

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: P199950

Luminaire Tested: **GPC-AF-02-LED-E1-SL2-7030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199950  
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-SL2-7030-800-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 3000K, 800mA 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: 8040.4 lumens  
Efficiency: N/A  
Efficacy: 93.5 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): 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

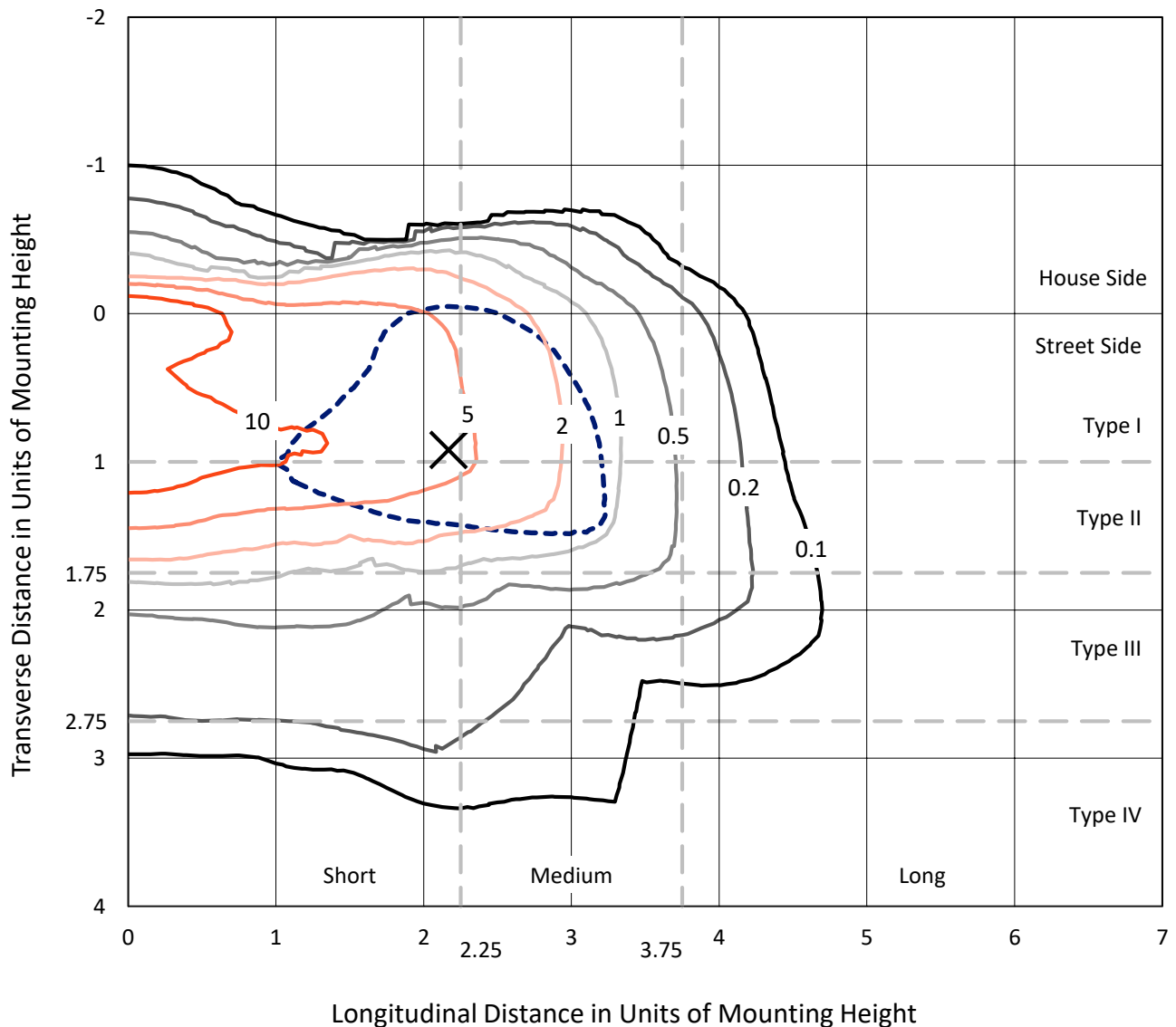


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### Iso-Footcandle Lines of Horizontal Illumination

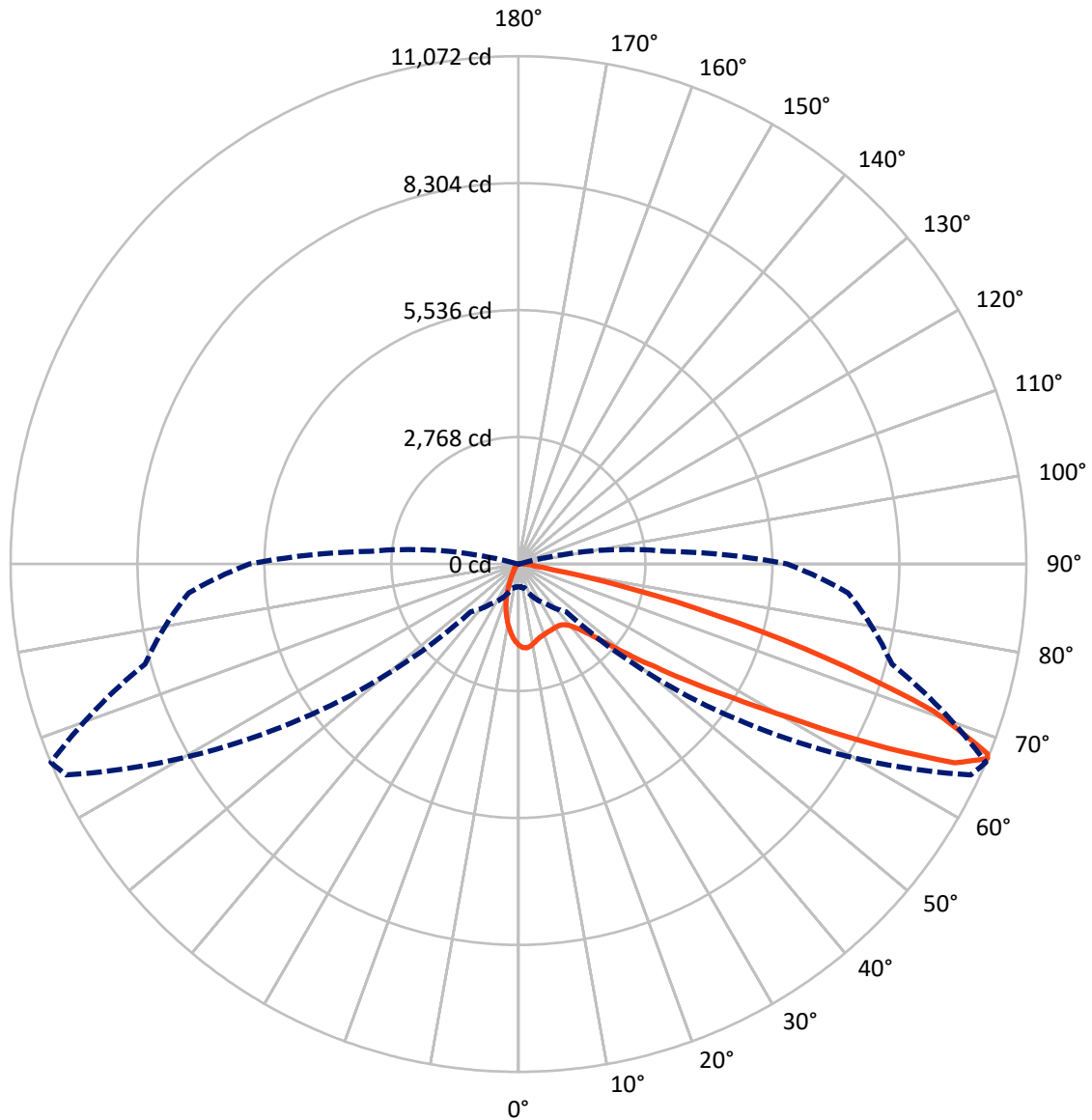
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.7 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
<b>House Side</b>	Lumens	834.8	0.0	834.8
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	7205.6	0.0	7205.6
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	8040.4	0.0	8040.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.3	1.8
10°-20°	307.1	3.8
20°-30°	446.5	5.6
30°-40°	696.5	8.7
40°-50°	1233.9	15.3
50°-60°	1952.5	24.3
60°-70°	2236.3	27.8
70°-80°	927.6	11.5
80°-90°	95.8	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°	8040.4	100.0
0°-180°	8040.4	100.0



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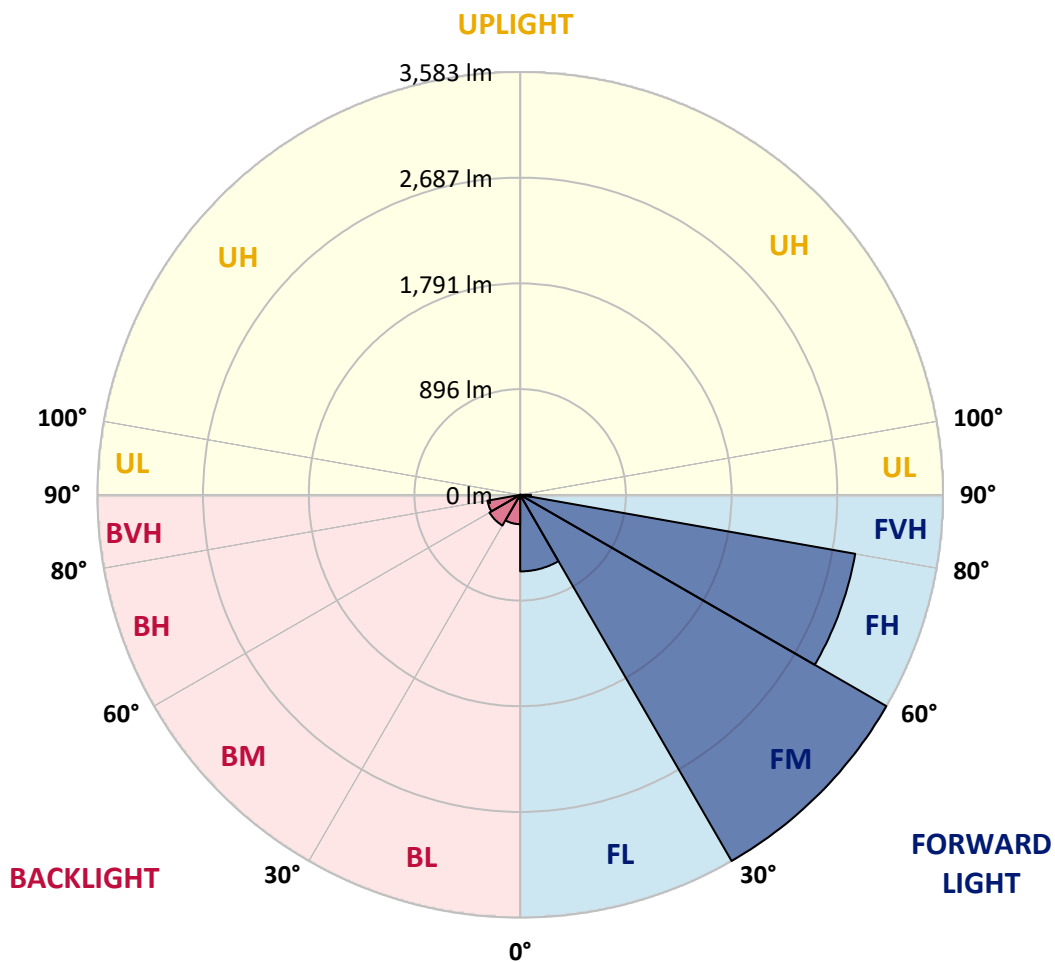
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	648.7	8.1			
