

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: P191930

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-7050-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191930  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-02-LED-E1-SL3-7050-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10405 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 113  
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

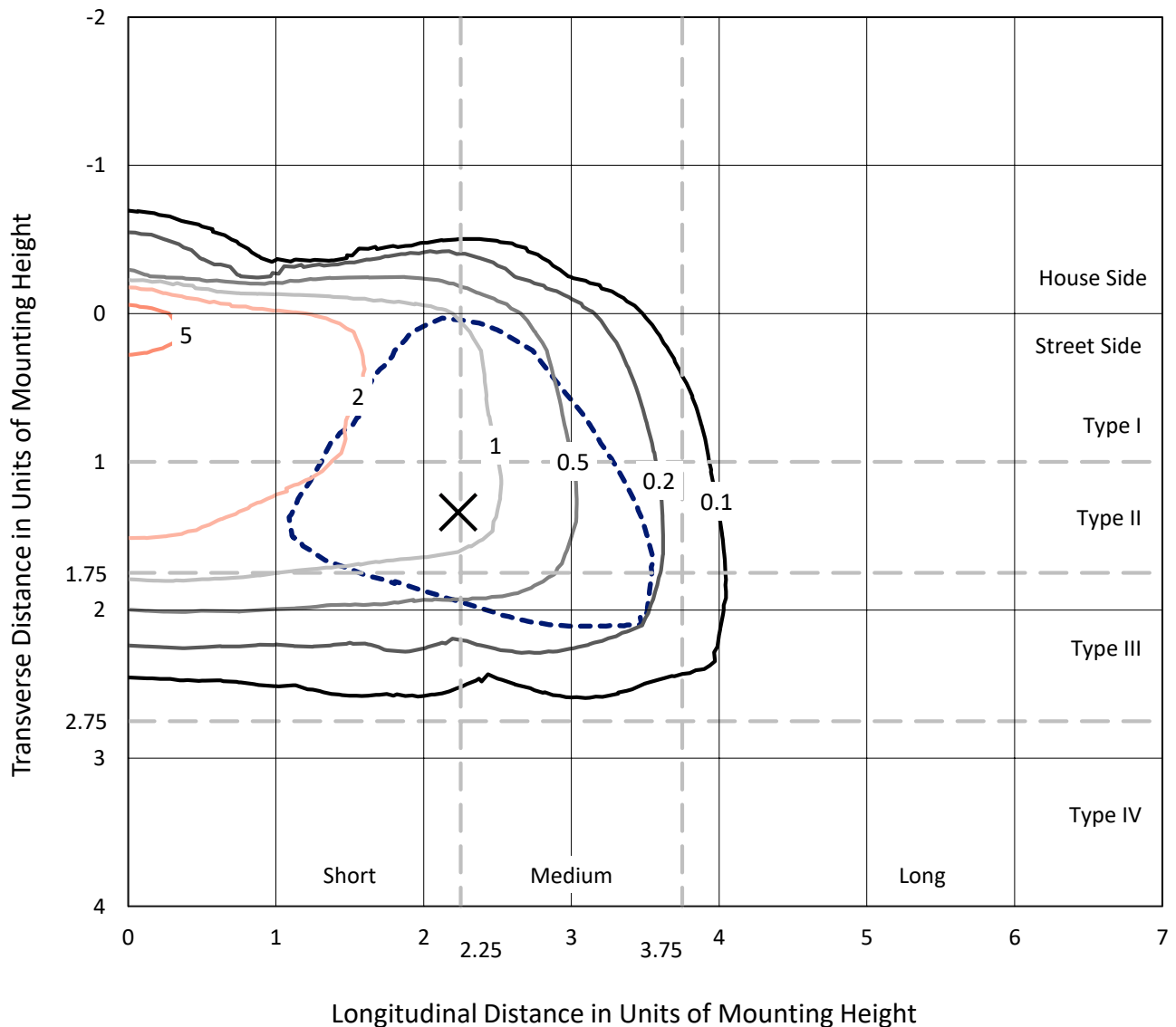


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### Iso-Footcandle Lines of Horizontal Illumination

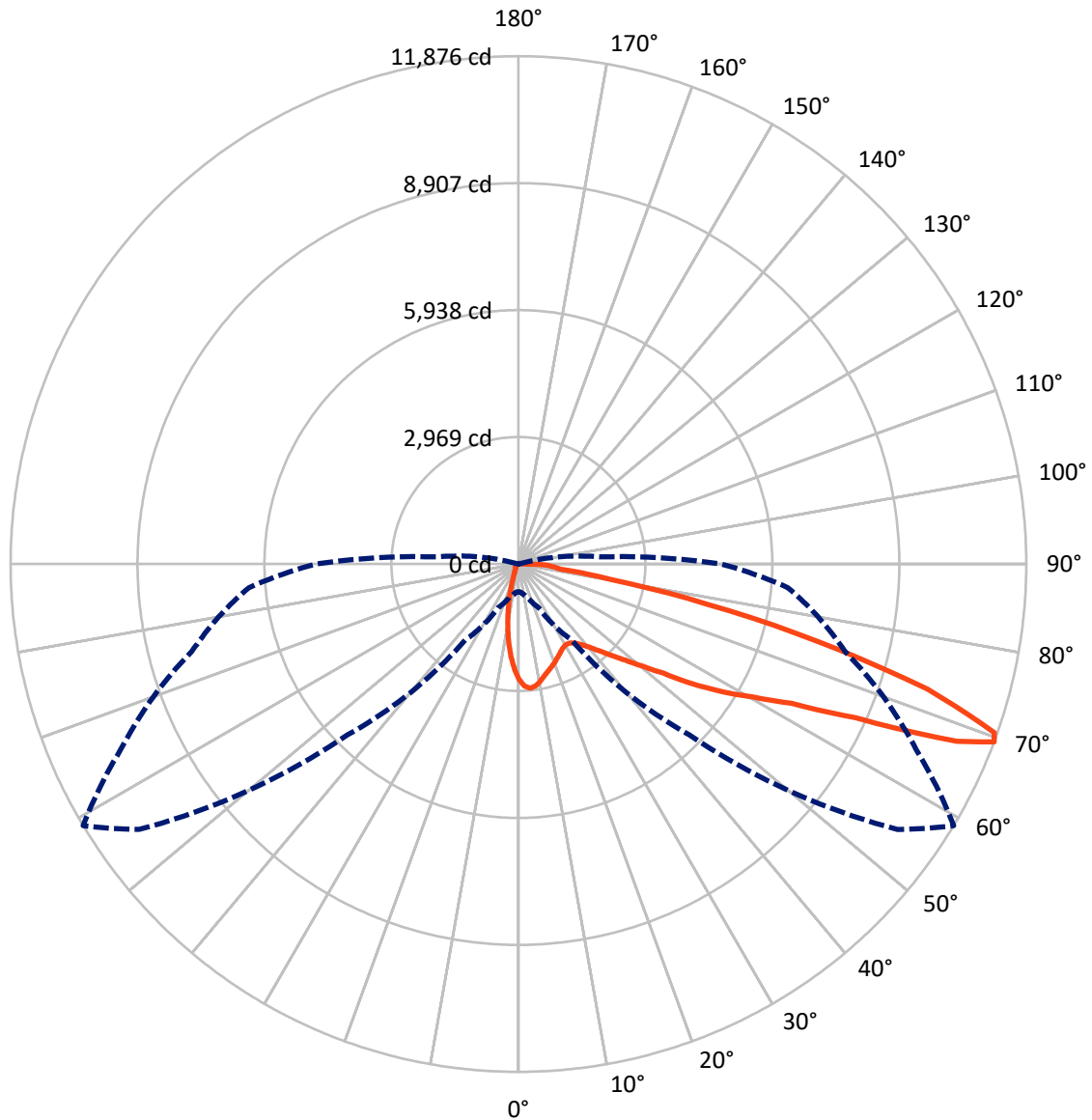
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	847.3	0.0	847.3
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	9557.7	0.0	9557.7
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	10405.0	0.0	10405.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.8	2.1
10°-20°	454.2	4.4
20°-30°	611.2	5.9
30°-40°	887.5	8.5
40°-50°	1477.7	14.2
50°-60°	2305.2	22.2
60°-70°	2852.5	27.4
70°-80°	1445.6	13.9
80°-90°	151.3	1.5
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°	10405.0	100.0
0°-180°	10405.0	100.0



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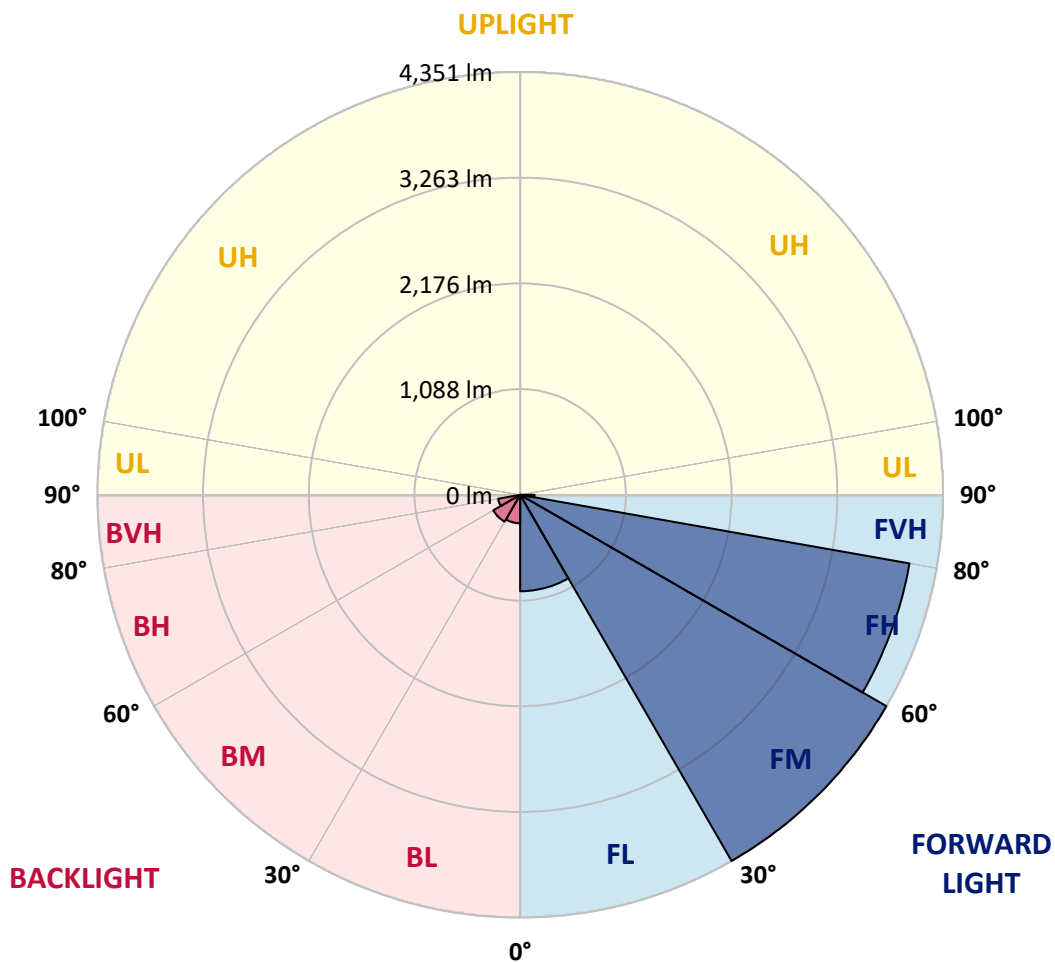
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	992.0	9.5			
FM (30°-60°)	4351.1	41.8			
FH (60°-80°)	4068.0	39.1			G2/5000
FVH (80°-90°)	146.6	1.4			G2/225
BL (0°-30°)	293.3	2.8	B1/500		
