

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: P191920

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191920
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-SL3-7050-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 800mA 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: 8407 lumens
Efficiency: N/A
Efficacy: 98.9 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): 85
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

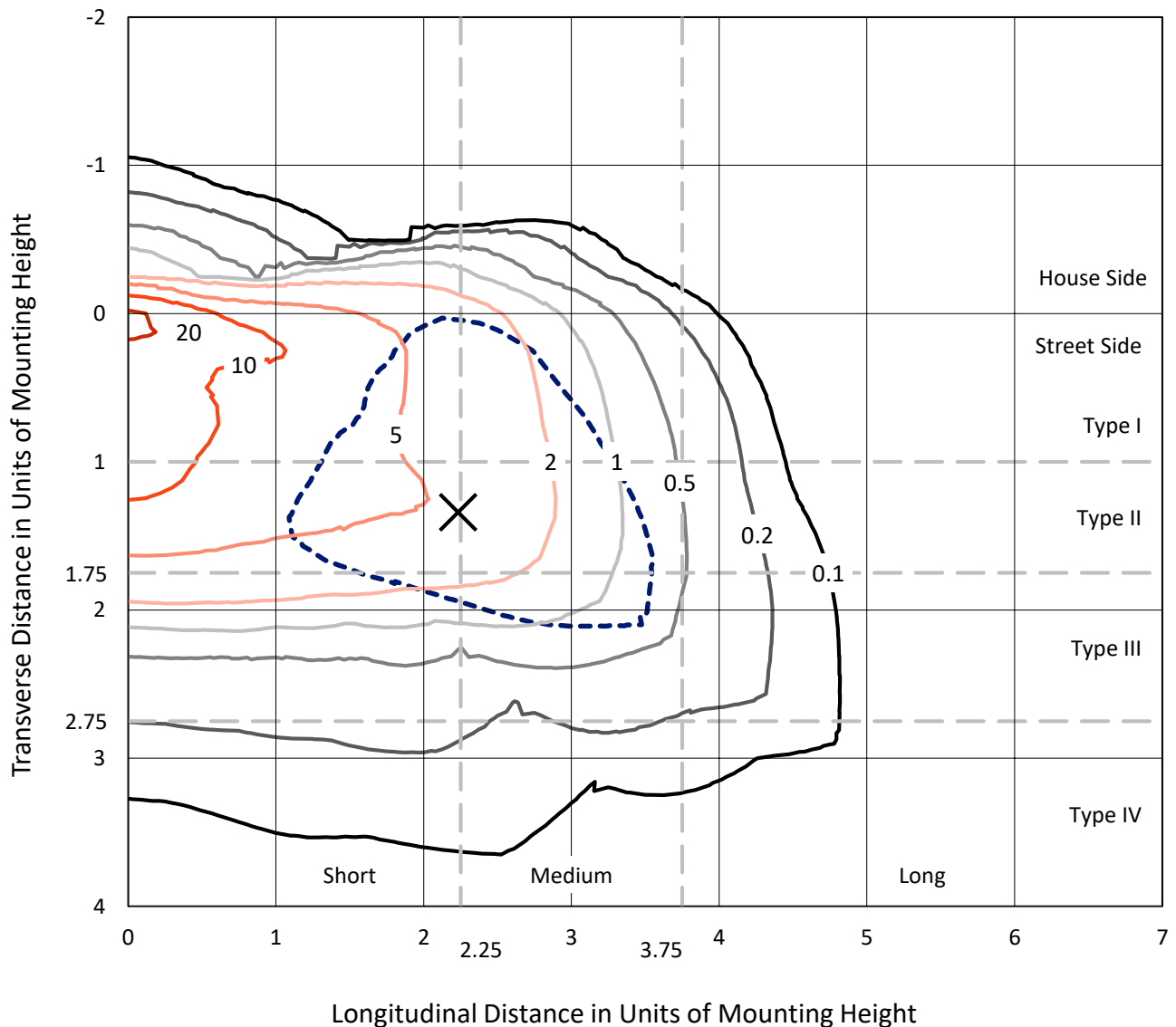


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

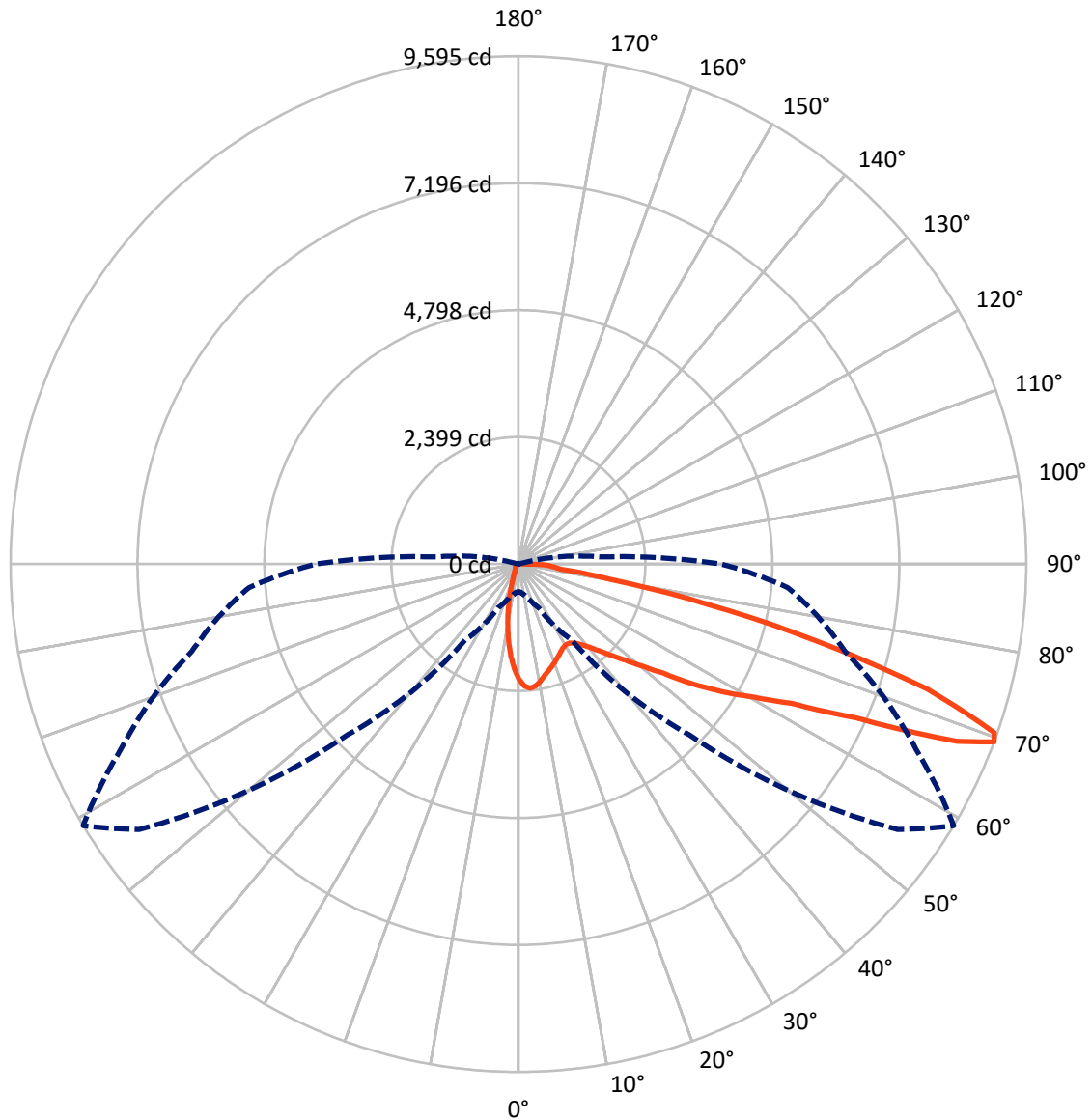


Based on 10 foot mounting height. Maximum calculated value = 22 fc
 Type III - Short - Non-Cutoff

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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	684.6	0.0	684.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	7722.4	0.0	7722.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	8407.0	0.0	8407.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	2.1
10°-20°	367.0	4.4
20°-30°	493.9	5.9
30°-40°	717.0	8.5
40°-50°	1193.9	14.2
50°-60°	1862.5	22.2
60°-70°	2304.7	27.4
70°-80°	1168.0	13.9
80°-90°	122.2	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°	8407.0	100.0
0°-180°	8407.0	100.0



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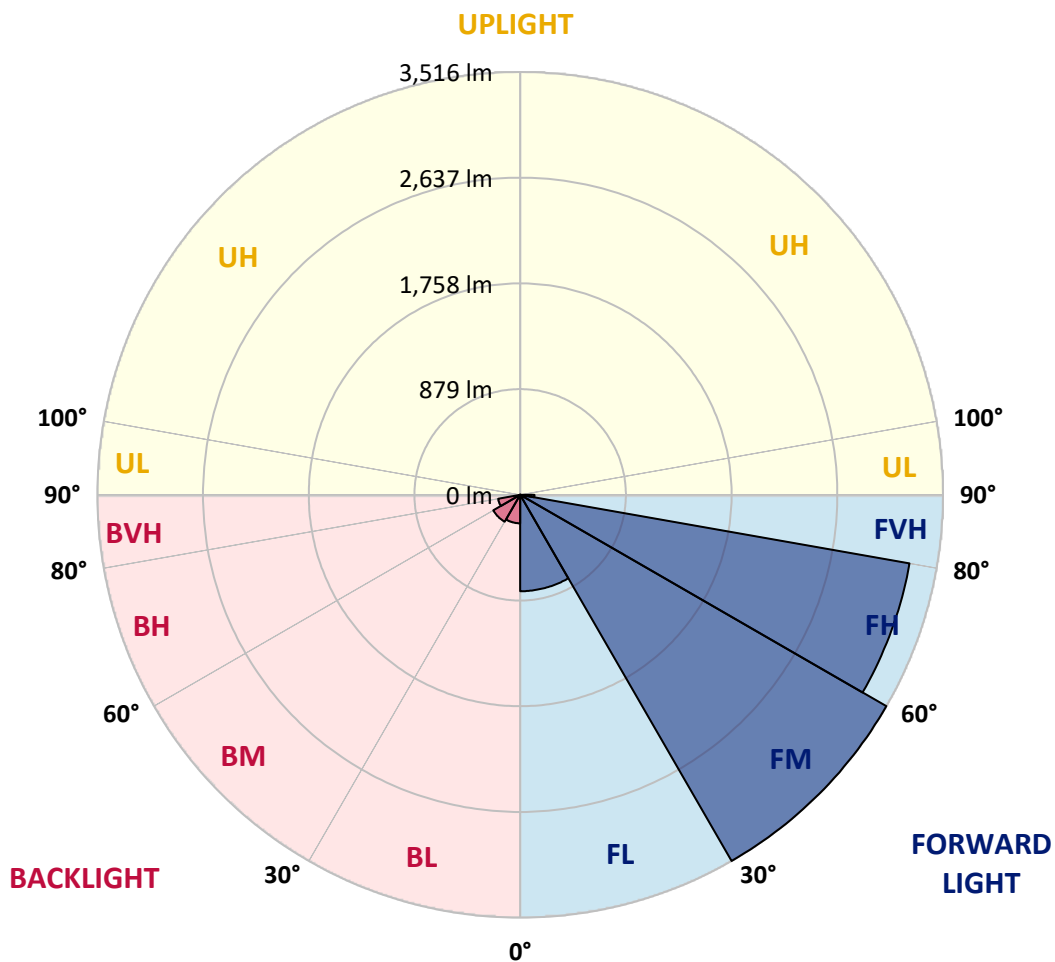
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	801.5	9.5			
