

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: P269079

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269079
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-SL3-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 9916.9 lumens
Efficiency: N/A
Efficacy: 76.9 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): 129
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

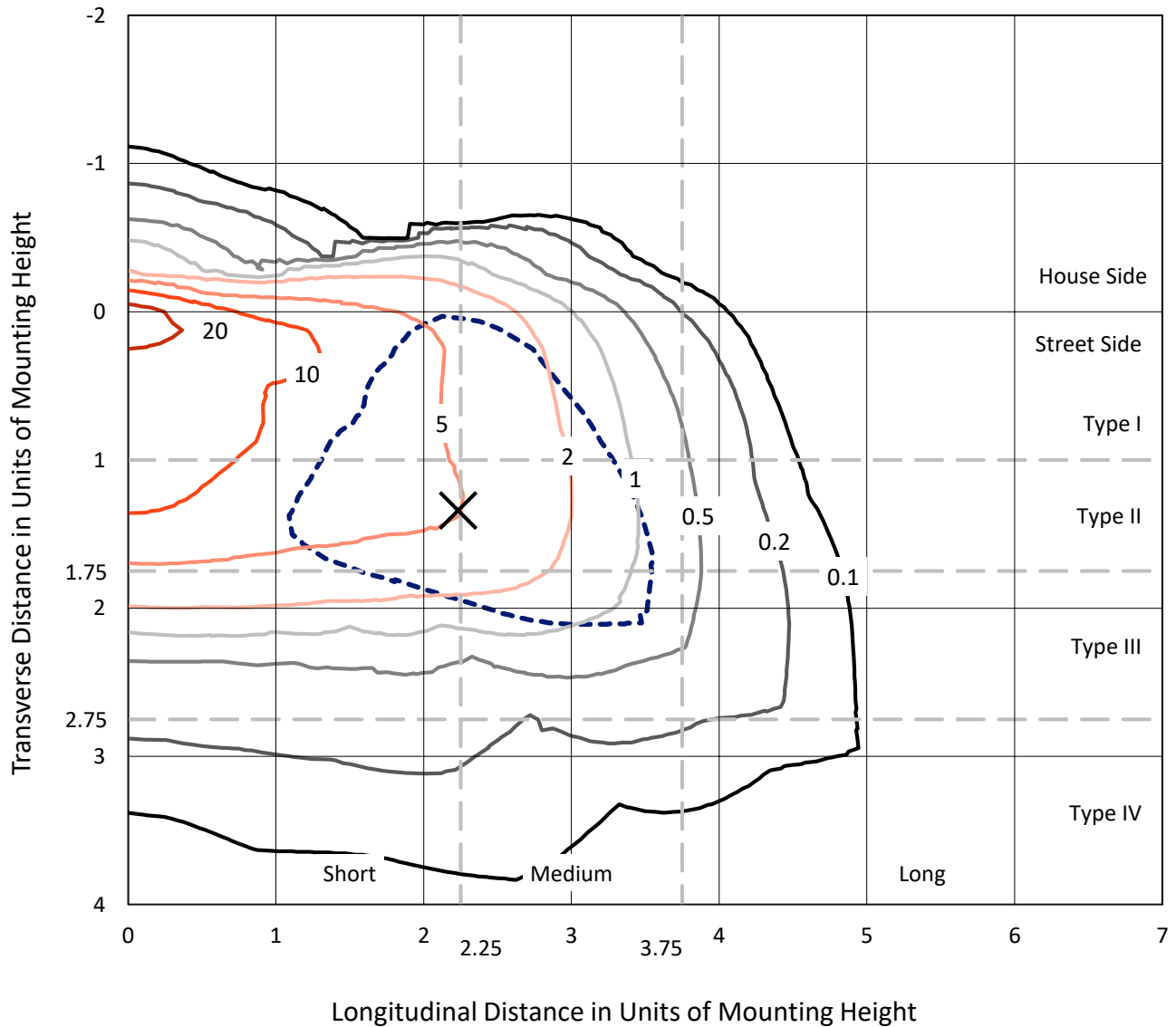


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

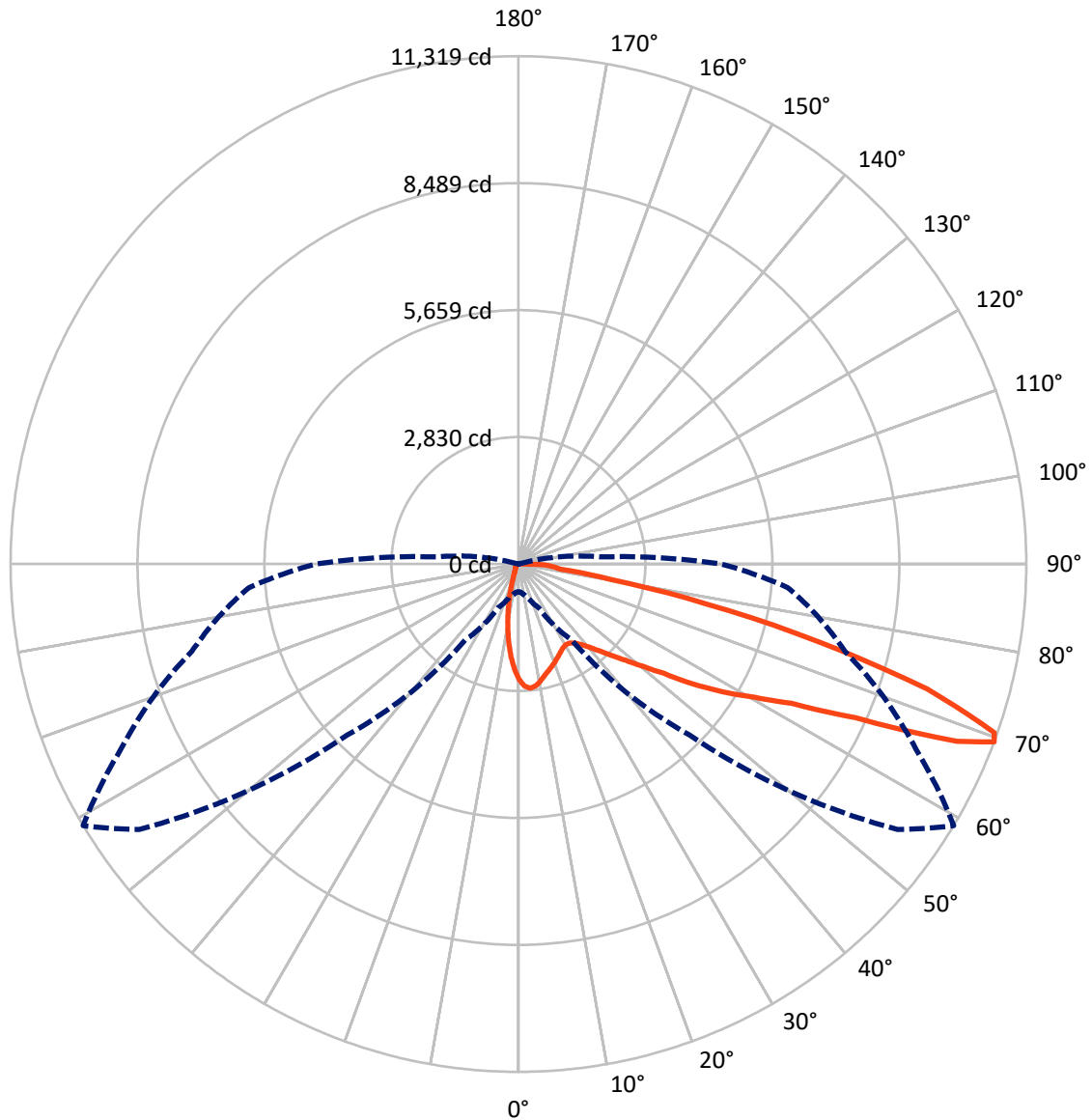


Based on 10 foot mounting height. Maximum calculated value = 25.9 fc
 Type III - Short - Non-Cutoff

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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
House Side	Lumens	807.6	0.0	807.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	9109.3	0.0	9109.3
	% Fixture	91.9	0.0	91.9
Total	Lumens	9916.9	0.0	9916.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.5	2.1
10°-20°	432.9	4.4
20°-30°	582.6	5.9
30°-40°	845.8	8.5
40°-50°	1408.4	14.2
50°-60°	2197.1	22.2
60°-70°	2718.7	27.4
70°-80°	1377.8	13.9
80°-90°	144.2	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°	9916.9	100.0
0°-180°	9916.9	100.0



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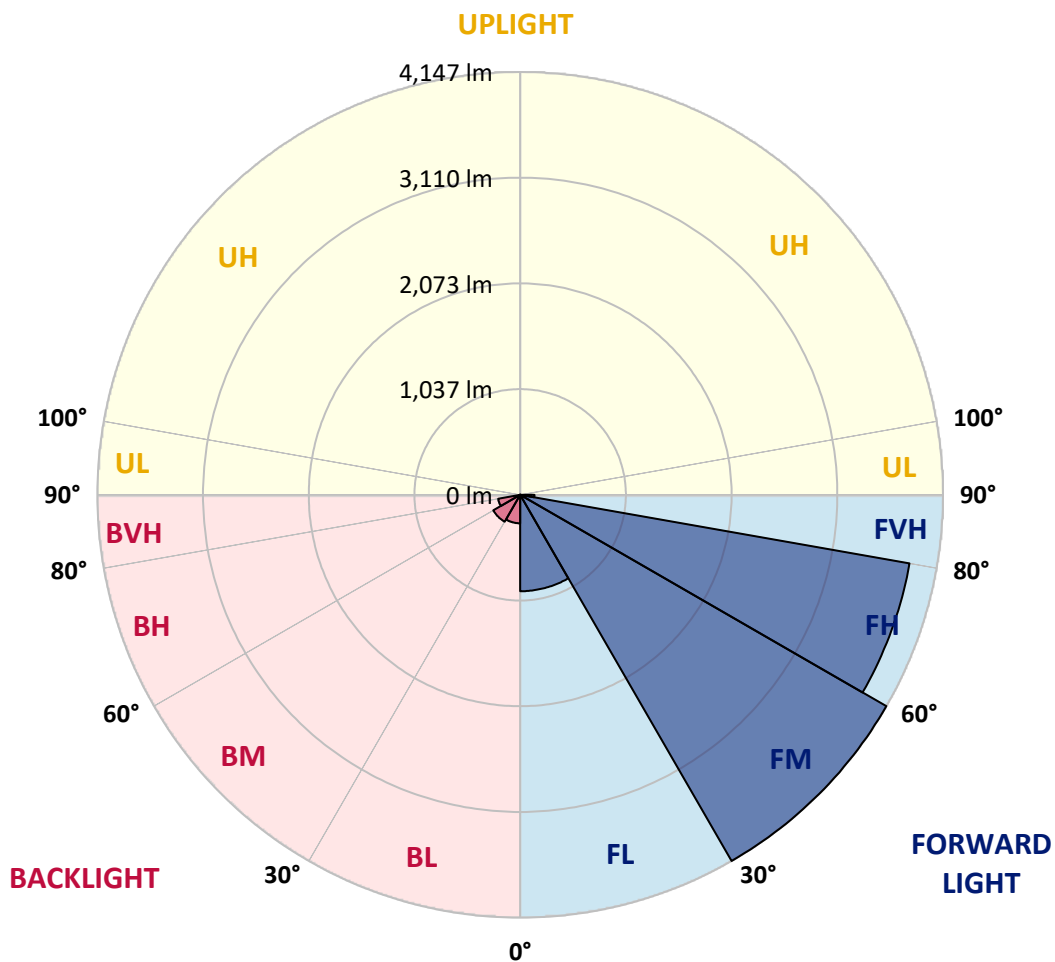
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	945.5	9.5			
FM	(30°-60°)	4147.0	41.8			
FH	(60°-80°)	3877.1	39.1			G2/5000
