

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: P270037

Luminaire Tested: **GPC-AF-02-LED-E1-SL3-7027-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270037  
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-SL3-7027-800-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 2700K, 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: 7450.4 lumens  
Efficiency: N/A  
Efficacy: 86.6 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

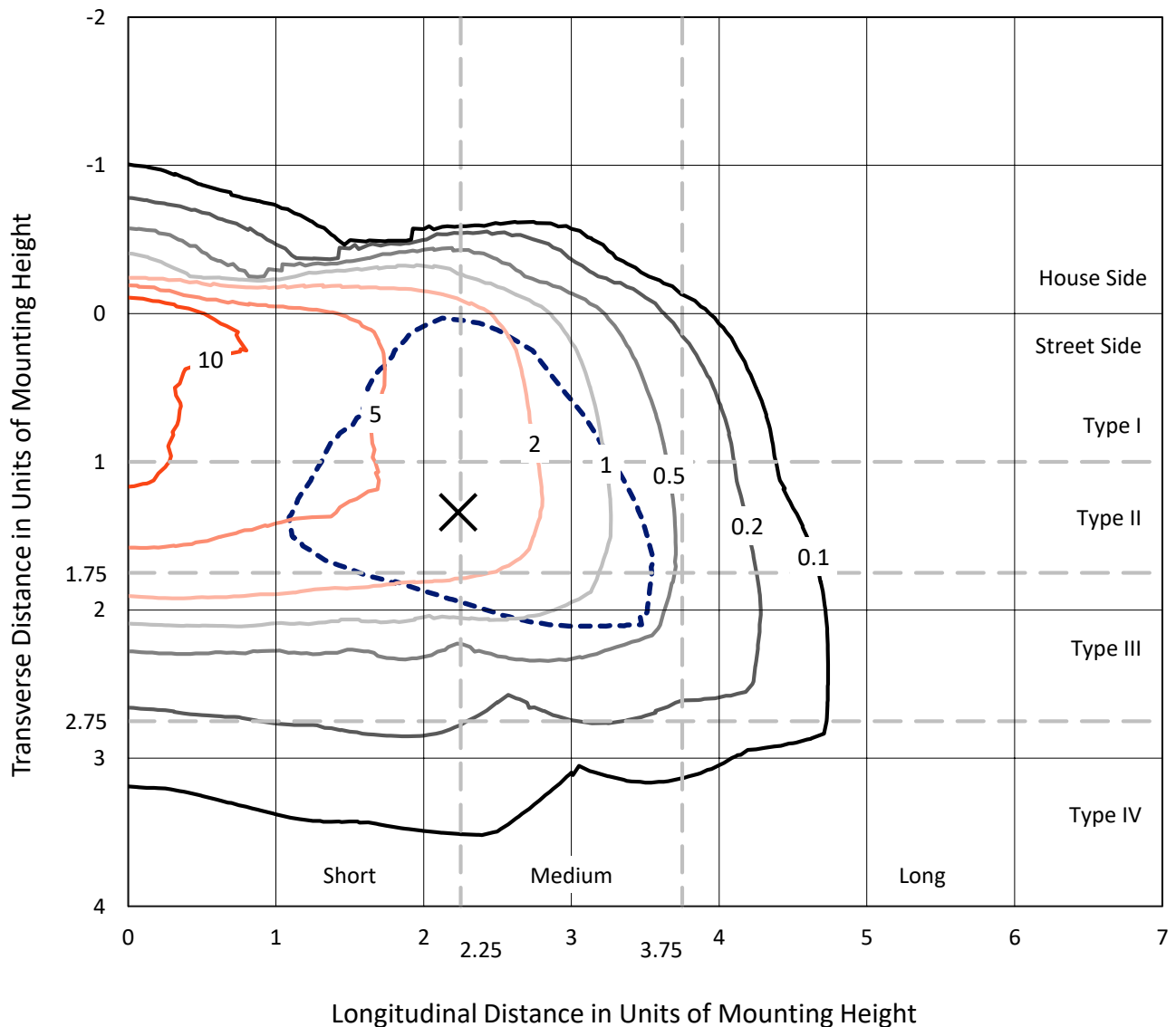


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

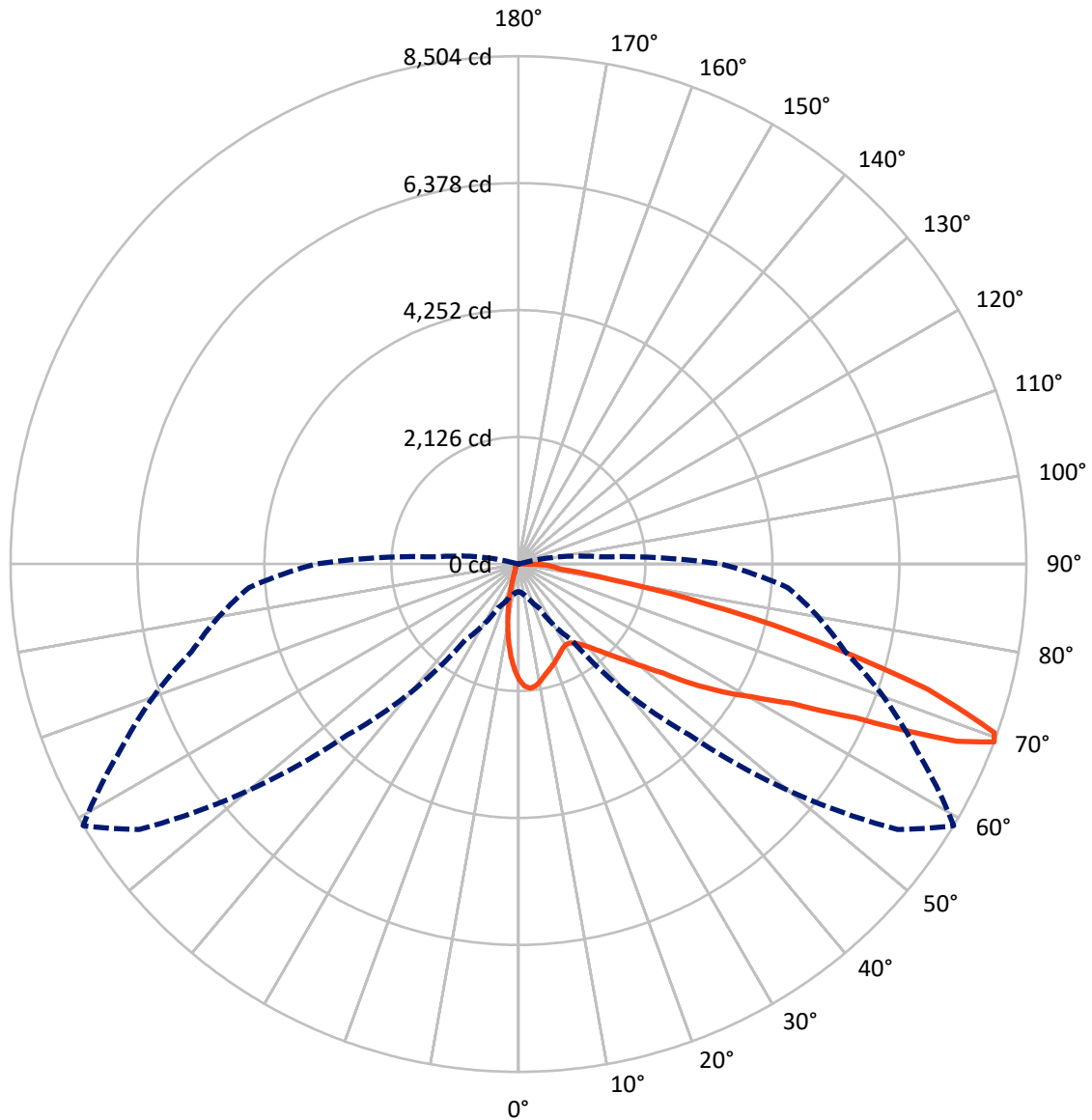


Based on 10 foot mounting height. Maximum calculated value = 19.5 fc  
 Type III - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	606.7	0.0	606.7
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	6843.7	0.0	6843.7
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	7450.4	0.0	7450.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.4	2.1
10°-20°	325.3	4.4
20°-30°	437.7	5.9
30°-40°	635.5	8.5
40°-50°	1058.1	14.2
50°-60°	1650.6	22.2
60°-70°	2042.5	27.4
70°-80°	1035.1	13.9
80°-90°	108.3	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°	7450.4	100.0
0°-180°	7450.4	100.0



