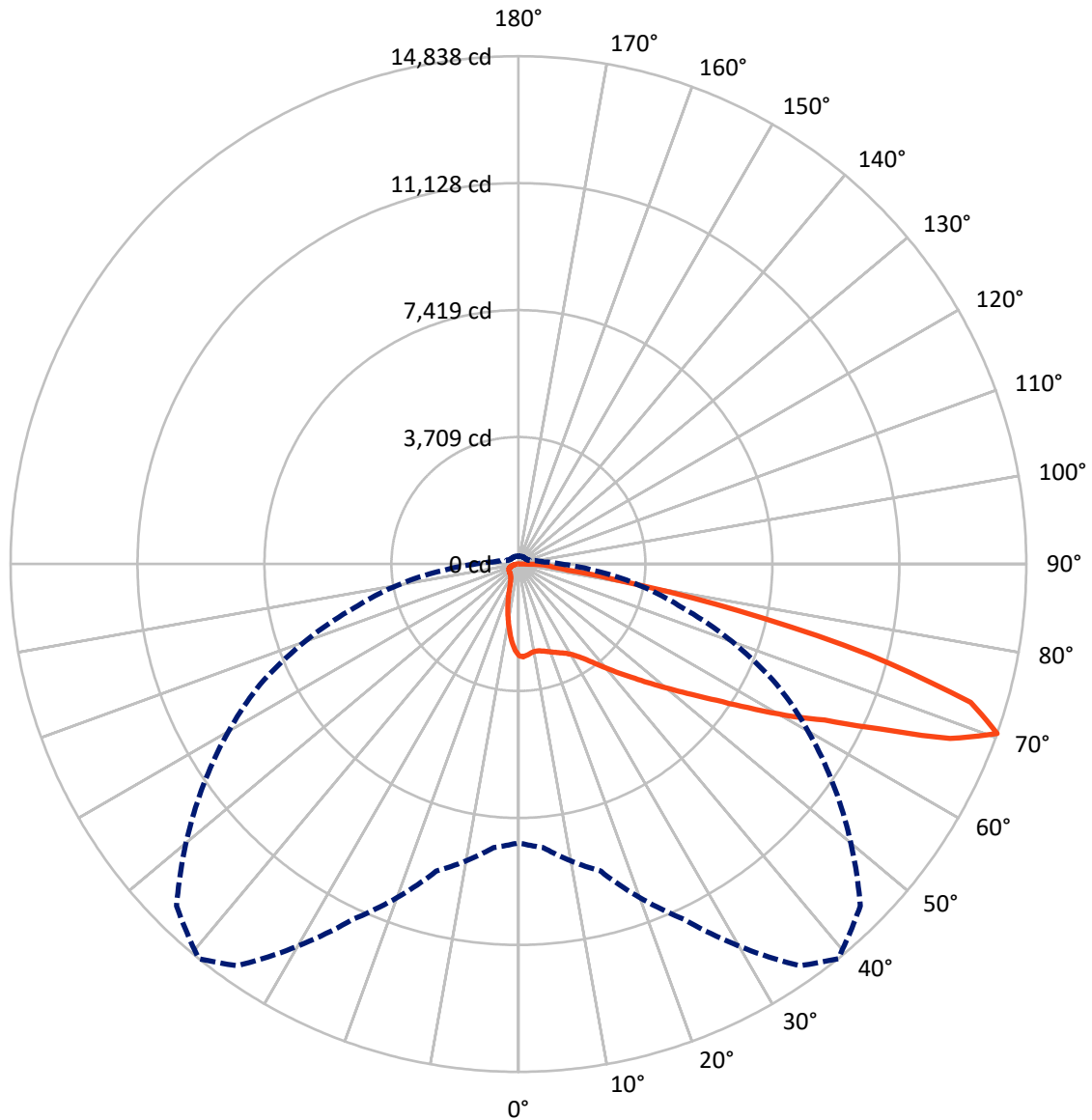


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2009.0	0.0	2009.0
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	15655.3	0.0	15655.3
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	17664.3	0.0	17664.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.1	1.3
10°-20°	575.3	3.3
20°-30°	895.7	5.1
30°-40°	1395.4	7.9
40°-50°	2342.6	13.3
50°-60°	3721.4	21.1
60°-70°	4963.9	28.1
70°-80°	2997.6	17.0
80°-90°	542.5	3.1
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°	17664.3	100.0
0°-180°	17664.3	100.0



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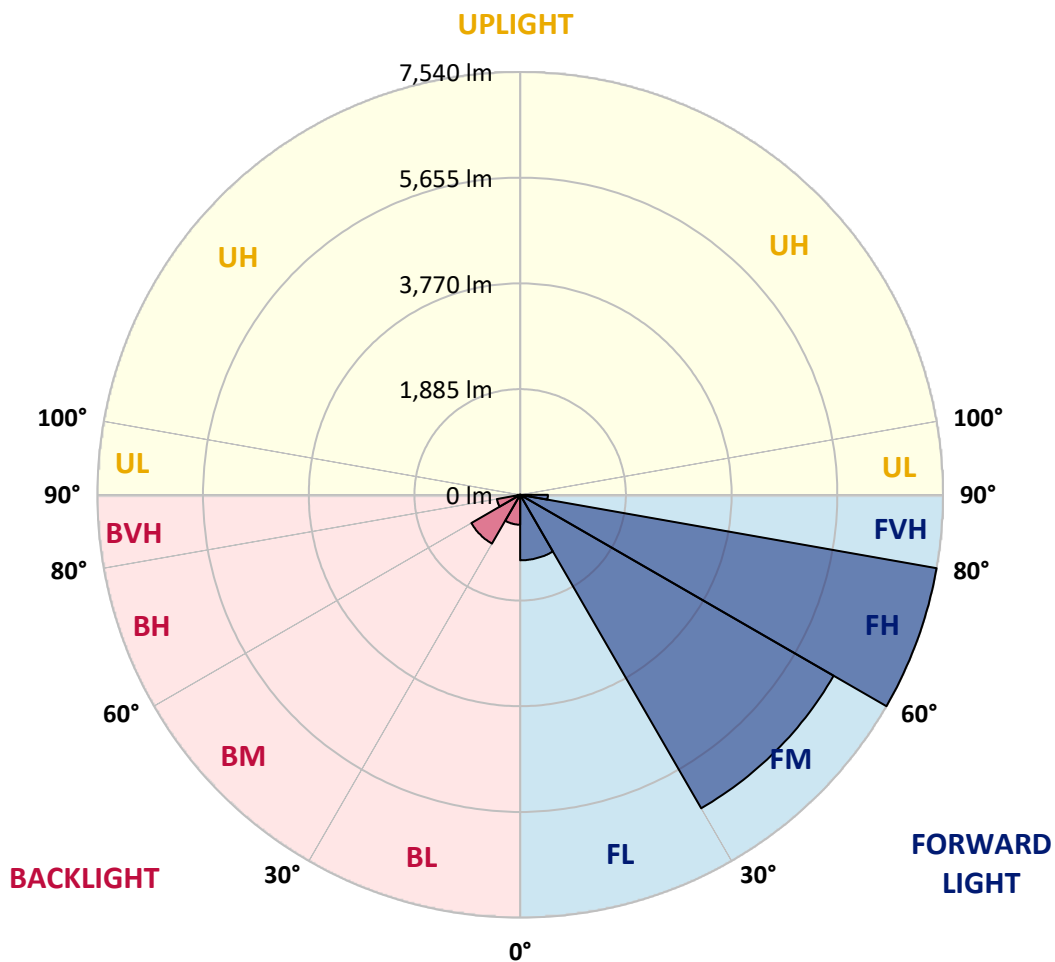
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1168.2	6.6			
FM	(30°-60°)	6453.9	36.5			
FH	(60°-80°)	7539.6	42.7			G4/12000
FVH	(80°-90°)	493.6	2.8			G3/500
BL	(0°-30°)	533.0	3.0	B2/1000		
BM	(30°-60°)	1005.4	5.7	B2/2500		
BH	(60°-80°)	421.8	2.4	B1/500		G1/500
BVH	(80°-90°)	48.9	0.3			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8
2.5°	2733.8	2732.9	2725.8	2720.3	2715.8	2714.1	2717.7	2704.2	2692.5	2678.1	2662.8
5°	2713.2	2712.3	2700.6	2689.8	2679.0	2675.4	2674.5	2650.3	2635.9	2614.4	2585.6
7.5°	2690.7	2686.2	2670.9	2653.0	2634.1	2625.1	2616.2	2584.7	2568.5	2547.0	2513.8
10°	2667.3	2661.9	2647.6	2629.6	2611.7	2598.2	2583.0	2552.4	2535.3	2519.1	2480.6
12.5°	2643.1	2638.6	2635.0	2626.9	2614.4	2602.7	2591.0	2564.9	2547.0	2528.1	2483.2
15°	2639.5	2637.7	2645.8	2651.2	2644.0	2636.9	2624.3	2601.8	2583.0	2564.0	2505.7
17.5°	2668.3	2667.3	2688.0	2702.3	2698.7	2686.2	2669.2	2644.0	2628.8	2612.5	2539.8
20°	2731.1	2735.6	2760.7	2779.6	2761.7	2743.7	2715.8	2680.8	2672.8	2665.5	2574.9