FM	(30°-60°)	3515.6	41.8			
FH	(60°-80°)	3286.8	39.1			G2/5000
FVH	(80°-90°)	118.5	1.4			G2/225
BL	(0°-30°)	237.0	2.8	B1/500		
BM	(30°-60°)	258.0	3.1	B1/1000		
BH	(60°-80°)	185.9	2.2	B1/500		G1/500
BVH	(80°-90°)	3.8	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°	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2
2.5°	2398.3	2397.4	2386.9	2382.2	2373.6	2355.6	2327.5	2312.8	2289.0	2247.6	2192.0
5°	2376.5	2387.9	2394.1	2394.5	2400.7	2394.1	2368.9	2356.5	2323.7	2257.2	2157.3
7.5°	2228.2	2232.4	2250.0	2265.2	2294.7	2322.8	2331.8	2326.6	2307.1	2235.8	2103.1
10°	2069.4	2073.7	2094.6	2114.5	2154.5	2197.7	2243.4	2252.9	2261.0	2205.3	2050.8
12.5°	1932.5	1936.7	1958.1	1984.3	2030.9	2084.1	2154.9	2170.6	2206.3	2176.3	2009.0
15°	1814.6	1816.5	1837.4	1869.7	1925.3	1993.8	2074.1	2099.3	2154.0	2155.9	1972.4
17.5°	1714.3	1719.0	1731.9	1762.8	1823.6	1908.2	2001.9	2038.0	2102.2	2138.8	1936.7
20°	1652.9	1657.7	1657.2	1674.3	1729.0	1819.3	1929.6	1972.9	2050.8	2121.2	1904.9
22.5°	1641.1	1641.1	1628.7	1626.3	1658.6	1734.2	1854.5	1907.3	2004.7	2113.6	1882.5
25°	1683.4	1681.5	1650.6	1625.4	1626.8	1672.0	1781.8	1844.5	1965.7	2118.8	1870.7
27.5°	1772.7	1770.4	1731.4	1683.4	1644.9	1644.4	1726.6	1794.1	1934.8	2143.5	1875.4
30°	1896.3	1895.4	1853.1	1792.7	1722.8	1658.6	1707.6	1768.9	1914.9	2188.2	1886.4
32.5°	2031.3	2029.9	1998.1	1934.4	1845.9	1722.8	1727.6	1778.9	1920.6	2247.6	1913.0