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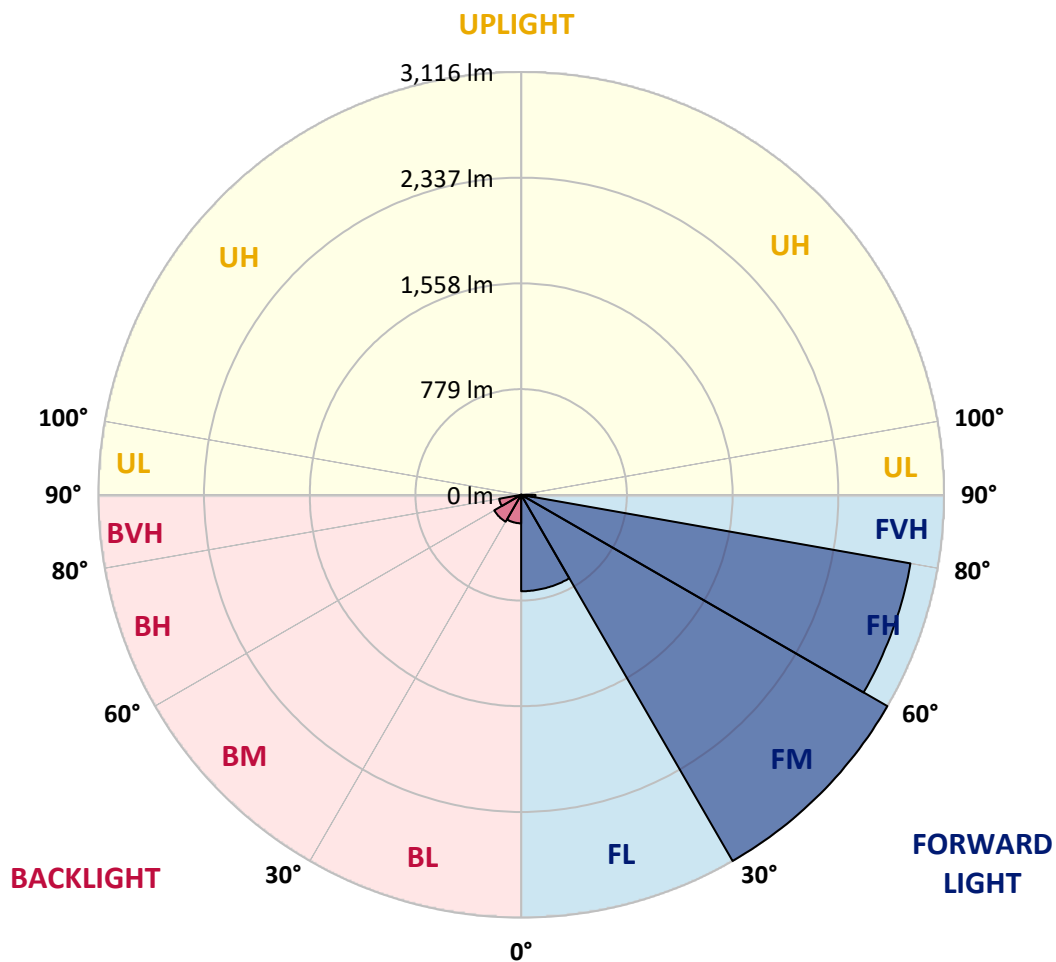
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	710.3	9.5			
FM (30°-60°)	3115.6	41.8			
FH (60°-80°)	2912.8	39.1			G2/5000
FVH (80°-90°)	105.0	1.4			G2/225
BL (0°-30°)	210.0	2.8	B1/500		
BM (30°-60°)	228.6	3.1	B1/1000		
BH (60°-80°)	164.8	2.2	B1/500		G1/500
BVH (80°-90°)	3.3	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°	1939.3	1939.3	1939.3	1939.3	1939.3	1939.3	1939.3	1939.3	1939.3	1939.3	1939.3
2.5°	2125.5	2124.6	2115.4	2111.1	2103.6	2087.5	2062.7	2049.7	2028.6	1991.9	1942.7
5°	2106.0	2116.1	2121.6	2122.1	2127.5	2121.6	2099.2	2088.4	2059.4	2000.3	1911.9
7.5°	1974.7	1978.4	1994.0	2007.5	2033.7	2058.5	2066.6	2061.8	2044.5	1981.4	1863.9
10°	1833.9	1837.8	1856.3	1874.0	1909.3	1947.6	1988.0	1996.6	2003.7	1954.4	1817.5
12.5°	1712.6	1716.4	1735.3	1758.5	1799.8	1846.9	1909.7	1923.7	1955.3	1928.8	1780.4
15°	1608.1	1609.9	1628.3	1657.0	1706.3	1767.0	1838.1	1860.5	1908.9	1910.5	1748.0
17.5°	1519.3	1523.4	1534.8	1562.2	1616.1	1691.1	1774.2	1806.1	1862.9	1895.5	1716.4
20°	1464.9	1469.1	1468.6	1483.8	1532.2	1612.3	1710.1	1748.5	1817.5	1879.9	1688.2
22.5°	1454.4	1454.4	1443.3	1441.3	1469.8	1536.9	1643.4	1690.3	1776.6	1873.1	1668.3
25°	1491.8	1490.2	1462.8	1440.4	1441.7	1481.8	1579.0	1634.6	1742.1	1877.7	1657.8
27.5°	1571.0	1568.9	1534.3	1491.8	1457.7	1457.3	1530.2	1590.0	1714.7	1899.6	1662.0