22.5°	2849.6	2854.1	2872.1	2879.3	2832.6	2806.6	2767.9	2723.0	2717.7	2723.0	2617.0
25°	3034.7	3030.2	3027.5	3000.5	2915.2	2874.8	2825.4	2778.7	2781.4	2805.6	2676.3
27.5°	3279.9	3255.6	3217.9	3137.1	3001.4	2956.5	2896.4	2853.2	2870.3	2917.0	2765.2
30°	3534.0	3507.1	3419.9	3288.0	3114.6	3065.2	2997.9	2949.4	2994.3	3067.9	2883.8
32.5°	3769.3	3765.7	3638.2	3468.4	3270.9	3227.7	3160.4	3105.6	3178.4	3290.6	3061.6
35°	4026.1	4034.2	3881.6	3677.7	3481.9	3437.0	3388.5	3347.2	3444.2	3598.6	3319.4
37.5°	4301.0	4317.2	4136.6	3906.8	3722.6	3703.8	3675.1	3657.0	3807.0	4020.8	3679.5
40°	4668.3	4652.2	4401.6	4165.4	4018.0	4017.2	4008.2	4029.7	4279.4	4572.2	4142.0
42.5°	5061.7	5014.1	4682.7	4442.9	4342.3	4372.8	4390.8	4478.8	4848.0	5242.2	4706.0
45°	5485.6	5378.7	4974.5	4736.6	4702.4	4767.1	4828.1	5019.4	5517.0	6004.7	5323.9
47.5°	5824.2	5720.9	5276.3	5044.6	5119.2	5217.0	5334.7	5637.4	6266.0	6792.3	5933.7
50°	6090.9	6023.5	5580.8	5403.8	5578.0	5728.9	5921.1	6337.0	7045.6	7559.3	6498.6
52.5°	6349.6	6299.2	5887.9	5772.1	6116.9	6325.3	6586.7	7087.8	7844.9	8313.7	6973.8
55°	6583.1	6547.1	6218.4	6231.0	6751.0	7022.3	7350.9	7942.8	8716.1	8986.3	7376.1
57.5°	6846.2	6800.4	6595.6	6806.7	7565.5	7917.6	8345.1	8903.8	9533.3	9584.5	7682.4
60°	7111.1	7071.7	7014.2	7471.2	8600.2	8970.2	9375.2	9835.1	10362.3	10048.9	7664.4
62.5°	7341.0	7345.5	7447.0	8169.1	9613.2	10041.6	10535.6	10990.0	11112.1	10129.7	7097.6
65°	7730.8	7801.7	8104.4	9156.9	11039.4	11612.4	12218.6	12145.9	11319.6	9374.3	5882.6
67.5°	8194.2	8319.0	8932.5	10473.6	12841.9	13602.6	13836.9	12407.2	10488.8	7620.4	4193.2
70°	8147.5	8319.0	9289.9	11455.2	14327.3	14837.5	14126.1	11228.9	8329.0	4978.2	2227.3
