

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: P299995

Luminaire Tested: **GLNA-AF-03-LED-E1-SL3-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194479)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-03-LED-E1-SL3-7030-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8986.2 lumens
Efficiency: N/A
Efficacy: 93.6 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

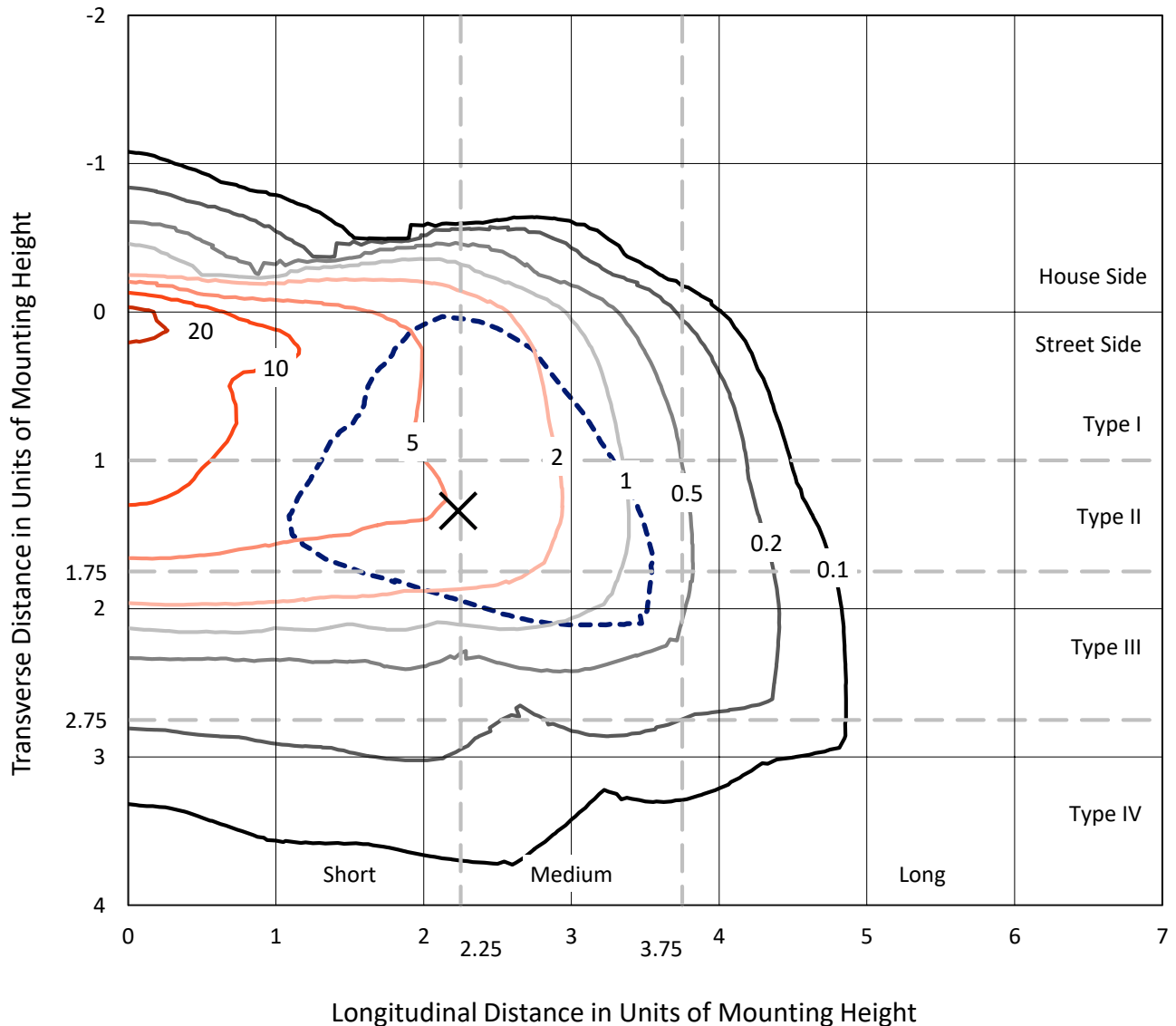


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

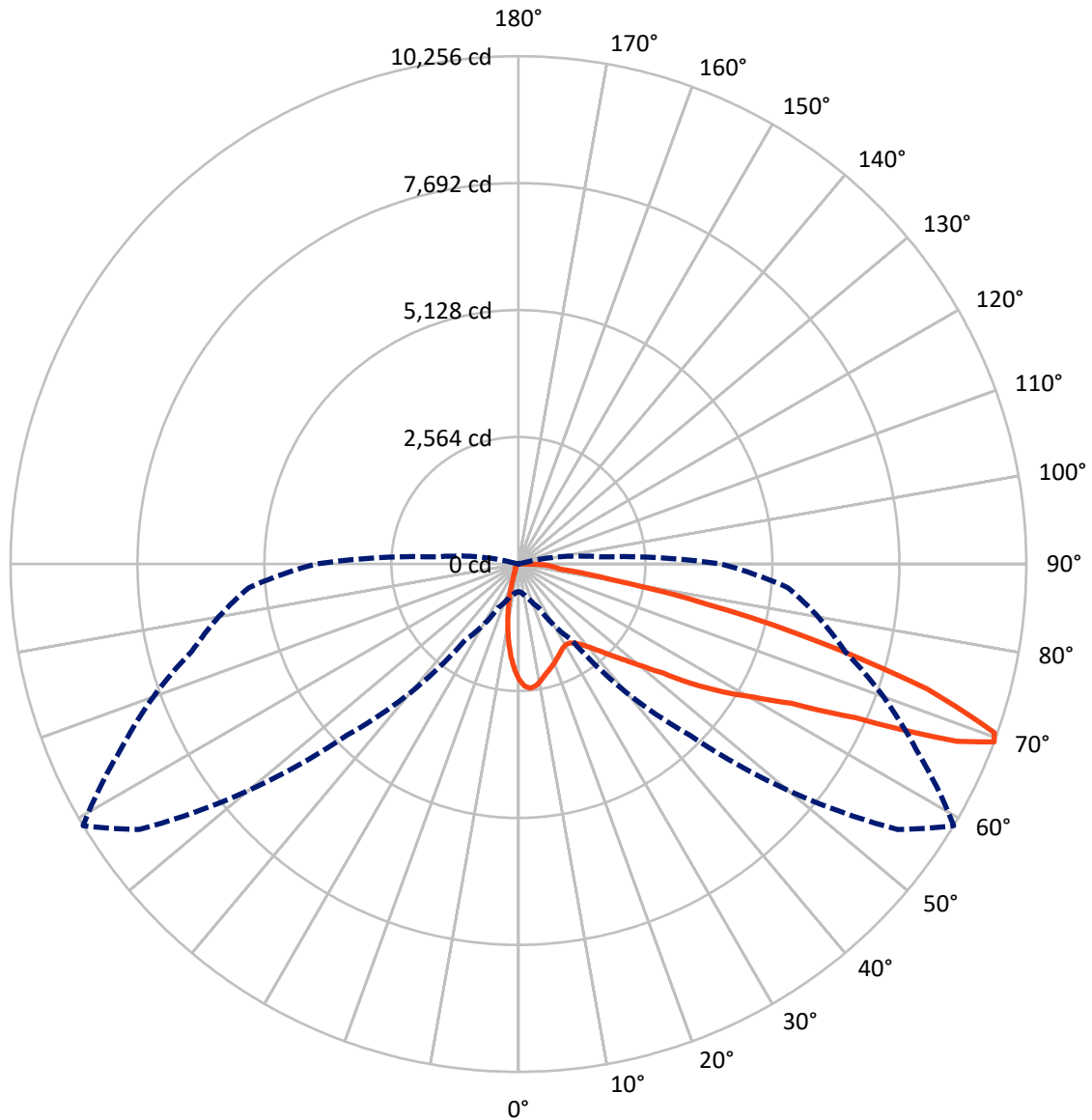


Based on 10 foot mounting height. Maximum calculated value = 23.5 fc
 Type III - Short - Non-Cutoff

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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	731.8	0.0	731.8
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	8254.4	0.0	8254.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	8986.2	0.0	8986.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	2.1
10°-20°	392.3	4.4
20°-30°	527.9	5.9
30°-40°	766.4	8.5
40°-50°	1276.2	14.2
50°-60°	1990.8	22.2
60°-70°	2463.5	27.4
70°-80°	1248.5	13.9
80°-90°	130.6	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°	8986.2	100.0
0°-180°	8986.2	100.0



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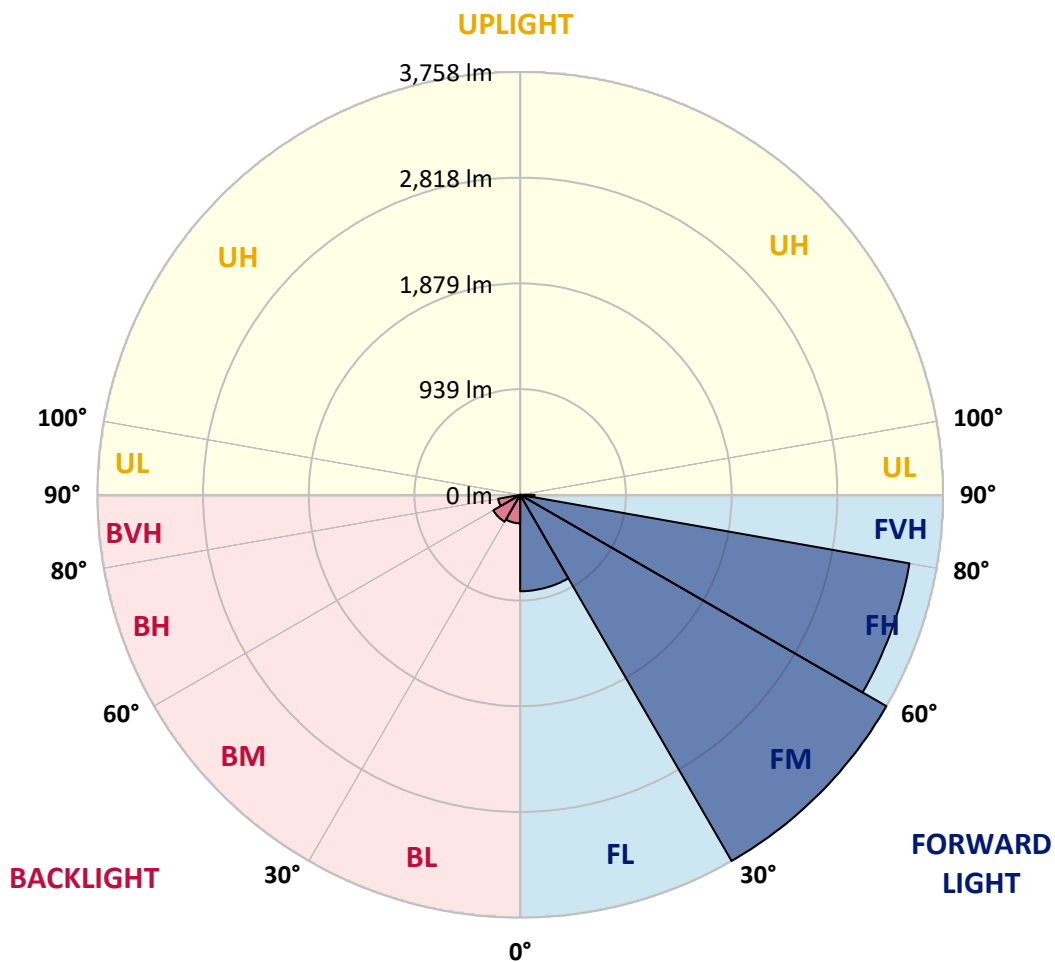
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	856.7	9.5			
FM (30°-60°)	3757.7	41.8			
FH (60°-80°)	3513.3	39.1			G2/5000