FVH	(80°-90°)	139.7	1.4			G2/225
BL	(0°-30°)	279.5	2.8	B1/500		
BM	(30°-60°)	304.3	3.1	B1/1000		
BH	(60°-80°)	219.3	2.2	B1/500		G1/500
BVH	(80°-90°)	4.4	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°	2581.2	2581.2	2581.2	2581.2	2581.2	2581.2	2581.2	2581.2	2581.2	2581.2	2581.2
2.5°	2829.1	2828.0	2815.6	2810.0	2799.9	2778.5	2745.5	2728.2	2700.1	2651.3	2585.7
5°	2803.3	2816.7	2824.0	2824.6	2831.8	2824.0	2794.3	2779.7	2741.1	2662.5	2544.8
7.5°	2628.4	2633.4	2654.1	2672.1	2706.9	2739.9	2750.6	2744.4	2721.4	2637.3	2480.8
10°	2441.1	2446.1	2470.8	2494.4	2541.5	2592.5	2646.2	2657.5	2667.0	2601.4	2419.1
12.5°	2279.4	2284.6	2309.8	2340.7	2395.6	2458.4	2541.9	2560.4	2602.5	2567.1	2369.8
15°	2140.4	2142.6	2167.4	2205.5	2271.2	2351.9	2446.7	2476.4	2540.9	2543.1	2326.6
17.5°	2022.2	2027.7	2042.8	2079.3	2151.1	2251.0	2361.5	2404.0	2479.7	2522.9	2284.6
20°	1949.9	1955.4	1954.8	1975.1	2039.5	2146.1	2276.1	2327.1	2419.1	2502.1	2247.0
22.5°	1935.8	1935.8	1921.3	1918.4	1956.5	2045.7	2187.6	2249.8	2364.8	2493.2	2220.7
25°	1985.8	1983.5	1946.9	1917.3	1919.0	1972.1	2101.8	2175.8	2318.7	2499.4	2206.6
27.5°	2091.2	2088.3	2042.3	1985.8	1940.2	1939.7	2036.6	2116.3	2282.4	2528.5	2212.3
30°	2236.9	2235.8	2185.8	2114.7	2032.2	1956.5	2014.3	2086.7	2258.8	2581.2	2225.1
32.5°	2396.1	2394.5	2357.0	2281.8	2177.5	2032.2	2037.8	2098.4	2265.5	2651.3	2256.5
35°	2565.0	2562.1	2545.8	2480.3	2365.3	2171.8	2115.1	2162.3	2308.1	2756.2	2318.3