BM (30°-60°)	319.3	3.1	B1/1000		
BH (60°-80°)	230.1	2.2	B1/500		G1/500
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2708.3	2708.3	2708.3	2708.3	2708.3	2708.3	2708.3	2708.3	2708.3	2708.3	2708.3
2.5°	2968.3	2967.2	2954.2	2948.3	2937.7	2915.4	2880.7	2862.4	2833.0	2781.8	2713.0
5°	2941.3	2955.4	2963.0	2963.6	2971.3	2963.0	2931.9	2916.6	2876.0	2793.6	2670.0
7.5°	2757.7	2763.0	2784.8	2803.6	2840.1	2874.8	2886.0	2879.5	2855.4	2767.1	2603.0
10°	2561.2	2566.5	2592.4	2617.1	2666.5	2720.0	2776.5	2788.3	2798.3	2729.5	2538.2
12.5°	2391.7	2397.0	2423.5	2455.9	2513.5	2579.4	2667.1	2686.5	2730.6	2693.6	2486.5
15°	2245.8	2248.2	2274.1	2314.1	2382.9	2467.6	2567.1	2598.3	2665.9	2668.3	2441.2
17.5°	2121.7	2127.6	2143.4	2181.7	2257.0	2361.7	2477.6	2522.4	2601.8	2647.1	2397.0
20°	2045.8	2051.7	2051.1	2072.2	2139.9	2251.7	2388.2	2441.7	2538.2	2625.3	2357.6
22.5°	2031.1	2031.1	2015.8	2012.8	2052.8	2146.4	2295.2	2360.5	2481.2	2615.9	2330.0
25°	2083.4	2081.1	2042.8	2011.6	2013.4	2069.3	2205.2	2282.9	2432.9	2622.4	2315.2
27.5°	2194.0	2191.1	2142.9	2083.4	2035.8	2035.2	2137.0	2220.5	2394.7	2653.0	2321.1
30°	2347.0	2345.8	2293.5	2218.8	2132.3	2052.8	2113.4	2189.3	2370.0	2708.3	2334.7
32.5°	2514.1	2512.3	2472.9	2394.1	2284.6	2132.3	2138.1	2201.7	2377.0	2781.8	2367.6
35°	2691.2	2688.3	2671.2	2602.4	2481.8	2278.8	2219.3	2268.8	2421.7	2891.8	2432.3
37.5°	2883.0	2886.0	2898.3	2832.4	2705.9	2484.1	2355.3	2388.8	2511.8	3041.3	2537.6