FVH (80°-90°)	126.6	1.4			G2/225
BL (0°-30°)	253.3	2.8	B1/500		
BM (30°-60°)	275.7	3.1	B1/1000		
BH (60°-80°)	198.7	2.2	B1/500		G1/500
BVH (80°-90°)	4.0	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°	2338.9	2338.9	2338.9	2338.9	2338.9	2338.9	2338.9	2338.9	2338.9	2338.9	2338.9
2.5°	2563.5	2562.6	2551.4	2546.3	2537.1	2517.8	2487.8	2472.2	2446.8	2402.5	2343.1
5°	2540.2	2552.5	2558.9	2559.5	2566.2	2558.9	2532.0	2518.9	2483.8	2412.6	2306.0
7.5°	2381.7	2386.2	2405.1	2421.2	2452.8	2482.8	2492.5	2486.8	2466.0	2389.8	2248.0
10°	2212.0	2216.5	2238.9	2260.2	2302.9	2349.1	2397.8	2408.2	2416.8	2357.2	2192.2
12.5°	2065.5	2070.2	2093.1	2120.9	2170.8	2227.7	2303.4	2320.2	2358.3	2326.3	2147.4
15°	1939.5	1941.5	1964.0	1998.5	2058.0	2131.1	2217.1	2244.0	2302.5	2304.5	2108.3
17.5°	1832.3	1837.4	1851.2	1884.2	1949.2	2039.7	2139.8	2178.5	2246.9	2286.2	2070.2
20°	1766.8	1771.8	1771.4	1789.7	1848.2	1944.6	2062.6	2108.8	2192.2	2267.4	2036.2
22.5°	1754.2	1754.2	1740.9	1738.3	1772.9	1853.7	1982.3	2038.6	2142.8	2259.2	2012.3
25°	1799.4	1797.2	1764.3	1737.4	1738.9	1787.1	1904.5	1971.5	2101.2	2264.8	1999.5
27.5°	1894.9	1892.3	1850.6	1799.4	1758.2	1757.7	1845.5	1917.7	2068.2	2291.2	2004.6
30°	2026.9	2026.0	1980.8	1916.2	1841.5	1772.9	1825.2	1890.8	2046.8	2338.9	2016.3
32.5°	2171.2	2169.7	2135.7	2067.7	1973.1	1841.5	1846.6	1901.5	2052.9	2402.5	2044.8
35°	2324.3	2321.7	2306.9	2247.5	2143.4	1968.0	1916.8	1959.4	2091.5	2497.5	2100.6
