

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: P199966

Luminaire Tested: **GPC-AF-02-LED-E1-SL3-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199966
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: GPC-AF-02-LED-E1-SL3-7030-800-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 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: 8293.9 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 86
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

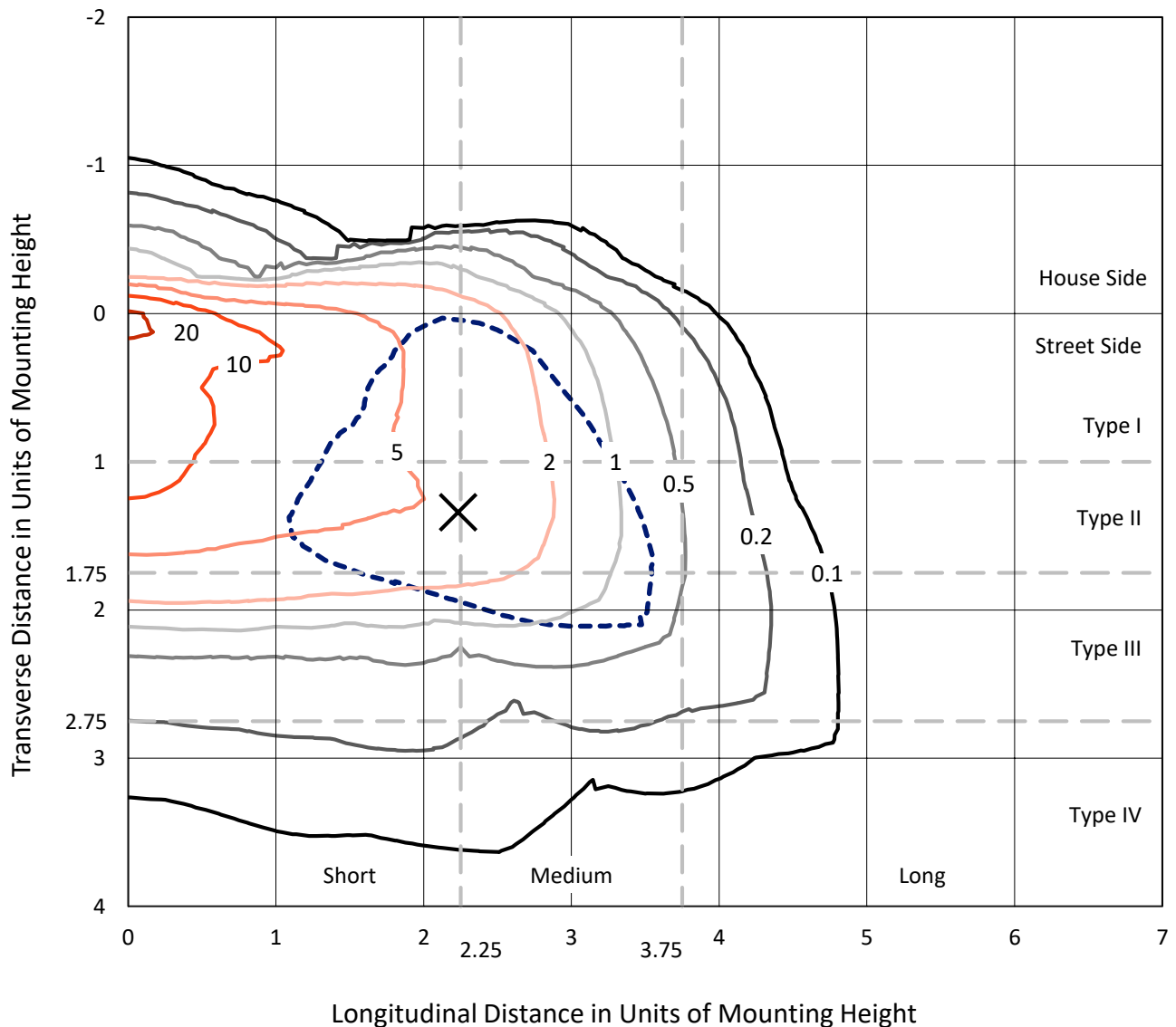


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

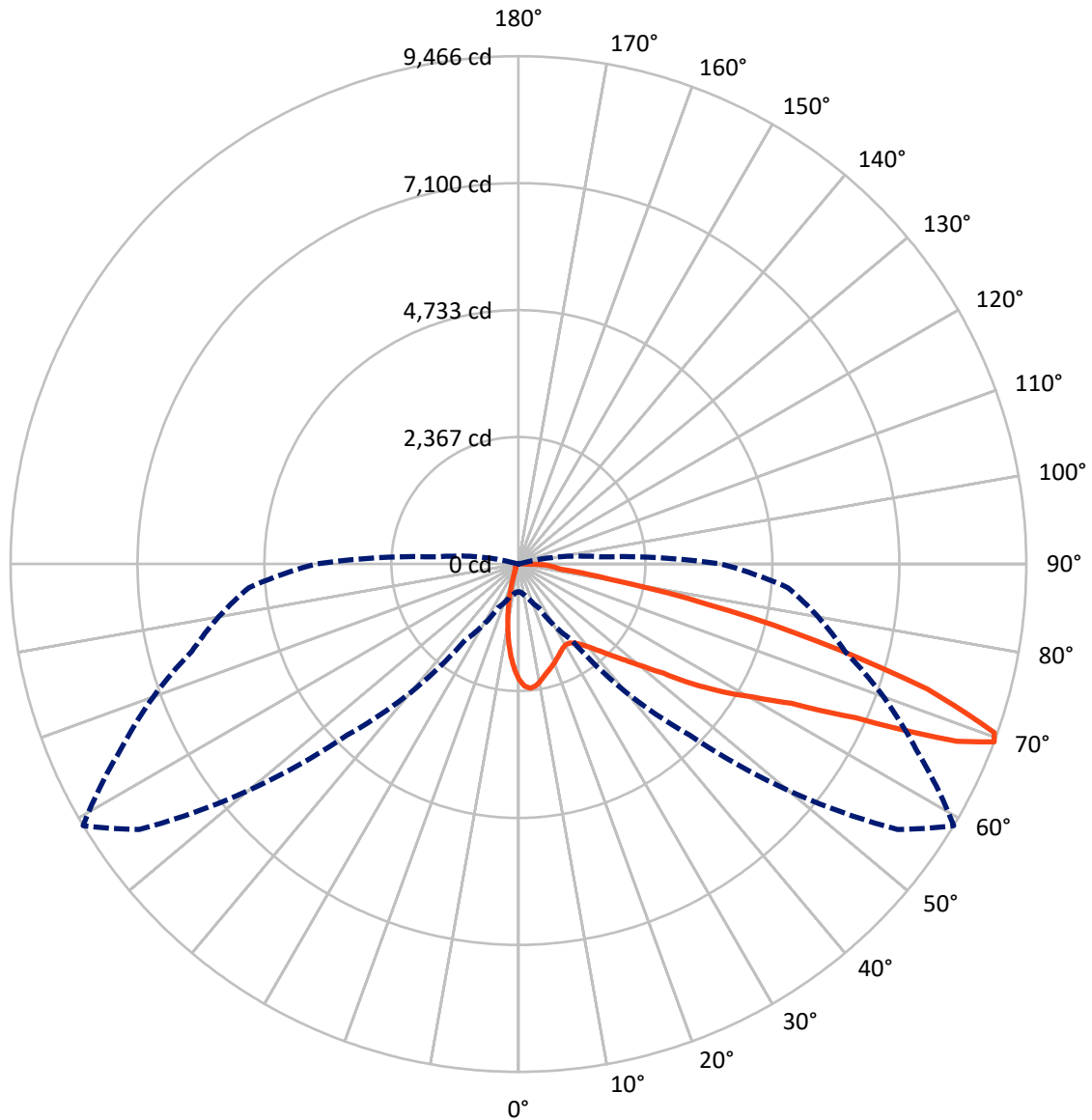


Based on 10 foot mounting height. Maximum calculated value = 21.7 fc
 Type III - Short - Non-Cutoff

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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	675.4	0.0	675.4
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	7618.4	0.0	7618.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	8293.9	0.0	8293.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.2	2.1
10°-20°	362.1	4.4
20°-30°	487.2	5.9
30°-40°	707.4	8.5
40°-50°	1177.9	14.2
50°-60°	1837.5	22.2
60°-70°	2273.7	27.4
70°-80°	1152.3	13.9
80°-90°	120.6	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°	8293.9	100.0
0°-180°	8293.9	100.0



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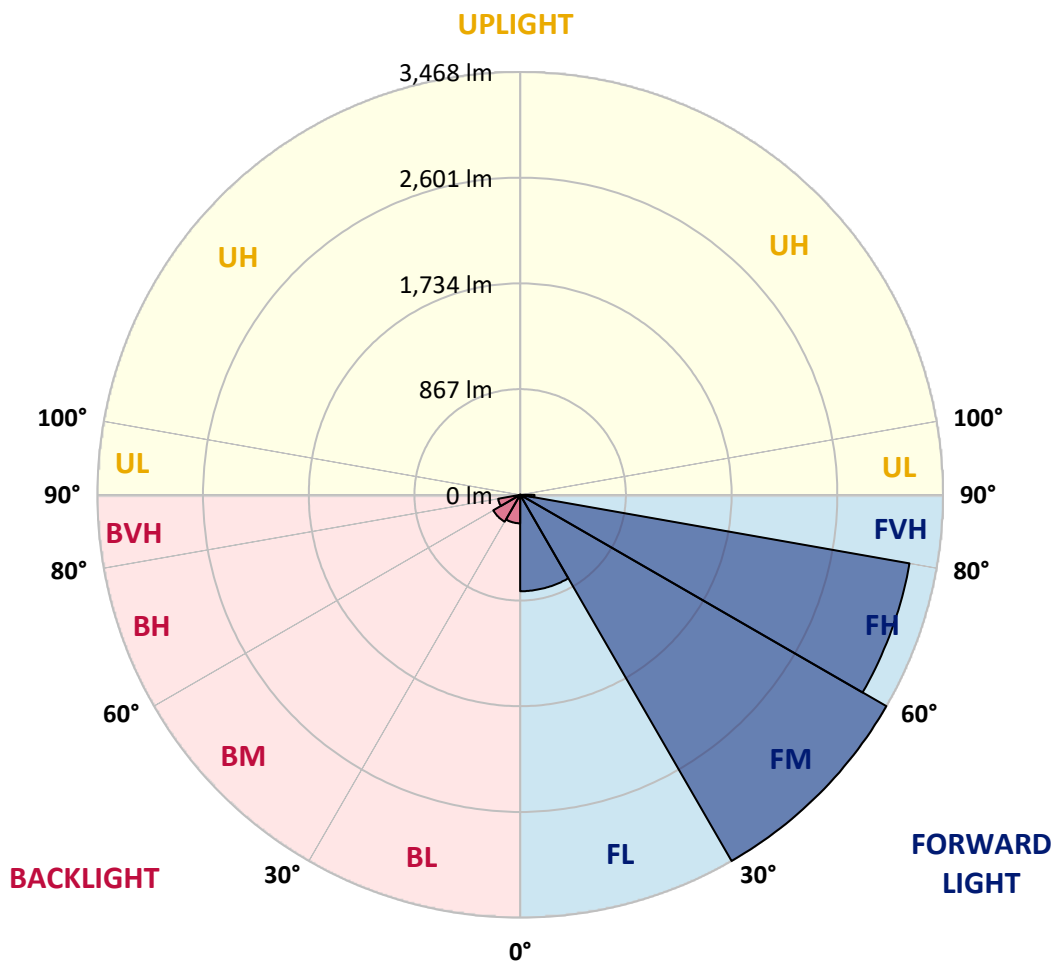
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	790.7	9.5			