40°	3166.0	3165.4	3169.6	3083.1	2961.3	2735.3	2545.3	2555.9	2662.4	3239.6	2697.7
42.5°	3679.7	3643.8	3534.9	3358.4	3236.0	3022.5	2784.8	2773.6	2846.5	3484.9	2921.9
45°	4369.8	4293.4	4010.9	3672.6	3516.1	3346.1	3079.5	3043.6	3090.1	3779.7	3198.4
47.5°	4963.5	4884.1	4484.6	3999.8	3813.2	3653.2	3424.9	3360.2	3375.5	4109.8	3549.1
50°	5165.3	5126.5	4777.6	4284.5	4101.0	4039.8	3825.6	3746.8	3725.0	4491.6	3955.6
52.5°	5095.3	5092.4	4860.0	4469.3	4364.5	4439.9	4329.8	4238.6	4158.6	4894.1	4369.3
55°	4982.9	4997.6	4893.5	4631.1	4627.5	4805.2	5019.4	4943.5	4711.7	5331.2	4725.8
57.5°	4672.9	4735.8	4874.7	4937.0	5081.8	5263.6	5593.7	5638.4	5364.2	5666.0	5021.8
60°	3791.5	3929.7	4384.0	4981.2	5667.2	6120.2	6286.8	6325.0	5899.6	5944.3	5421.3
62.5°	2691.2	2832.4	3408.4	4418.7	5676.0	7245.8	7319.4	7169.3	6489.2	6356.8	6110.2
65°	1428.6	1537.4	2008.1	3189.6	4921.1	7507.0	9125.1	8677.9	7529.4	7168.1	7000.5
67.5°	730.8	763.7	950.8	1561.0	3383.1	6668.0	10743.7	11058.5	9322.2	7973.0	6957.5
69°	646.6	666.0	790.2	1128.5	2166.4	5647.8	10822.5	11875.7	10260.6	7906.0	6322.6
70°	626.0	643.1	756.1	1021.4	1693.3	4736.4	10520.7	11803.9	10500.7	7650.6	5848.4
72.5°	531.3	546.0	673.1	902.6	1376.2	2351.1	8546.1	10002.3	9422.8	6373.2	4233.3
75°	355.4	403.6	646.0	846.1	1280.3	1335.6	5634.3	7228.2	6714.5	4298.6	2205.2
77.5°	85.3	91.8	182.4	673.1	1170.9	1175.6	2897.7	4493.4	3665.0	1532.1	521.3