FM (30°-60°)	3582.8	44.6			
FH (60°-80°)	2882.5	35.9			G2/5000
FVH (80°-90°)	91.5	1.1			G1/100
BL (0°-30°)	249.1	3.1	B1/500		
BM (30°-60°)	300.0	3.7	B1/1000		
BH (60°-80°)	281.4	3.5	B1/500		G1/500
BVH (80°-90°)	4.3	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°	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2
2.5°	1833.3	1836.9	1836.5	1839.4	1845.9	1846.4	1839.8	1827.2	1824.3	1807.9	1779.3
5°	1690.7	1701.5	1708.0	1734.7	1764.7	1800.9	1828.1	1838.0	1836.5	1824.7	1781.7
7.5°	1527.9	1538.7	1546.2	1577.6	1617.5	1679.5	1750.3	1808.4	1813.4	1826.2	1779.8
10°	1419.6	1421.5	1431.8	1461.8	1503.5	1566.9	1651.2	1753.1	1768.5	1814.9	1775.0
12.5°	1330.4	1331.9	1345.5	1377.9	1422.4	1486.2	1574.9	1692.5	1716.5	1800.9	1774.2
15°	1267.2	1272.4	1284.6	1318.3	1365.6	1429.0	1519.9	1647.9	1676.6	1795.6	1782.6
17.5°	1246.1	1251.7	1255.5	1279.9	1323.0	1384.9	1478.2	1618.9	1651.2	1798.5	1799.0
20°	1268.1	1272.4	1263.9	1270.0	1296.7	1352.1	1443.1	1594.1	1632.6	1801.8	1820.2
22.5°	1350.2	1352.1	1329.0	1302.4	1297.7	1328.1	1415.4	1574.3	1615.6	1810.8	1845.0
25°	1490.9	1487.6	1450.1	1392.4	1338.0	1323.9	1398.9	1562.2	1607.2	1820.2	1870.7
27.5°	1660.6	1665.3	1613.8	1529.8	1426.2	1352.1	1396.7	1557.1	1603.4	1826.7	1893.3
30°	1867.0	1873.6	1814.5	1709.0	1560.3	1421.5	1418.1	1556.1	1601.0	1822.5	1895.1
32.5°	2077.6	2085.5	2039.1	1930.3	1739.4	1537.9	1467.0	1566.3	1605.8	1807.9	1884.4