FM	(30°-60°)	3468.3	41.8			
FH	(60°-80°)	3242.6	39.1			G2/5000
FVH	(80°-90°)	116.9	1.4			G2/225
BL	(0°-30°)	233.8	2.8	B1/500		
BM	(30°-60°)	254.5	3.1	B1/1000		
BH	(60°-80°)	183.4	2.2	B1/500		G1/500
BVH	(80°-90°)	3.7	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°	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8
2.5°	2366.1	2365.1	2354.9	2350.1	2341.7	2323.8	2296.2	2281.7	2258.2	2217.4	2162.6
5°	2344.4	2355.7	2361.8	2362.3	2368.4	2361.8	2336.9	2324.8	2292.5	2226.8	2128.3
7.5°	2198.2	2202.4	2219.7	2234.8	2263.9	2291.5	2300.5	2295.2	2276.0	2205.7	2074.9
10°	2041.5	2045.8	2066.4	2086.1	2125.5	2168.1	2213.1	2222.6	2230.5	2175.7	2023.3
12.5°	1906.5	1910.7	1931.8	1957.6	2003.6	2056.0	2125.9	2141.5	2176.6	2147.1	1982.0
15°	1790.1	1792.1	1812.6	1844.6	1899.5	1967.0	2046.2	2071.1	2125.0	2126.8	1945.9
17.5°	1691.3	1695.9	1708.6	1739.1	1799.1	1882.5	1975.0	2010.6	2073.8	2110.1	1910.7
20°	1630.7	1635.4	1634.9	1651.8	1705.7	1794.8	1903.7	1946.4	2023.3	2092.7	1879.3
22.5°	1619.0	1619.0	1606.7	1604.5	1636.2	1710.9	1829.5	1881.6	1977.7	2085.1	1857.2
25°	1660.7	1658.9	1628.4	1603.5	1604.9	1649.5	1757.8	1819.7	1939.3	2090.3	1845.5
27.5°	1748.9	1746.5	1708.0	1660.7	1622.7	1622.3	1703.4	1770.0	1908.8	2114.7	1850.2
30°	1870.8	1869.9	1828.1	1768.6	1699.6	1636.2	1684.7	1745.1	1889.1	2158.8	1861.0
32.5°	2004.1	2002.6	1971.1	1908.3	1821.2	1699.6	1704.3	1754.9	1894.8	2217.4	1887.2
