

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: P191911

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191911
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-03-LED-E1-SL3-7050-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 615mA 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: 10229 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 96
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

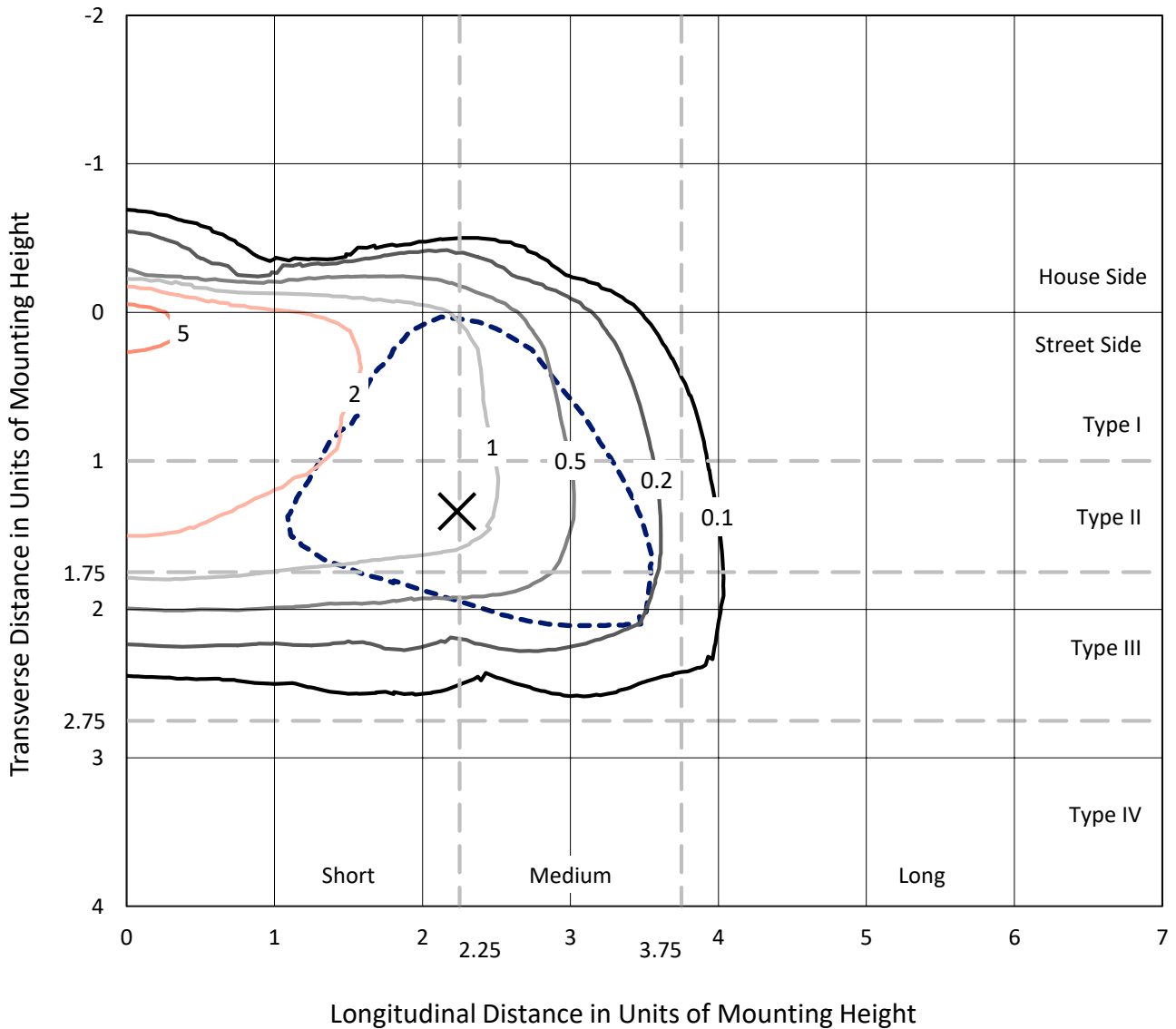


REPORT NUMBER: P191911

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-7050-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