35°	2297.9	2309.2	2278.3	2184.9	1982.4	1705.6	1552.8	1597.8	1627.9	1806.5	1873.6
37.5°	2602.3	2612.7	2554.5	2455.6	2276.4	1930.8	1690.7	1656.9	1679.9	1829.0	1876.4
40°	3056.7	3055.4	2905.3	2753.9	2599.5	2216.9	1884.4	1763.8	1775.6	1897.0	1911.1
42.5°	3552.0	3549.8	3327.8	3097.6	2958.3	2569.0	2139.0	1948.6	1940.7	2022.3	2001.1
45°	3933.8	3933.4	3752.3	3492.9	3390.2	2973.3	2468.2	2205.6	2193.4	2225.7	2167.1
47.5°	4096.5	4099.3	4008.4	3825.9	3869.1	3520.2	2883.3	2578.0	2559.7	2546.5	2457.5
50°	3969.9	3975.5	3983.0	3947.4	4220.3	4255.0	3439.9	3102.8	3093.9	3035.2	2895.9
52.5°	3556.3	3584.9	3673.1	3786.1	4342.3	4960.4	4312.7	3754.5	3706.8	3644.5	3491.1
55°	2859.4	2890.8	3058.1	3332.5	4160.8	5423.7	5535.8	4595.0	4515.3	4329.2	4107.8
57.5°	1892.4	1941.1	2184.0	2532.9	3633.6	5498.3	6756.0	5761.3	5483.7	4973.9	4724.5
60°	1042.6	1089.5	1352.9	1669.1	2624.4	5129.7	7576.8	7280.0	6789.4	5694.8	5473.5
62.5°	642.0	667.3	861.9	1156.1	1573.9	4048.7	7746.6	9188.1	8620.2	6622.9	6378.1
65°	511.3	521.9	617.2	945.0	1128.3	2408.2	7198.3	10643.0	10453.5	7746.6	7188.0
67°	496.1	500.4	545.4	811.4	1063.6	1476.3	6030.6	10879.8	11072.2	8426.6	7213.3
67.5°	499.5	504.1	546.9	774.3	1061.8	1356.8	5628.2	10786.5	11029.4	8480.4	7101.3
70°	481.7	496.1	626.0	773.8	1009.7	1127.4	3370.5	9345.8	9598.5	7879.8	6025.4
72.5°	170.7	171.6	270.6	626.0	1097.8	1139.6	1692.5	6851.3	7038.4	6027.8	4344.1
75°	101.3	86.4	90.0	178.2	1049.1	1106.8	976.4	4377.9	4447.7	3454.0	2199.9