35°	2145.2	2142.8	2129.3	2074.4	1978.2	1816.4	1769.0	1808.5	1930.4	2305.2	1938.8
37.5°	2298.0	2300.5	2310.3	2257.8	2156.9	1980.1	1877.4	1904.2	2002.1	2424.3	2022.8
40°	2523.7	2523.3	2526.5	2457.6	2360.4	2180.4	2028.8	2037.3	2122.3	2582.3	2150.3
42.5°	2933.1	2904.4	2817.7	2677.1	2579.5	2409.2	2219.7	2210.9	2269.0	2777.8	2329.0
45°	3483.1	3422.2	3197.2	2927.5	2802.7	2667.1	2454.7	2426.1	2463.1	3012.9	2549.4
47.5°	3956.4	3893.1	3574.6	3188.1	3039.6	2912.0	2730.1	2678.4	2690.6	3275.9	2828.9
50°	4117.3	4086.3	3808.2	3415.2	3268.9	3220.1	3049.4	2986.6	2969.2	3580.3	3153.0
52.5°	4061.5	4059.1	3873.9	3562.5	3479.1	3539.0	3451.3	3378.7	3314.8	3901.1	3482.7
55°	3971.9	3983.6	3900.7	3691.5	3688.6	3830.3	4001.0	3940.4	3755.7	4249.5	3766.9
57.5°	3724.7	3774.9	3885.6	3935.3	4050.7	4195.7	4458.8	4494.4	4275.9	4516.4	4002.8
60°	3022.2	3132.5	3494.4	3970.5	4517.4	4878.4	5011.1	5041.7	4702.6	4738.2	4321.3
62.5°	2145.2	2257.8	2716.8	3522.2	4524.4	5775.7	5834.3	5714.7	5172.6	5067.0	4870.4
65°	1138.7	1225.5	1600.6	2542.5	3922.6	5983.9	7273.6	6917.2	6001.7	5713.7	5580.1
67.5°	582.5	608.8	757.9	1244.3	2696.7	5315.1	8563.8	8814.7	7430.7	6355.4	5545.9
69°	515.3	530.9	629.9	899.5	1726.9	4501.9	8626.7	9466.2	8178.8	6301.8	5039.8
70°	499.0	512.7	602.7	814.2	1349.8	3775.5	8386.0	9409.0	8370.2	6098.3	4661.8
72.5°	423.5	435.2	536.6	719.5	1097.0	1874.2	6812.1	7972.8	7510.9	5080.1	3374.4
75°	283.3	321.8	514.9	674.4	1020.5	1064.6	4491.1	5761.6	5352.2	3426.5	1757.8