35°	2174.4	2172.1	2158.3	2102.7	2005.2	1841.2	1793.2	1833.1	1956.7	2336.5	1965.3
37.5°	2329.4	2331.8	2341.8	2288.5	2186.3	2007.1	1903.0	1930.1	2029.4	2457.3	2050.4
40°	2558.1	2557.6	2560.9	2491.1	2392.6	2210.1	2056.5	2065.1	2151.1	2617.5	2179.7
42.5°	2973.1	2944.1	2856.2	2713.5	2614.7	2442.1	2250.0	2241.0	2299.9	2815.7	2360.8
45°	3530.7	3468.9	3240.7	2967.4	2840.9	2703.5	2488.2	2459.2	2496.8	3053.9	2584.2
47.5°	4010.4	3946.2	3623.4	3231.7	3081.0	2951.7	2767.3	2715.0	2727.3	3320.6	2867.6
50°	4173.5	4142.1	3860.2	3461.8	3313.5	3264.0	3091.0	3027.3	3009.7	3629.1	3196.1
52.5°	4116.9	4114.5	3926.7	3611.1	3526.5	3587.3	3498.4	3424.7	3360.1	3954.3	3530.3
55°	4026.1	4038.0	3953.8	3741.8	3739.0	3882.5	4055.6	3994.2	3806.9	4307.5	3818.3
57.5°	3775.6	3826.4	3938.6	3989.0	4106.0	4252.9	4519.5	4555.7	4334.1	4578.0	4057.5
60°	3063.4	3175.1	3542.1	4024.7	4579.0	4945.0	5079.6	5110.5	4766.7	4802.9	4380.3
62.5°	2174.4	2288.5	2753.9	3570.2	4586.1	5854.4	5913.9	5792.6	5243.1	5136.1	4936.9
65°	1154.2	1242.2	1622.5	2577.1	3976.2	6065.5	7372.8	7011.5	6083.6	5791.7	5656.2
67.5°	590.4	617.1	768.2	1261.2	2733.5	5387.6	8680.6	8935.0	7532.1	6442.0	5621.5
69°	522.5	538.1	638.5	911.8	1750.4	4563.3	8744.3	9595.3	8290.3	6387.8	5108.6
70°	505.8	519.6	610.9	825.3	1368.2	3826.9	8500.5	9537.3	8484.3	6181.5	4725.4
72.5°	429.3	441.2	543.8	729.3	1111.9	1899.7	6905.1	8081.7	7613.4	5149.4	3420.4
75°	287.1	326.1	522.0	683.6	1034.5	1079.1	4552.3	5840.2	5425.2	3473.2	1781.8