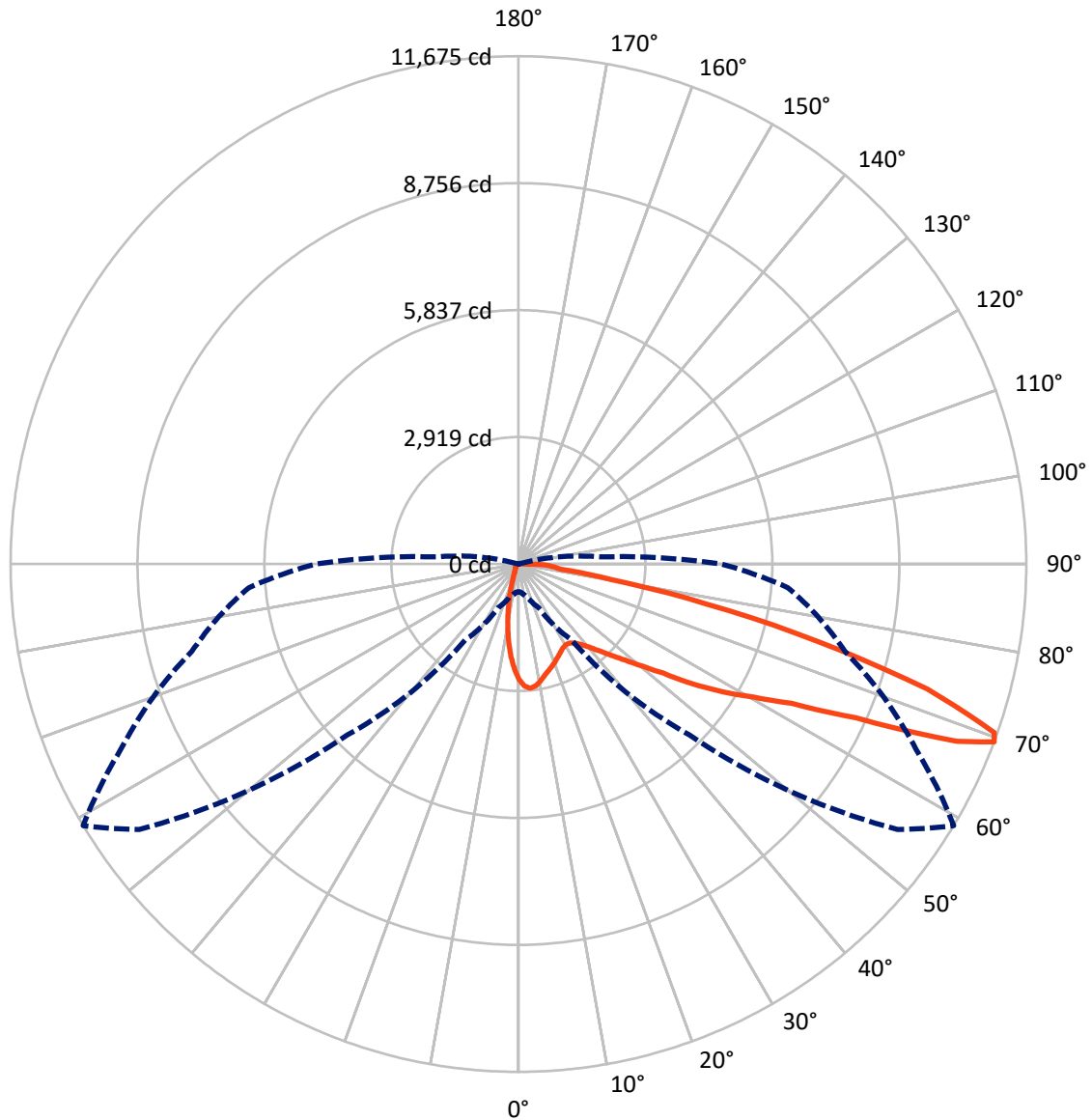


Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P191911

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-7050-600-HSS

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	833.0	0.0	833.0
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	9396.0	0.0	9396.0
	% Fixture	91.9	0.0	91.9
Total	Lumens	10229.0	0.0	10229.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.1	2.1
10°-20°	446.5	4.4
20°-30°	600.9	5.9
30°-40°	872.5	8.5
40°-50°	1452.7	14.2
50°-60°	2266.2	22.2
60°-70°	2804.2	27.4
70°-80°	1421.2	13.9
80°-90°	148.7	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°	10229.0	100.0
0°-180°	10229.0	100.0