80°	45.9	44.1	51.2	133.6	1090.3	1103.2	1304.4	2181.1	1308.5	254.2	171.8
82.5°	32.4	30.6	32.9	55.9	343.0	1004.9	943.7	987.3	542.5	97.7	77.1
85°	11.8	11.2	18.2	50.6	107.7	577.8	969.6	814.3	439.5	44.7	56.5
87.5°	4.1	3.5	7.1	27.7	32.9	245.9	598.4	615.4	173.0	27.1	26.5
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°	2708.3	2708.3	2708.3	2708.3	2708.3	2708.3	2708.3	2708.3	2708.3	2708.3	2708.3
2.5°	2684.2	2647.7	2580.6	2511.8	2448.2	2371.7	2333.5	2295.8	2279.9	2274.1	2246.4
5°	2606.5	2544.7	2402.3	2259.3	2127.6	1987.5	1895.1	1821.0	1777.5	1756.3	1722.8
7.5°	2507.1	2405.9	2189.9	1969.3	1763.9	1561.5	1411.5	1296.2	1216.8	1178.5	1143.8
10°	2410.6	2275.8	1968.7	1668.0	1389.1	1120.8	913.7	763.7	667.8	623.7	595.4
12.5°	2324.1	2149.3	1755.1	1374.4	1024.4	710.2	499.5	380.1	320.7	300.1	290.1
15°	2247.0	2032.8	1553.3	1095.5	693.7	406.0	273.0	232.4	223.0	223.0	221.8
17.5°	2174.0	1918.7	1358.6	833.7	435.4	248.3	207.7	202.4	202.4	204.8	204.8
20°	2104.0	1809.8	1170.3	598.4	274.2	197.1	187.7	186.5	187.7	190.6	190.6
22.5°	2044.0	1711.0	994.3	410.7	203.6	177.7	173.0	171.2	171.8	173.6	174.7
25°	1999.3	1627.4	828.4	278.3	175.3	161.8	156.5	153.6	151.2	151.2	152.4
27.5°	1971.0	1556.8	667.8	202.4	157.7	147.1	138.9	134.1	128.9	125.9	127.1
30°	1950.5	1489.8	517.2	165.3	141.2	130.6	120.0	112.4	104.7	101.2	102.4
32.5°	1942.8	1435.6	386.6	145.9	126.5	114.7	101.8	91.8	83.5	80.6	81.2
35°	1963.4	1392.7	283.0	131.8	114.7	100.0	85.3	74.1	67.7	65.9	66.5
