

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: P199952

Luminaire Tested: **GPC-AF-02-LED-E1-SL2-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-02-LED-E1-SL2-7030-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9951.3 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

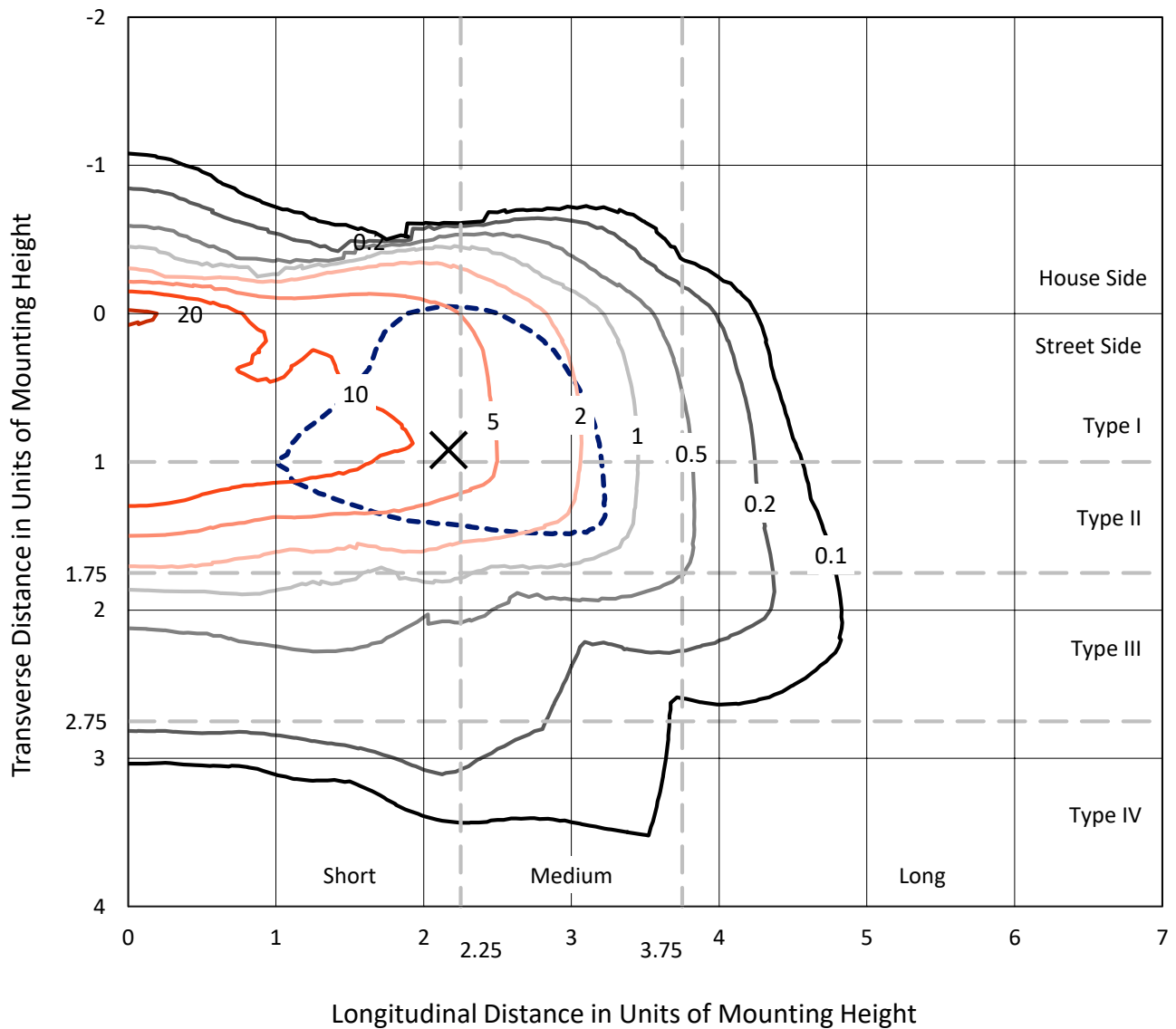
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

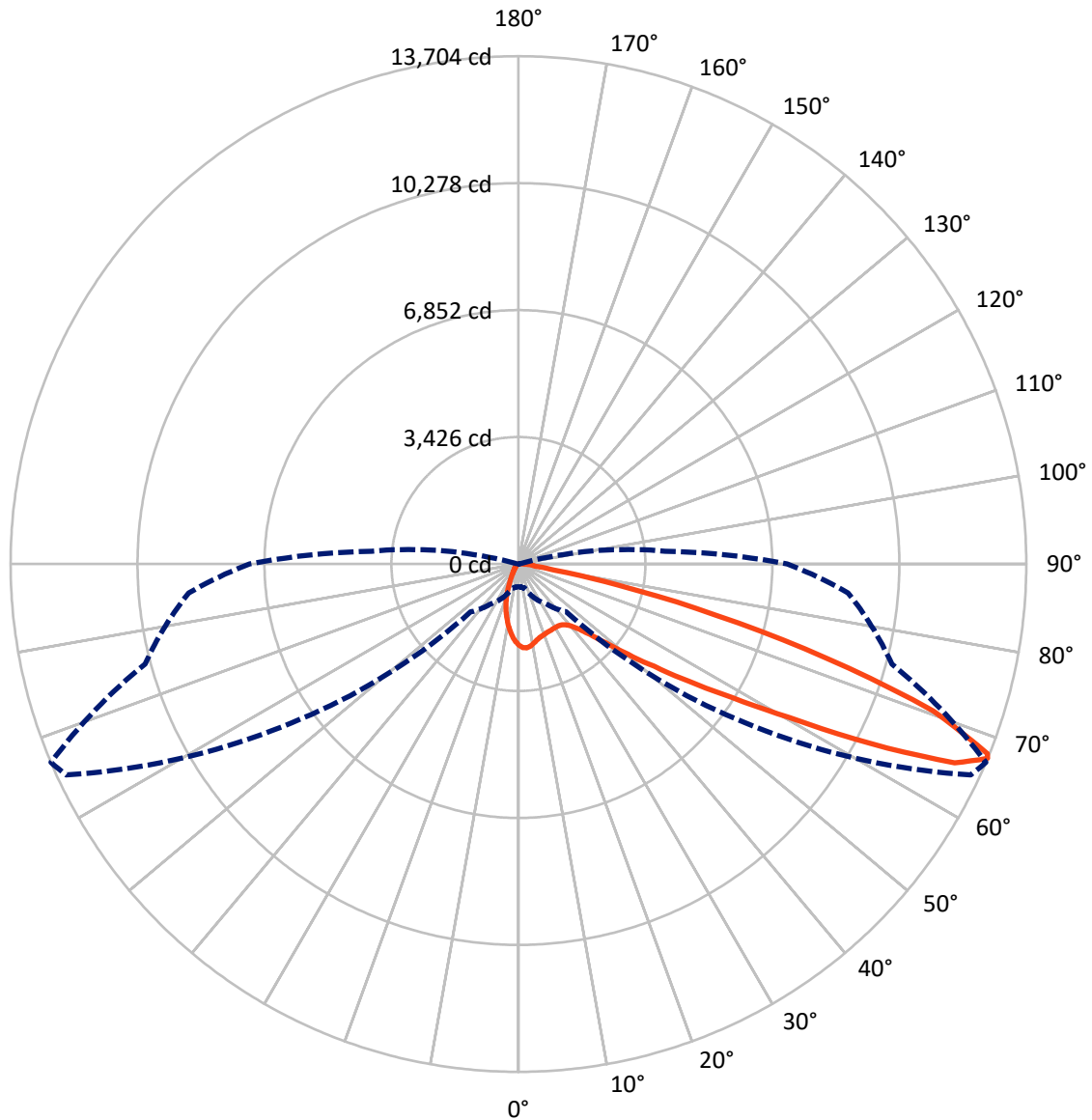
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1033.2	0.0	1033.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	8918.1	0.0	8918.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	9951.3	0.0	9951.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	1.8
10°-20°	380.1	3.8
20°-30°	552.6	5.6
30°-40°	862.1	8.7
40°-50°	1527.1	15.3
50°-60°	2416.5	24.3
60°-70°	2767.8	27.8
70°-80°	1148.0	11.5
80°-90°	118.6	1.2
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°	9951.3	100.0
0°-180°	9951.3	100.0

Coefficient of Utilization



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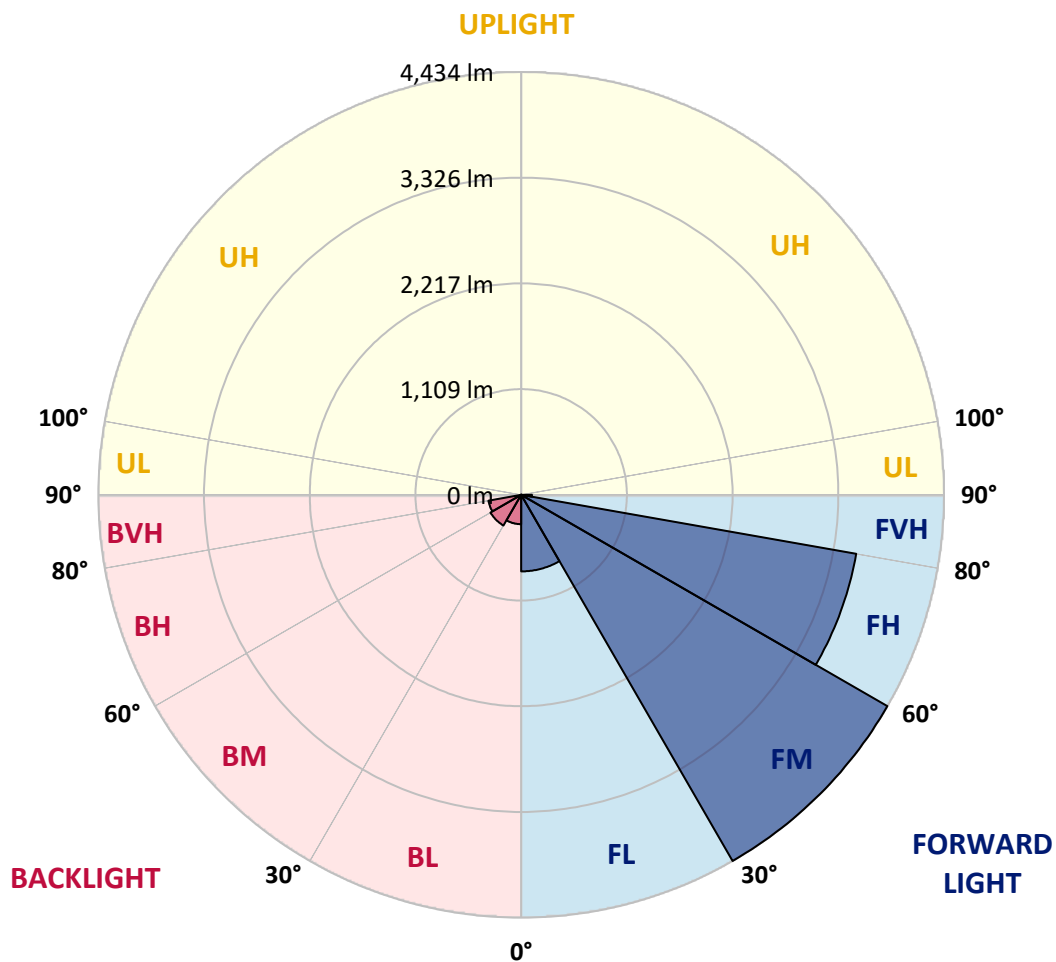
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	802.9	8.1			
FM (30°-60°)	4434.3	44.6			
FH (60°-80°)	3567.6	35.9			G2/5000
FVH (80°-90°)	113.2	1.1			G2/225
BL (0°-30°)	308.3	3.1	B1/500		
BM (30°-60°)	371.3	3.7	B1/1000		
BH (60°-80°)	348.2	3.5	B1/500		G1/500