REPORT NUMBER: P191911

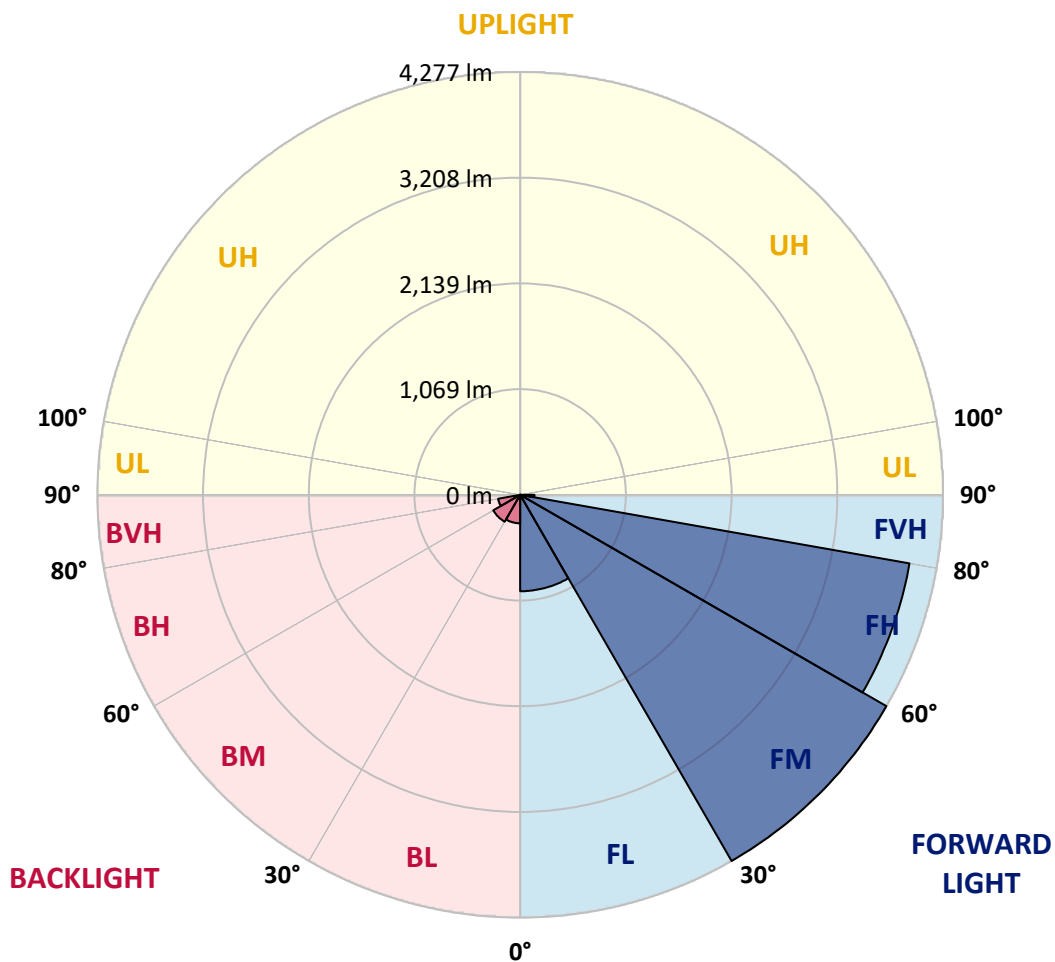
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	975.2	9.5			
FM (30°-60°)	4277.5	41.8			
FH (60°-80°)	3999.2	39.1			G2/5000
FVH (80°-90°)	144.1	1.4			G2/225
BL (0°-30°)	288.3	2.8	B1/500		
BM (30°-60°)	313.9	3.1	B1/1000		
BH (60°-80°)	226.2	2.2	B1/500		G1/500
BVH (80°-90°)	4.6	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