72.5°	7235.0	7480.2	8561.6	11005.3	13859.4	13814.5	12263.5	8371.1	4948.5	1999.2	870.2
75°	5514.3	5762.2	6692.7	8694.5	10954.1	10576.9	8701.6	4624.2	1877.9	793.9	548.7
77.5°	3172.1	3364.3	4082.7	5332.0	6949.5	6562.4	4843.5	2056.6	914.3	553.2	428.4
80°	1771.0	1877.9	2314.4	2705.1	3405.6	3121.7	2167.1	1278.0	682.5	401.4	330.5
82.5°	1400.1	1495.3	1871.6	1706.4	1555.5	1435.2	1244.7	1137.9	545.1	253.3	197.5
85°	1223.2	1313.9	1584.2	1343.5	1062.4	974.5	1011.3	1119.9	423.9	152.7	168.9
87.5°	1133.4	1254.6	1411.8	1035.5	827.2	732.8	933.1	1227.7	136.5	95.2	68.2
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°	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8	2681.8
2.5°	2649.3	2635.0	2611.7	2591.0	2558.7	2541.6	2522.8	2509.3	2498.5	2489.6	2503.9
5°	2567.7	2540.7	2491.3	2438.3	2375.5	2326.1	2284.8	2246.1	2219.2	2201.2	2213.8
7.5°	2490.4	2446.4	2369.2	2273.1	2165.3	2073.7	1998.2	1931.8	1886.0	1856.3	1868.0
10°	2446.4	2391.7	2272.2	2121.3	1962.3	1819.5	1701.0	1598.6	1527.7	1487.3	1493.5
12.5°	2435.6	2364.7	2199.4	1992.0	1774.6	1576.2	1409.1	1267.2	1167.5	1115.4	1117.3
15°	2443.7	2353.0	2131.2	1868.0	1593.2	1342.6	1134.2	961.9	846.0	786.8	785.8
17.5°	2457.2	2344.0	2059.3	1734.2	1409.1	1118.1	885.6	716.7	614.3	566.7	563.1
20°	2471.6	2329.7	1978.5	1589.7	1217.8	909.8	693.4	561.3	496.6	470.6	468.8
22.5°	2492.2	2317.1	1895.0	1436.9	1030.1	740.9	570.3	481.4	447.2	433.7	432.0
25°	2525.5	2310.8	1806.1	1278.0	861.3	619.7	496.6	441.8	422.1	413.2	412.2
27.5°	2581.1	2319.7	1722.5	1123.5	723.8	538.0	455.3	422.1	407.7	399.7	398.7
30°	2653.0	2347.7	1634.6	977.1	616.9	482.3	430.2	408.7	397.0	388.9	388.9
32.5°	2772.4	2394.3	1542.0	850.5	540.6	443.7	411.3	397.0	387.1	380.7	379.9