77.5°	68.9	74.2	147.4	543.8	946.0	949.8	2341.3	3630.6	2961.2	1237.9	421.2
80°	37.1	35.7	41.4	107.9	880.9	891.4	1053.9	1762.3	1057.3	205.4	138.8
82.5°	26.1	24.7	26.6	45.2	277.2	812.0	762.5	797.7	438.3	78.9	62.3
85°	9.5	9.0	14.7	40.9	87.0	466.8	783.4	657.9	355.1	36.1	45.6
87.5°	3.3	2.9	5.7	22.3	26.6	198.7	483.5	497.3	139.8	21.9	21.4
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°	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2
2.5°	2168.7	2139.3	2085.1	2029.4	1978.1	1916.3	1885.4	1855.0	1842.1	1837.4	1815.0
5°	2106.0	2056.1	1941.0	1825.5	1719.0	1605.9	1531.2	1471.3	1436.2	1419.0	1391.9
7.5°	2025.6	1943.9	1769.4	1591.1	1425.2	1261.7	1140.5	1047.3	983.1	952.2	924.2
10°	1947.7	1838.8	1590.7	1347.7	1122.4	905.6	738.3	617.1	539.6	503.9	481.1
12.5°	1877.8	1736.6	1418.1	1110.5	827.7	573.8	403.6	307.1	259.1	242.4	234.4
15°	1815.5	1642.5	1255.0	885.2	560.5	328.0	220.6	187.8	180.2	180.2	179.2
17.5°	1756.6	1550.3	1097.7	673.6	351.8	200.6	167.8	163.5	163.5	165.4	165.4
20°	1700.0	1462.3	945.6	483.5	221.5	159.3	151.6	150.7	151.6	154.0	154.0
22.5°	1651.5	1382.4	803.4	331.8	164.5	143.6	139.8	138.3	138.8	140.2	141.2
25°	1615.4	1314.9	669.4	224.9	141.7	130.7	126.5	124.1	122.2	122.2	123.1
27.5°	1592.6	1257.9	539.6	163.5	127.4	118.8	112.2	108.4	104.1	101.7	102.7
30°	1575.9	1203.7	417.9	133.6	114.1	105.5	97.0	90.8	84.6	81.8	82.7
32.5°	1569.7	1160.0	312.3	117.9	102.2	92.7	82.2	74.2	67.5	65.1	65.6