37.5°	2747.7	2750.6	2762.4	2699.5	2578.9	2367.6	2244.8	2276.8	2394.0	2898.7	2418.5
40°	3017.4	3017.0	3020.9	2938.4	2822.4	2607.1	2426.0	2436.1	2537.5	3087.7	2571.0
42.5°	3507.1	3472.8	3369.2	3200.9	3084.2	2880.7	2654.1	2643.5	2713.1	3321.5	2784.7
45°	4164.8	4092.0	3822.7	3500.3	3351.1	3189.2	2935.1	2900.8	2945.2	3602.5	3048.4
47.5°	4730.7	4654.9	4274.1	3812.0	3634.4	3481.8	3264.3	3202.5	3217.1	3917.0	3382.6
50°	4923.0	4886.1	4553.5	4083.5	3908.5	3850.2	3646.1	3571.0	3550.2	4281.0	3770.0
52.5°	4856.2	4853.5	4632.0	4259.7	4159.8	4231.6	4126.8	4039.8	3963.5	4664.4	4164.4
55°	4749.2	4763.3	4663.9	4413.8	4410.5	4579.7	4784.0	4711.6	4490.6	5081.2	4504.1
57.5°	4453.6	4513.7	4645.9	4705.4	4843.4	5016.7	5331.3	5373.9	5112.6	5400.3	4786.2
60°	3613.6	3745.5	4178.2	4747.5	5401.4	5833.1	5991.9	6028.3	5622.9	5665.5	5167.0
62.5°	2565.0	2699.5	3248.5	4211.4	5409.8	6905.9	6976.0	6833.0	6184.7	6058.6	5823.6
65°	1361.6	1465.2	1913.8	3040.0	4690.3	7154.9	8697.0	8270.9	7176.2	6831.9	6672.0
67.5°	696.5	727.8	906.2	1487.8	3224.5	6355.1	10239.7	10539.8	8884.9	7599.0	6631.1
69°	616.2	634.8	753.0	1075.6	2064.8	5382.9	10314.8	11318.6	9779.3	7535.2	6026.0
70°	596.7	613.0	720.6	973.6	1613.8	4514.3	10027.2	11250.3	10008.0	7291.7	5574.1
72.5°	506.4	520.4	641.5	860.2	1311.6	2240.8	8145.2	9533.2	8980.7	6074.2	4034.7
75°	338.8	384.7	615.7	806.4	1220.3	1273.0	5370.0	6889.1	6399.5	4097.0	2101.8
77.5°	81.2	87.5	173.8	641.5	1116.0	1120.5	2761.7	4282.6	3493.0	1460.3	496.9