REPORT NUMBER: P191911

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-7050-600-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2662.5	2662.5	2662.5	2662.5	2662.5	2662.5	2662.5	2662.5	2662.5	2662.5	2662.5
2.5°	2918.1	2917.0	2904.2	2898.5	2888.1	2866.1	2831.9	2814.0	2785.1	2734.8	2667.1
5°	2891.5	2905.4	2912.9	2913.5	2921.0	2912.9	2882.3	2867.2	2827.3	2746.3	2624.9
7.5°	2711.1	2716.3	2737.7	2756.2	2792.0	2826.2	2837.2	2830.8	2807.1	2720.3	2558.9
10°	2517.9	2523.1	2548.5	2572.8	2621.4	2674.0	2729.6	2741.1	2751.0	2683.3	2495.3
12.5°	2351.3	2356.5	2382.5	2414.3	2471.0	2535.8	2622.0	2641.1	2684.4	2648.0	2444.4
15°	2207.8	2210.1	2235.6	2274.9	2342.6	2425.9	2523.6	2554.3	2620.8	2623.1	2399.9
17.5°	2085.8	2091.6	2107.2	2144.8	2218.8	2321.8	2435.7	2479.7	2557.8	2602.3	2356.5
20°	2011.2	2017.0	2016.4	2037.2	2103.7	2213.6	2347.8	2400.4	2495.3	2580.9	2317.7
22.5°	1996.7	1996.7	1981.7	1978.8	2018.1	2110.1	2256.4	2320.6	2439.2	2571.7	2290.5
25°	2048.2	2045.9	2008.3	1977.6	1979.4	2034.3	2167.9	2244.3	2391.8	2578.0	2276.1
27.5°	2156.9	2154.0	2106.6	2048.2	2001.3	2000.8	2100.8	2183.0	2354.2	2608.1	2281.9
30°	2307.3	2306.2	2254.7	2181.2	2096.2	2018.1	2077.7	2152.3	2329.9	2662.5	2295.2
32.5°	2471.6	2469.9	2431.1	2353.6	2246.0	2096.2	2102.0	2164.4	2336.8	2734.8	2327.6
35°	2645.7	2642.8	2626.0	2558.4	2439.8	2240.2	2181.8	2230.4	2380.8	2842.9	2391.2
37.5°	2834.3	2837.2	2849.3	2784.5	2660.2	2442.1	2315.4	2348.4	2469.3	2989.9	2494.7
40°	3112.5	3111.9	3115.9	3030.9	2911.2	2689.1	2502.2	2512.7	2617.4	3184.8	2652.1
42.5°	3617.4	3582.2	3475.1	3301.6	3181.3	2971.3	2737.7	2726.7	2798.4	3426.0	2872.4
45°	4295.9	4220.7	3943.1	3610.5	3456.6	3289.5	3027.5	2992.2	3037.9	3715.8	3144.3
47.5°	4879.6	4801.5	4408.7	3932.1	3748.7	3591.4	3367.0	3303.4	3318.4	4040.3	3489.0
50°	5077.9	5039.8	4696.8	4212.1	4031.6	3971.4	3760.9	3683.4	3662.0	4415.7	3888.7
52.5°	5009.1	5006.2	4777.7	4393.7	4290.7	4364.8	4256.6	4166.9	4088.3	4811.3	4295.3
55°	4898.6	4913.1	4810.7	4552.7	4549.3	4724.0	4934.5	4859.9	4632.0	5241.1	4645.9
57.5°	4593.8	4655.7	4792.2	4853.5	4995.8	5174.5	5499.0	5543.0	5273.5	5570.2	4936.8
60°	3727.3	3863.3	4309.8	4896.9	5571.3	6016.7	6180.4	6218.0	5799.8	5843.8	5329.6
62.5°	2645.7	2784.5	3350.8	4343.9	5580.0	7123.2	7195.5	7048.0	6379.4	6249.2	6006.9
65°	1404.4	1511.4	1974.1	3135.6	4837.9	7380.1	8970.7	8531.1	7402.0	7046.9	6882.0
67.5°	718.4	750.8	934.7	1534.5	3325.9	6555.2	10561.9	10871.4	9164.5	7838.2	6839.8
69°	635.7	654.8	776.8	1109.4	2129.7	5552.3	10639.5	11674.8	10087.1	7772.2	6215.7
70°	615.4	632.2	743.3	1004.1	1664.7	4656.3	10342.7	11604.3	10323.1	7521.2	5749.5
72.5°	522.3	536.8	661.7	887.3	1352.9	2311.4	8401.6	9833.1	9263.4	6265.4	4161.7
75°	349.4	396.8	635.1	831.8	1258.6	1313.0	5538.9	7105.9	6600.9	4225.9	2167.9
77.5°	83.9	90.2	179.3	661.7	1151.1	1155.7	2848.7	4417.4	3603.0	1506.2	512.5