BVH (80°-90°)	5.3	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7
2.5°	2269.0	2273.5	2273.0	2276.5	2284.6	2285.1	2277.1	2261.3	2258.0	2237.6	2202.2
5°	2092.6	2105.9	2113.9	2147.1	2184.2	2228.9	2262.5	2274.8	2273.0	2258.5	2205.1
7.5°	1891.1	1904.4	1913.6	1952.6	2001.9	2078.5	2166.2	2238.1	2244.5	2260.2	2202.7
10°	1757.0	1759.3	1772.0	1809.3	1860.9	1939.3	2043.7	2169.7	2188.8	2246.3	2196.9
12.5°	1646.7	1648.4	1665.3	1705.3	1760.5	1839.4	1949.0	2094.8	2124.4	2228.9	2195.8
15°	1568.3	1574.8	1589.8	1631.6	1690.2	1768.6	1881.2	2039.7	2075.1	2222.6	2206.3
17.5°	1542.2	1549.2	1553.8	1584.0	1637.5	1714.1	1829.5	2003.7	2043.7	2225.9	2226.6
20°	1569.5	1574.8	1564.3	1571.8	1604.9	1673.5	1786.1	1972.9	2020.5	2230.1	2252.7
22.5°	1671.1	1673.5	1645.0	1611.9	1606.1	1643.8	1751.8	1948.5	1999.7	2241.1	2283.4
25°	1845.2	1841.1	1794.7	1723.3	1656.1	1638.6	1731.4	1933.5	1989.2	2252.7	2315.4
27.5°	2055.3	2061.1	1997.3	1893.4	1765.1	1673.5	1728.6	1927.0	1984.4	2260.8	2343.2
30°	2310.8	2318.8	2245.8	2115.2	1931.1	1759.3	1755.2	1925.9	1981.6	2255.5	2345.6
32.5°	2571.3	2581.2	2523.8	2389.1	2152.9	1903.3	1815.6	1938.7	1987.4	2237.6	2332.2
35°	2844.1	2858.1	2819.8	2704.2	2453.5	2111.1	1921.9	1977.6	2014.7	2235.9	2318.8
37.5°	3220.9	3233.6	3161.6	3039.1	2817.5	2389.6	2092.6	2050.7	2079.1	2263.8	2322.3
40°	3783.3	3781.6	3595.8	3408.4	3217.3	2743.7	2332.2	2183.0	2197.5	2347.9	2365.3