80°	43.7	42.1	48.8	127.3	1039.1	1051.5	1243.3	2078.8	1247.1	242.3	163.8
82.5°	30.8	29.1	31.4	53.3	327.0	957.9	899.5	941.0	517.1	93.1	73.4
85°	11.1	10.7	17.3	48.1	102.6	550.8	924.1	776.1	418.9	42.6	53.8
87.5°	4.0	3.4	6.7	26.4	31.4	234.4	570.3	586.6	164.8	25.8	25.2
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°	2581.2	2581.2	2581.2	2581.2	2581.2	2581.2	2581.2	2581.2	2581.2	2581.2	2581.2
2.5°	2558.3	2523.5	2459.5	2394.0	2333.3	2260.4	2224.1	2188.1	2173.0	2167.4	2141.0
5°	2484.3	2425.3	2289.6	2153.3	2027.7	1894.3	1806.2	1735.5	1694.2	1673.9	1641.9
7.5°	2389.4	2293.1	2087.2	1876.9	1681.2	1488.3	1345.3	1235.3	1159.7	1123.2	1090.2
10°	2297.4	2169.0	1876.3	1589.8	1324.0	1068.3	870.8	727.8	636.4	594.4	567.5
12.5°	2215.0	2048.4	1672.7	1310.0	976.3	676.9	476.1	362.2	305.7	286.0	276.5
15°	2141.6	1937.5	1480.4	1044.2	661.2	386.9	260.1	221.5	212.4	212.4	211.5
17.5°	2072.0	1828.7	1294.8	794.6	414.9	236.7	197.9	192.9	192.9	195.1	195.1
20°	2005.3	1724.9	1115.3	570.3	261.2	187.8	178.9	177.8	178.9	181.6	181.6
22.5°	1948.2	1630.8	947.7	391.4	194.0	169.3	164.8	163.2	163.8	165.4	166.5
25°	1905.6	1551.2	789.6	265.2	167.2	154.1	149.2	146.3	144.1	144.1	145.3
27.5°	1878.5	1483.8	636.4	192.9	150.2	140.1	132.3	127.9	122.8	120.1	121.1
30°	1859.0	1420.0	492.9	157.6	134.6	124.4	114.4	107.1	99.8	96.5	97.6
32.5°	1851.6	1368.3	368.5	139.1	120.6	109.4	96.9	87.5	79.6	76.8	77.3
35°	1871.3	1327.3	269.8	125.7	109.4	95.3	81.2	70.6	64.5	62.8	63.4