80°	45.1	43.4	50.3	131.3	1071.8	1084.5	1282.4	2144.2	1286.4	249.9	168.9
82.5°	31.8	30.1	32.4	54.9	337.2	987.9	927.8	970.6	533.3	96.0	75.8
85°	11.6	11.0	17.9	49.7	105.9	568.0	953.2	800.5	432.1	44.0	55.5
87.5°	4.0	3.5	6.9	27.2	32.4	241.8	588.3	605.0	170.1	26.6	26.0
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°	2662.5	2662.5	2662.5	2662.5	2662.5	2662.5	2662.5	2662.5	2662.5	2662.5	2662.5
2.5°	2638.8	2602.9	2537.0	2469.3	2406.8	2331.6	2294.0	2257.0	2241.4	2235.6	2208.4
5°	2562.4	2501.7	2361.7	2221.1	2091.6	1953.9	1863.1	1790.2	1747.4	1726.6	1693.6
7.5°	2464.6	2365.2	2152.9	1936.0	1734.1	1535.1	1387.6	1274.3	1196.2	1158.6	1124.4
10°	2369.8	2237.3	1935.4	1639.8	1365.6	1101.9	898.3	750.8	656.5	613.1	585.4
12.5°	2284.8	2113.0	1725.4	1351.2	1007.0	698.2	491.1	373.7	315.2	295.0	285.2
15°	2209.0	1998.4	1527.0	1077.0	682.0	399.1	268.4	228.5	219.2	219.2	218.1
17.5°	2137.3	1886.2	1335.6	819.6	428.0	244.1	204.2	199.0	199.0	201.3	201.3
20°	2068.4	1779.2	1150.5	588.3	269.5	193.8	184.5	183.4	184.5	187.4	187.4
22.5°	2009.4	1682.0	977.5	403.7	200.1	174.7	170.1	168.3	168.9	170.6	171.8
25°	1965.5	1599.9	814.4	273.6	172.4	159.1	153.9	151.0	148.7	148.7	149.8
27.5°	1937.7	1530.5	656.5	199.0	155.0	144.6	136.5	131.9	126.7	123.8	124.9
30°	1917.5	1464.6	508.4	162.5	138.8	128.4	118.0	110.5	103.0	99.5	100.6
32.5°	1909.9	1411.3	380.0	143.4	124.4	112.8	100.1	90.2	82.1	79.2	79.8
35°	1930.2	1369.1	278.2	129.6	112.8	98.3	83.9	72.9	66.5	64.8	65.4
37.5°	1983.4	1346.6	208.2	118.0	102.4	86.2	70.0	59.6	55.5	55.5	56.1
40°	2084.0	1346.0	167.2	109.9	93.1	74.6	57.8	50.3	48.0	49.2	49.7
42.5°	2231.0	1376.6	145.8	102.4	85.0	63.6	48.0	42.8	42.2	43.4	44.0
45°	2431.7	1432.7	134.2	96.0	76.4	53.2	40.5	37.0	37.0	38.8	39.3
47.5°	2677.5	1514.9	124.4	89.7	67.7	44.5	34.7	32.4	33.0	34.7	35.3
50°	2973.7	1618.4	114.5	82.7	61.3	37.0	30.1	28.3	28.9	31.2	31.8
52.5°	3310.9	1757.8	106.4	76.4	53.2	30.7	25.5	24.3	25.5	27.8	28.3
55°	3600.1	1882.8	96.6	71.1	42.8	25.5	20.8	20.8	22.0	24.9	25.5
57.5°	3878.3	2013.5	87.9	61.3	33.5	20.2	17.4	17.9	19.7	22.6	23.1
60°	4286.7	2235.0	77.5	51.5	25.5	16.2	14.5	15.0	17.4	20.2	20.8
62.5°	4980.2	2572.2	67.1	42.8	19.7	12.7	11.6	12.7	15.6	19.1	19.7
65°	5606.0	2709.3	54.9	35.9	15.0	9.8	9.8	11.6	15.0	18.5	19.1
67.5°	5257.3	2280.7	42.8	28.3	11.6	7.5	8.1	11.0	14.5	18.5	19.1
69°	4649.3	1864.8	36.4	22.6	9.8	6.9	7.5	11.0	14.5	17.9	18.5
70°	4175.6	1574.5	32.4	19.1	8.7	6.9	7.5	10.4	14.5	17.9	18.5
72.5°	2796.7	850.3	26.0	13.9	8.1	6.4	6.4	10.4	13.9	17.4	17.9
75°	1202.0	234.8	20.8	9.8	6.9	5.8	5.8	9.8	13.3	16.8	17.9
77.5°	219.8	59.6	16.8	8.7	6.9	5.8	5.2	9.3	12.7	16.2	16.8
80°	87.3	29.5	13.3	7.5	6.4	5.2	4.6	8.7	12.1	15.6	16.2
82.5°	52.6	16.8	11.0	6.9	6.4	4.6	4.0	7.5	11.6	15.0	15.6
85°	42.8	11.6	8.7	6.9	5.8	4.6	3.5	6.9	10.4	14.5	15.0
87.5°	20.8	8.1	8.1	6.4	5.8	4.6	3.5	6.4	9.8	13.9	14.5
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)