35°	1586.4	1125.3	228.7	106.5	92.7	80.8	68.9	59.9	54.7	53.2	53.7
37.5°	1630.1	1106.7	171.1	97.0	84.1	70.8	57.5	49.0	45.6	45.6	46.1
40°	1712.8	1106.2	137.4	90.3	76.5	61.3	47.5	41.4	39.5	40.4	40.9
42.5°	1833.6	1131.4	119.8	84.1	69.9	52.3	39.5	35.2	34.7	35.7	36.1
45°	1998.5	1177.5	110.3	78.9	62.8	43.7	33.3	30.4	30.4	31.9	32.3
47.5°	2200.6	1245.0	102.2	73.7	55.6	36.6	28.5	26.6	27.1	28.5	29.0
50°	2444.0	1330.1	94.1	68.0	50.4	30.4	24.7	23.3	23.8	25.7	26.1
52.5°	2721.1	1444.7	87.5	62.8	43.7	25.2	20.9	20.0	20.9	22.8	23.3
55°	2958.8	1547.4	79.4	58.5	35.2	20.9	17.1	17.1	18.1	20.4	20.9
57.5°	3187.5	1654.8	72.3	50.4	27.6	16.6	14.3	14.7	16.2	18.5	19.0
60°	3523.1	1836.9	63.7	42.3	20.9	13.3	11.9	12.4	14.3	16.6	17.1
62.5°	4093.1	2114.1	55.1	35.2	16.2	10.5	9.5	10.5	12.8	15.7	16.2
65°	4607.5	2226.7	45.2	29.5	12.4	8.1	8.1	9.5	12.4	15.2	15.7
67.5°	4320.8	1874.5	35.2	23.3	9.5	6.2	6.7	9.0	11.9	15.2	15.7
69°	3821.2	1532.7	29.9	18.5	8.1	5.7	6.2	9.0	11.9	14.7	15.2
70°	3431.8	1294.0	26.6	15.7	7.1	5.7	6.2	8.6	11.9	14.7	15.2
72.5°	2298.5	698.8	21.4	11.4	6.7	5.2	5.2	8.6	11.4	14.3	14.7
75°	987.9	193.0	17.1	8.1	5.7	4.8	4.8	8.1	10.9	13.8	14.7
77.5°	180.6	49.0	13.8	7.1	5.7	4.8	4.3	7.6	10.5	13.3	13.8
80°	71.8	24.2	10.9	6.2	5.2	4.3	3.8	7.1	10.0	12.8	13.3
82.5°	43.3	13.8	9.0	5.7	5.2	3.8	3.3	6.2	9.5	12.4	12.8
85°	35.2	9.5	7.1	5.7	4.8	3.8	2.9	5.7	8.6	11.9	12.4
87.5°	17.1	6.7	6.7	5.2	4.8	3.8	2.9	5.2	8.1	11.4	11.9
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)