77.5°	68.0	73.2	145.5	536.6	933.3	937.0	2309.8	3581.7	2921.4	1221.3	415.5
80°	36.6	35.2	40.8	106.4	869.0	879.3	1039.7	1738.6	1043.0	202.5	136.9
82.5°	25.7	24.4	26.2	44.6	273.4	801.1	752.2	787.0	432.4	77.9	61.4
85°	9.4	9.0	14.5	40.3	85.9	460.5	772.9	649.1	350.2	35.6	45.1
87.5°	3.3	2.8	5.7	22.1	26.2	196.0	476.9	490.6	137.8	21.6	21.1
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°	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8
2.5°	2139.6	2110.5	2057.1	2002.1	1951.5	1890.5	1860.0	1830.0	1817.3	1812.6	1790.6
5°	2077.7	2028.4	1914.9	1800.9	1695.9	1584.3	1510.6	1451.5	1416.9	1399.9	1373.2
7.5°	1998.4	1917.7	1745.6	1569.7	1406.0	1244.7	1125.2	1033.1	969.9	939.4	911.8
10°	1921.5	1814.0	1569.3	1329.5	1107.4	893.4	728.3	608.8	532.3	497.1	474.6
12.5°	1852.5	1713.1	1398.9	1095.6	816.5	566.1	398.1	302.9	255.5	239.2	231.2
15°	1791.1	1620.5	1238.1	873.3	553.0	323.6	217.7	185.3	177.8	177.8	176.8
17.5°	1733.0	1529.4	1082.9	664.6	347.0	197.9	165.5	161.3	161.3	163.3	163.3
20°	1677.1	1442.7	932.8	476.9	218.5	157.2	149.5	148.7	149.5	152.0	152.0
22.5°	1629.3	1363.9	792.5	327.3	162.2	141.6	137.8	136.5	136.9	138.3	139.3
25°	1593.6	1297.2	660.4	221.8	139.8	128.9	124.8	122.4	120.5	120.5	121.5
27.5°	1571.1	1240.9	532.3	161.3	125.6	117.2	110.7	107.0	102.7	100.4	101.3
30°	1554.8	1187.5	412.2	131.7	112.5	104.2	95.7	89.6	83.5	80.7	81.6
32.5°	1548.6	1144.4	308.1	116.4	100.8	91.4	81.2	73.2	66.6	64.3	64.7