77.5°	69.9	60.9	62.9	78.7	399.6	1091.3	775.7	2283.0	2208.4	1211.3	468.5
80°	39.9	35.2	37.4	69.0	145.5	1018.2	731.6	925.8	789.3	205.4	129.5
82.5°	21.1	17.8	21.6	56.7	101.3	634.6	733.0	447.4	354.5	69.4	88.2
85°	7.5	6.1	10.3	38.9	67.5	194.6	679.6	376.1	295.4	33.8	67.0
87.5°	1.4	1.4	4.3	16.0	27.2	59.5	402.0	223.2	149.5	20.2	46.0
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°	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2
2.5°	1767.6	1747.4	1720.2	1687.0	1647.5	1612.7	1587.0	1560.3	1554.6	1545.3	1543.9
5°	1755.8	1721.2	1653.6	1576.3	1493.7	1419.2	1358.6	1304.7	1280.7	1260.1	1257.8
7.5°	1738.6	1686.4	1571.5	1446.8	1317.7	1200.5	1101.2	1030.9	966.1	935.1	930.5
10°	1718.3	1643.8	1479.2	1306.0	1127.9	962.3	814.6	690.8	615.7	571.2	565.6
12.5°	1699.5	1602.1	1384.9	1160.3	923.5	702.1	512.1	394.0	315.1	283.3	279.4
15°	1690.7	1568.3	1296.7	1011.0	709.5	447.0	280.0	216.7	190.8	183.3	182.9
17.5°	1689.7	1539.7	1210.5	856.8	497.1	259.8	182.5	166.5	161.3	159.4	159.4
20°	1689.2	1512.4	1124.2	696.8	315.6	173.0	152.0	148.1	144.4	142.1	142.1
22.5°	1694.4	1488.1	1034.1	533.7	198.9	140.2	133.7	129.9	125.2	122.0	121.5
25°	1699.5	1469.3	942.2	379.9	144.0	122.0	115.4	110.3	103.7	99.4	99.0
27.5°	1700.5	1445.8	843.7	254.1	120.5	106.4	98.0	90.0	82.5	78.3	77.9
30°	1686.4	1406.5	734.4	171.6	106.4	92.5	81.2	72.6	65.7	62.4	62.4
32.5°	1658.8	1357.6	614.4	129.5	94.7	79.2	67.0	59.1	54.4	53.0	52.6