37.5°	1922.9	1305.4	201.8	114.4	99.3	83.5	67.8	57.8	53.8	53.8	54.3
40°	2020.5	1304.9	162.1	106.5	90.3	72.4	56.1	48.8	46.5	47.7	48.1
42.5°	2162.8	1334.6	141.4	99.3	82.5	61.7	46.5	41.5	41.0	42.1	42.6
45°	2357.5	1389.0	130.2	93.1	74.0	51.7	39.3	35.9	35.9	37.5	38.2
47.5°	2595.8	1468.6	120.6	87.0	65.5	43.2	33.6	31.4	32.0	33.6	34.2
50°	2882.9	1569.0	111.0	80.2	59.5	35.9	29.1	27.5	28.0	30.4	30.8
52.5°	3209.9	1704.2	103.1	74.0	51.7	29.7	24.7	23.5	24.7	26.9	27.5
55°	3490.3	1825.3	93.7	69.0	41.5	24.7	20.2	20.2	21.3	24.2	24.7
57.5°	3759.9	1952.0	85.2	59.5	32.5	19.7	16.8	17.3	19.0	21.9	22.5
60°	4155.9	2166.8	75.2	49.9	24.7	15.7	14.1	14.6	16.8	19.7	20.2
62.5°	4828.2	2493.8	65.0	41.5	19.0	12.3	11.1	12.3	15.1	18.5	19.0
65°	5434.9	2626.6	53.3	34.8	14.6	9.5	9.5	11.1	14.6	18.0	18.5
67.5°	5096.9	2211.1	41.5	27.5	11.1	7.2	7.8	10.7	14.1	18.0	18.5
69°	4507.4	1807.8	35.4	21.9	9.5	6.7	7.2	10.7	14.1	17.3	18.0
70°	4048.2	1526.4	31.4	18.5	8.4	6.7	7.2	10.2	14.1	17.3	18.0
72.5°	2711.4	824.4	25.2	13.5	7.8	6.2	6.2	10.2	13.5	16.8	17.3
75°	1165.3	227.7	20.2	9.5	6.7	5.6	5.6	9.5	12.8	16.3	17.3
77.5°	213.1	57.8	16.3	8.4	6.7	5.6	5.0	9.0	12.3	15.7	16.3
80°	84.7	28.6	12.8	7.2	6.2	5.0	4.5	8.4	11.8	15.1	15.7
82.5°	51.1	16.3	10.7	6.7	6.2	4.5	4.0	7.2	11.1	14.6	15.1
85°	41.5	11.1	8.4	6.7	5.6	4.5	3.4	6.7	10.2	14.1	14.6
87.5°	20.2	7.8	7.8	6.2	5.6	4.5	3.4	6.2	9.5	13.5	14.1
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)