35°	1565.0	1110.1	225.6	105.1	91.4	79.8	68.0	59.1	54.0	52.6	53.0
37.5°	1608.2	1091.8	168.8	95.7	83.0	69.9	56.7	48.3	45.1	45.1	45.5
40°	1689.8	1091.4	135.6	89.1	75.5	60.5	46.9	40.8	38.9	39.9	40.3
42.5°	1808.9	1116.2	118.2	83.0	69.0	51.6	38.9	34.8	34.2	35.2	35.6
45°	1971.7	1161.7	108.8	77.9	62.0	43.1	32.8	30.0	30.0	31.4	31.9
47.5°	2171.0	1228.3	100.8	72.6	54.8	36.2	28.2	26.2	26.8	28.2	28.6
50°	2411.2	1312.2	92.9	67.0	49.7	30.0	24.4	23.0	23.5	25.3	25.7
52.5°	2684.5	1425.3	86.4	62.0	43.1	24.9	20.6	19.6	20.6	22.5	23.0
55°	2919.0	1526.6	78.3	57.7	34.8	20.6	16.9	16.9	17.8	20.2	20.6
57.5°	3144.6	1632.6	71.2	49.7	27.2	16.4	14.1	14.5	16.0	18.2	18.8
60°	3475.7	1812.2	62.9	41.7	20.6	13.1	11.7	12.2	14.1	16.4	16.9
62.5°	4038.0	2085.6	54.4	34.8	16.0	10.3	9.4	10.3	12.7	15.6	16.0
65°	4545.5	2196.7	44.6	29.1	12.2	7.9	7.9	9.4	12.2	15.0	15.6
67.5°	4262.6	1849.2	34.8	23.0	9.4	6.1	6.5	9.0	11.7	15.0	15.6
69°	3769.8	1512.0	29.5	18.2	7.9	5.7	6.1	9.0	11.7	14.5	15.0
70°	3385.6	1276.5	26.2	15.6	7.0	5.7	6.1	8.4	11.7	14.5	15.0
72.5°	2267.5	689.4	21.1	11.3	6.5	5.1	5.1	8.4	11.3	14.1	14.5
75°	974.6	190.4	16.9	7.9	5.7	4.7	4.7	7.9	10.8	13.5	14.5
77.5°	178.2	48.3	13.5	7.0	5.7	4.7	4.3	7.5	10.3	13.1	13.5
80°	70.8	23.9	10.8	6.1	5.1	4.3	3.8	7.0	9.9	12.7	13.1
82.5°	42.7	13.5	9.0	5.7	5.1	3.8	3.3	6.1	9.4	12.2	12.7
85°	34.8	9.4	7.0	5.7	4.7	3.8	2.8	5.7	8.4	11.7	12.2
87.5°	16.9	6.5	6.5	5.1	4.7	3.8	2.8	5.1	7.9	11.3	11.7
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)