42.5°	4396.3	4393.4	4118.7	3833.8	3661.4	3179.7	2647.4	2411.7	2401.8	2502.8	2476.7
45°	4868.7	4868.1	4644.1	4323.1	4196.0	3680.0	3054.9	2729.9	2714.6	2754.8	2682.2
47.5°	5070.1	5073.6	4961.0	4735.2	4788.7	4356.8	3568.5	3190.7	3168.1	3151.8	3041.4
50°	4913.4	4920.4	4929.7	4885.5	5223.3	5266.3	4257.5	3840.1	3829.1	3756.6	3584.2
52.5°	4401.5	4436.9	4545.9	4685.9	5374.3	6139.3	5337.8	4647.1	4587.8	4510.6	4320.7
55°	3538.9	3577.8	3785.1	4124.6	5149.6	6712.8	6851.5	5687.2	5588.5	5358.1	5084.1
57.5°	2342.1	2402.4	2703.1	3134.9	4497.2	6805.1	8361.8	7130.7	6787.0	6156.1	5847.3
60°	1290.4	1348.4	1674.6	2065.8	3248.2	6348.8	9377.5	9010.2	8403.0	7048.2	6774.3
62.5°	794.7	826.0	1066.8	1430.8	1948.0	5010.9	9587.7	11371.9	10669.0	8196.9	7894.0
65°	632.7	646.0	763.8	1169.6	1396.6	2980.6	8909.1	13172.6	12937.9	9587.7	8896.3
67°	614.1	619.3	675.0	1004.2	1316.5	1827.3	7463.8	13465.5	13703.6	10429.4	8927.7
67.5°	618.2	624.0	676.8	958.3	1314.1	1679.2	6965.9	13350.1	13650.8	10496.1	8789.1
70°	596.1	614.1	774.8	957.7	1249.7	1395.4	4171.6	11566.9	11879.9	9752.5	7457.5
72.5°	211.3	212.4	334.9	774.8	1358.8	1410.4	2094.8	8479.6	8711.2	7460.3	5376.6
75°	125.3	106.7	111.5	220.6	1298.4	1369.8	1208.5	5418.3	5504.9	4274.9	2722.8
77.5°	86.6	75.5	77.8	97.5	494.5	1350.7	960.1	2825.6	2733.2	1499.2	579.8
80°	49.3	43.4	46.4	85.3	180.0	1260.1	905.4	1145.8	976.9	254.2	160.2