37.5°	2017.5	1369.7	211.8	120.0	104.1	87.7	71.2	60.6	56.5	56.5	57.1
40°	2119.9	1369.1	170.0	111.8	94.7	75.9	58.8	51.2	48.8	50.0	50.6
42.5°	2269.4	1400.3	148.3	104.1	86.5	64.7	48.8	43.5	43.0	44.1	44.7
45°	2473.5	1457.4	136.5	97.7	77.7	54.1	41.2	37.7	37.7	39.4	40.0
47.5°	2723.6	1540.9	126.5	91.2	68.8	45.3	35.3	32.9	33.5	35.3	35.9
50°	3024.8	1646.3	116.5	84.1	62.4	37.7	30.6	28.8	29.4	31.8	32.4
52.5°	3367.8	1788.1	108.3	77.7	54.1	31.2	25.9	24.7	25.9	28.2	28.8
55°	3662.0	1915.2	98.3	72.4	43.5	25.9	21.2	21.2	22.4	25.3	25.9
57.5°	3945.0	2048.1	89.4	62.4	34.1	20.6	17.7	18.2	20.0	22.9	23.5
60°	4360.4	2273.5	78.8	52.4	25.9	16.5	14.7	15.3	17.7	20.6	21.2
62.5°	5065.9	2616.5	68.3	43.5	20.0	12.9	11.8	12.9	15.9	19.4	20.0
65°	5702.5	2755.9	55.9	36.5	15.3	10.0	10.0	11.8	15.3	18.8	19.4
67.5°	5347.7	2320.0	43.5	28.8	11.8	7.6	8.2	11.2	14.7	18.8	19.4
69°	4729.3	1896.9	37.1	22.9	10.0	7.1	7.6	11.2	14.7	18.2	18.8
70°	4247.5	1601.5	32.9	19.4	8.8	7.1	7.6	10.6	14.7	18.2	18.8
72.5°	2844.8	864.9	26.5	14.1	8.2	6.5	6.5	10.6	14.1	17.7	18.2
75°	1222.6	238.9	21.2	10.0	7.1	5.9	5.9	10.0	13.5	17.1	18.2
77.5°	223.6	60.6	17.1	8.8	7.1	5.9	5.3	9.4	12.9	16.5	17.1
80°	88.8	30.0	13.5	7.6	6.5	5.3	4.7	8.8	12.4	15.9	16.5
82.5°	53.5	17.1	11.2	7.1	6.5	4.7	4.1	7.6	11.8	15.3	15.9
85°	43.5	11.8	8.8	7.1	5.9	4.7	3.5	7.1	10.6	14.7	15.3
87.5°	21.2	8.2	8.2	6.5	5.9	4.7	3.5	6.5	10.0	14.1	14.7
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)