37.5°	2489.8	2492.5	2503.1	2446.2	2336.9	2145.4	2034.2	2063.1	2169.2	2626.6	2191.5
40°	2734.3	2733.8	2737.4	2662.6	2557.5	2362.3	2198.2	2207.4	2299.4	2797.8	2329.8
42.5°	3177.8	3146.9	3052.9	2900.5	2794.8	2610.3	2405.1	2395.4	2458.5	3009.7	2523.4
45°	3774.0	3707.8	3464.0	3171.8	3036.6	2889.8	2659.5	2628.6	2668.8	3264.3	2762.3
47.5°	4286.6	4218.0	3873.1	3454.3	3293.2	3155.1	2957.8	2902.0	2915.2	3549.4	3065.1
50°	4460.9	4427.4	4126.2	3700.3	3541.7	3488.9	3304.0	3235.8	3217.1	3879.1	3416.2
52.5°	4400.5	4398.0	4197.2	3859.8	3769.4	3834.5	3739.4	3660.6	3591.5	4226.8	3773.4
55°	4303.4	4316.2	4226.2	3999.5	3996.5	4150.0	4334.9	4269.4	4069.2	4604.3	4081.4
57.5°	4035.7	4090.0	4210.0	4263.8	4388.8	4545.9	4830.9	4869.5	4632.8	4893.4	4336.9
60°	3274.5	3393.8	3786.2	4301.8	4894.5	5285.7	5429.5	5462.5	5095.1	5133.7	4682.0
62.5°	2324.3	2446.2	2943.7	3816.2	4902.0	6257.7	6321.2	6191.7	5604.3	5490.0	5277.1
65°	1233.7	1327.8	1734.3	2754.6	4250.2	6483.4	7880.8	7494.6	6502.6	6190.6	6045.9
67.5°	631.1	659.5	821.2	1348.2	2921.8	5758.8	9278.6	9550.5	8050.9	6885.9	6008.8
69°	558.5	575.2	682.5	974.6	1870.9	4877.7	9346.8	10256.3	8861.5	6827.9	5460.5
70°	540.6	555.4	652.9	882.2	1462.5	4090.5	9086.0	10194.3	9068.8	6607.4	5050.9
72.5°	458.9	471.5	581.4	779.5	1188.6	2030.5	7380.8	8638.5	8137.9	5504.2	3656.0
75°	306.9	348.6	558.0	730.8	1105.7	1153.5	4866.0	6242.5	5798.9	3712.5	1904.5
77.5°	73.7	79.2	157.5	581.4	1011.2	1015.2	2502.6	3880.6	3165.2	1323.2	450.2