35°	1633.9	1305.2	491.0	109.7	84.9	67.0	54.8	49.7	46.9	46.4	46.0
37.5°	1619.3	1262.9	375.2	99.4	75.5	56.3	46.4	42.7	41.3	40.3	40.8
40°	1630.5	1227.7	277.2	91.0	66.1	46.9	39.5	37.4	36.2	35.6	35.6
42.5°	1679.9	1221.7	205.9	83.5	57.3	38.9	34.2	32.8	31.9	31.4	31.9
45°	1809.4	1259.2	159.9	76.5	48.3	32.8	29.1	28.6	28.2	28.2	28.2
47.5°	2004.0	1336.6	133.2	68.5	40.3	28.2	25.3	24.8	24.4	24.8	24.8
50°	2333.7	1478.2	119.1	60.5	33.4	23.9	21.6	21.6	21.6	21.6	22.1
52.5°	2835.0	1756.8	109.7	52.6	27.2	20.2	18.2	18.2	18.8	18.8	19.2
55°	3393.5	2126.3	101.3	44.6	23.0	16.9	15.0	15.6	16.0	16.4	16.4
57.5°	3999.4	2535.8	94.3	36.6	19.6	13.5	12.7	13.1	13.5	14.5	14.5
60°	4730.6	2979.0	83.9	28.6	16.4	10.8	9.9	10.8	12.2	13.1	13.5
62.5°	5533.4	3407.6	70.8	22.5	13.5	8.4	7.9	9.9	11.7	12.7	13.1
65°	6082.1	3542.1	54.4	18.2	10.3	6.1	6.5	9.0	11.3	12.7	12.7
67°	5859.9	3211.5	44.6	15.6	8.4	4.7	6.1	9.0	11.3	12.2	12.7
67.5°	5705.6	3082.1	42.7	15.0	7.9	4.7	6.1	9.0	11.3	12.7	12.7
70°	4642.4	2315.3	35.6	11.3	6.5	4.3	5.1	8.4	10.8	12.2	12.2
72.5°	3225.7	1427.6	31.9	7.9	5.7	3.8	4.7	7.9	10.3	11.7	12.2
75°	1533.6	516.8	27.2	6.1	5.1	3.3	4.3	7.9	10.3	11.7	11.7
77.5°	312.8	120.0	22.1	5.1	4.3	3.3	3.8	7.5	9.9	11.3	11.3
80°	102.7	46.4	16.4	4.7	4.3	3.3	3.8	7.0	9.9	10.8	11.3
82.5°	74.1	23.5	10.8	4.7	4.3	3.3	3.3	7.0	9.4	10.8	10.8
85°	56.7	16.4	7.0	4.7	4.3	3.3	3.3	6.5	9.0	10.3	10.3
87.5°	37.4	6.5	5.7	4.7	4.3	3.3	3.3	6.5	8.4	9.9	10.3
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)