82.5°	26.1	22.1	26.7	70.3	125.3	785.3	907.2	553.7	438.7	85.9	109.2
85°	9.3	7.5	12.8	48.2	83.6	240.9	841.1	465.6	365.7	41.7	83.0
87.5°	1.7	1.7	5.3	19.7	33.7	73.8	497.4	276.3	185.2	24.9	57.0
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°	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7	2194.7
2.5°	2187.7	2162.7	2129.0	2087.8	2039.1	1996.1	1964.2	1931.1	1924.2	1912.6	1910.8
5°	2173.1	2130.2	2046.7	1950.9	1848.6	1756.5	1681.5	1614.8	1585.2	1559.6	1556.7
7.5°	2151.7	2087.3	1945.1	1790.6	1631.0	1485.9	1362.9	1275.8	1195.8	1157.4	1151.6
10°	2126.7	2034.4	1830.7	1616.5	1396.0	1191.0	1008.3	855.0	762.1	707.0	700.1
12.5°	2103.5	1982.7	1714.1	1436.0	1142.9	868.9	633.8	487.6	390.0	350.6	346.0
15°	2092.6	1941.0	1604.9	1251.4	878.2	553.2	346.6	268.1	236.2	226.9	226.3
17.5°	2091.3	1905.6	1498.2	1060.5	615.2	321.6	225.8	206.1	199.6	197.3	197.3
20°	2090.7	1871.9	1391.3	862.5	390.6	214.1	188.0	183.4	178.7	175.9	175.9
22.5°	2097.1	1841.8	1279.9	660.6	246.1	173.5	165.4	160.8	154.9	150.9	150.3
25°	2103.5	1818.5	1166.2	470.2	178.2	150.9	142.8	136.3	128.3	123.0	122.5
27.5°	2104.7	1789.4	1044.2	314.5	149.1	131.7	121.3	111.5	102.1	96.9	96.3
30°	2087.3	1740.7	908.9	212.4	131.7	114.4	100.4	89.9	81.3	77.2	77.2
32.5°	2053.0	1680.4	760.3	160.2	117.2	98.2	83.0	73.1	67.3	65.5	65.0
35°	2022.3	1615.4	607.7	135.8	105.1	83.0	68.0	61.5	58.0	57.5	57.0
37.5°	2004.3	1563.2	464.4	123.0	93.4	69.6	57.5	52.8	51.1	49.9	50.5