80°	39.7	38.2	44.2	115.4	941.5	952.8	1126.6	1883.7	1130.2	219.5	148.3
82.5°	28.0	26.5	28.5	48.3	296.3	867.8	815.1	852.6	468.5	84.3	66.6
85°	10.2	9.7	15.7	43.7	92.9	498.9	837.4	703.2	379.5	38.6	48.8
87.5°	3.5	3.1	6.2	23.8	28.5	212.5	516.8	531.5	149.4	23.4	22.9
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°	2338.9	2338.9	2338.9	2338.9	2338.9	2338.9	2338.9	2338.9	2338.9	2338.9	2338.9
2.5°	2318.2	2286.6	2228.8	2169.2	2114.3	2048.3	2015.2	1982.8	1969.1	1964.0	1940.2
5°	2251.1	2197.7	2074.8	1951.2	1837.4	1716.5	1636.8	1572.8	1535.1	1516.8	1487.8
7.5°	2165.2	2077.8	1891.2	1700.8	1523.4	1348.6	1219.1	1119.4	1050.8	1017.8	987.8
10°	2081.8	1965.5	1700.3	1440.6	1199.7	968.0	789.1	659.5	576.8	538.6	514.3
12.5°	2007.2	1856.3	1515.8	1187.1	884.6	613.4	431.4	328.3	276.9	259.1	250.5
15°	1940.6	1755.7	1341.5	946.2	599.1	350.6	235.8	200.8	192.6	192.6	191.5
17.5°	1877.5	1657.1	1173.2	720.0	376.0	214.5	179.4	174.8	174.8	176.8	176.8
20°	1817.1	1563.1	1010.6	516.8	236.8	170.2	162.2	161.1	162.2	164.6	164.6
22.5°	1765.2	1477.7	858.8	354.6	175.8	153.4	149.4	147.8	148.3	149.8	150.9
25°	1726.6	1405.5	715.5	240.3	151.4	139.7	135.2	132.6	130.6	130.6	131.5
27.5°	1702.3	1344.6	576.8	174.8	136.2	127.1	119.8	115.8	111.2	108.8	109.7
30°	1684.5	1286.6	446.6	142.8	122.0	112.8	103.7	97.1	90.5	87.4	88.5
32.5°	1677.8	1239.8	333.8	126.0	109.2	99.1	87.8	79.2	72.2	69.5	70.2
35°	1695.7	1202.8	244.5	113.8	99.1	86.3	73.7	64.0	58.5	56.9	57.4