35°	2948.5	2482.3	1455.9	745.4	485.9	415.8	395.2	384.4	377.2	373.6	373.6
37.5°	3204.4	2621.5	1379.4	669.9	452.7	397.0	379.9	371.8	367.3	367.3	367.3
40°	3548.4	2813.7	1317.5	619.7	433.7	383.5	368.3	361.9	359.3	360.2	360.2
42.5°	3973.1	3063.4	1276.2	584.6	424.8	375.4	360.2	354.8	352.1	351.2	352.1
45°	4457.3	3347.2	1271.7	558.6	415.8	370.0	354.8	349.3	344.0	340.3	340.3
47.5°	4927.9	3635.5	1308.6	549.6	405.9	363.8	350.3	344.8	336.8	328.7	328.7
50°	5343.7	3880.7	1358.0	553.2	402.3	354.8	343.1	340.3	327.9	318.9	317.9
52.5°	5674.2	4069.3	1398.4	564.1	405.9	348.4	334.1	335.0	321.5	311.6	310.8
55°	5939.2	4193.2	1387.5	574.8	414.0	344.8	326.0	327.9	317.0	307.2	307.2
57.5°	6054.9	4147.5	1268.2	565.8	420.3	345.8	319.7	326.9	317.9	308.9	308.9
60°	5806.2	3740.5	1044.5	526.3	412.2	343.1	317.0	330.5	329.6	320.6	319.7
62.5°	5053.6	3012.2	810.1	467.9	384.4	329.6	309.9	329.6	339.5	336.8	335.9
65°	3895.1	2145.5	618.8	405.1	346.7	307.2	291.0	308.9	322.4	326.0	325.1
67.5°	2528.1	1314.8	476.9	345.8	304.4	281.1	266.8	274.9	277.5	277.5	275.7
70°	1243.0	707.7	379.9	291.0	261.4	253.3	245.2	240.7	236.2	232.6	232.6
72.5°	613.4	462.5	312.5	246.1	225.5	221.9	220.0	214.6	211.0	206.5	204.8
75°	453.6	376.3	265.9	207.5	194.0	190.4	194.0	189.5	188.6	185.1	183.2
77.5°	372.7	320.6	229.0	177.8	166.1	159.9	165.2	166.1	167.0	161.6	159.9
80°	302.7	271.2	191.3	147.3	136.5	132.1	135.6	142.8	144.5	136.5	132.9
82.5°	218.2	221.9	154.5	115.0	106.0	102.4	109.6	118.6	120.3	108.6	106.0
85°	183.2	185.1	118.6	81.7	72.7	67.3	79.1	88.0	94.3	82.7	79.9
87.5°	76.3	108.6	68.2	45.8	40.4	35.0	42.2	46.7	56.6	52.1	51.1
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)