40°	2018.2	1519.6	343.1	112.6	81.8	58.0	48.7	46.4	44.7	44.1	44.1
42.5°	2079.1	1512.0	254.8	103.4	70.8	48.2	42.4	40.7	39.5	38.9	39.5
45°	2239.4	1558.5	198.0	94.6	59.8	40.7	35.9	35.4	34.9	34.9	34.9
47.5°	2480.1	1654.3	164.9	84.7	49.9	34.9	31.3	30.8	30.1	30.8	30.8
50°	2888.3	1829.5	147.4	74.9	41.2	29.6	26.7	26.7	26.7	26.7	27.4
52.5°	3508.8	2174.4	135.8	65.0	33.7	24.9	22.6	22.6	23.2	23.2	23.8
55°	4200.0	2631.7	125.3	55.1	28.4	20.9	18.6	19.1	19.7	20.3	20.3
57.5°	4950.0	3138.5	116.7	45.3	24.4	16.8	15.7	16.3	16.8	18.0	18.0
60°	5854.8	3687.0	103.9	35.4	20.3	13.3	12.2	13.3	15.1	16.3	16.8
62.5°	6848.6	4217.5	87.6	27.9	16.8	10.5	9.9	12.2	14.5	15.7	16.3
65°	7527.8	4384.0	67.3	22.6	12.8	7.5	8.0	11.0	13.8	15.7	15.7
67°	7252.5	3974.9	55.1	19.1	10.5	5.8	7.5	11.0	13.8	15.1	15.7
67.5°	7061.7	3814.7	52.8	18.6	9.9	5.8	7.5	11.0	13.8	15.7	15.7
70°	5745.7	2865.7	44.1	13.8	8.0	5.3	6.3	10.5	13.3	15.1	15.1
72.5°	3992.3	1766.8	39.5	9.9	7.0	4.6	5.8	9.9	12.8	14.5	15.1
75°	1898.1	639.6	33.7	7.5	6.3	4.1	5.3	9.9	12.8	14.5	14.5
77.5°	387.1	148.6	27.4	6.3	5.3	4.1	4.6	9.3	12.2	13.8	13.8
80°	127.1	57.5	20.3	5.8	5.3	4.1	4.6	8.7	12.2	13.3	13.8
82.5°	91.7	29.1	13.3	5.8	5.3	4.1	4.1	8.7	11.6	13.3	13.3
85°	70.3	20.3	8.7	5.8	5.3	4.1	4.1	8.0	11.0	12.8	12.8
87.5°	46.4	8.0	7.0	5.8	5.3	4.1	4.1	8.0	10.5	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)