37.5°	1742.5	1182.9	182.9	103.7	90.0	75.7	61.5	52.3	48.8	48.8	49.2
40°	1830.8	1182.5	146.9	96.6	81.8	65.5	50.8	44.2	42.2	43.2	43.7
42.5°	1959.8	1209.4	128.0	90.0	74.8	55.8	42.2	37.5	37.1	38.2	38.6
45°	2136.2	1258.6	117.8	84.3	67.1	46.8	35.5	32.5	32.5	34.0	34.6
47.5°	2352.2	1330.8	109.2	78.8	59.4	39.1	30.5	28.5	28.9	30.5	30.9
50°	2612.3	1421.8	100.6	72.6	53.8	32.5	26.5	24.9	25.4	27.4	28.0
52.5°	2908.6	1544.3	93.5	67.1	46.8	26.9	22.3	21.4	22.3	24.5	24.9
55°	3162.6	1654.0	84.9	62.5	37.5	22.3	18.3	18.3	19.4	21.8	22.3
57.5°	3407.1	1768.8	77.2	53.8	29.5	17.8	15.2	15.7	17.2	19.8	20.3
60°	3765.8	1963.4	68.2	45.2	22.3	14.2	12.8	13.2	15.2	17.8	18.3
62.5°	4375.1	2259.7	58.9	37.5	17.2	11.2	10.2	11.2	13.7	16.8	17.2
65°	4924.9	2380.2	48.3	31.5	13.2	8.6	8.6	10.2	13.2	16.3	16.8
67.5°	4618.5	2003.5	37.5	24.9	10.2	6.6	7.1	9.7	12.8	16.3	16.8
69°	4084.5	1638.3	32.0	19.8	8.6	6.2	6.6	9.7	12.8	15.7	16.3
70°	3668.3	1383.2	28.5	16.8	7.7	6.2	6.6	9.1	12.8	15.7	16.3
72.5°	2456.9	746.9	22.9	12.2	7.1	5.5	5.5	9.1	12.2	15.2	15.7
75°	1055.8	206.3	18.3	8.6	6.2	5.1	5.1	8.6	11.7	14.8	15.7
77.5°	193.1	52.3	14.8	7.7	6.2	5.1	4.6	8.2	11.2	14.2	14.8
80°	76.8	25.8	11.7	6.6	5.5	4.6	4.0	7.7	10.6	13.7	14.2
82.5°	46.3	14.8	9.7	6.2	5.5	4.0	3.5	6.6	10.2	13.2	13.7
85°	37.5	10.2	7.7	6.2	5.1	4.0	3.1	6.2	9.1	12.8	13.2
87.5°	18.3	7.1	7.1	5.5	5.1	4.0	3.1	5.5	8.6	12.2	12.8
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)