30°	1680.5	1679.7	1642.2	1588.7	1526.8	1469.8	1513.4	1567.6	1697.0	1939.3	1671.7
32.5°	1800.3	1798.9	1770.6	1714.2	1636.0	1526.8	1531.0	1576.4	1702.1	1991.9	1695.3
35°	1927.0	1924.9	1912.8	1863.4	1777.0	1631.7	1589.1	1624.6	1734.1	2070.8	1741.6
37.5°	2064.3	2066.6	2075.4	2028.2	1937.6	1778.7	1686.5	1710.6	1798.5	2177.8	1817.1
40°	2267.1	2266.7	2269.6	2207.7	2120.4	1958.7	1822.5	1830.1	1906.5	2319.7	1931.6
42.5°	2634.8	2609.0	2531.2	2404.9	2317.2	2164.2	1994.0	1986.1	2038.3	2495.3	2092.2
45°	3128.9	3074.2	2872.1	2629.8	2517.7	2395.9	2205.1	2179.4	2212.6	2706.5	2290.1
47.5°	3554.1	3497.2	3211.1	2863.9	2730.5	2615.9	2452.5	2406.0	2417.0	2942.8	2541.2
50°	3698.6	3670.7	3420.9	3067.9	2936.5	2892.6	2739.3	2682.9	2667.2	3216.2	2832.4
52.5°	3648.5	3646.3	3479.9	3200.2	3125.3	3179.1	3100.3	3035.1	2977.7	3504.4	3128.5
55°	3568.0	3578.5	3504.0	3316.1	3313.5	3440.8	3594.1	3539.7	3373.8	3817.3	3383.8
57.5°	3345.9	3391.0	3490.5	3535.1	3638.8	3769.0	4005.4	4037.3	3841.1	4057.1	3595.7
60°	2714.9	2813.9	3139.0	3566.7	4058.0	4382.3	4501.5	4529.0	4224.4	4256.3	3881.8
62.5°	1927.0	2028.2	2440.5	3164.0	4064.3	5188.3	5241.0	5133.5	4646.6	4551.7	4375.1
65°	1022.9	1100.9	1437.8	2283.9	3523.7	5375.4	6533.9	6213.8	5391.4	5132.6	5012.6
67.5°	523.3	546.9	680.8	1117.8	2422.5	4774.6	7692.9	7918.3	6675.0	5709.1	4981.9
69°	462.9	476.9	565.8	808.0	1551.3	4044.1	7749.4	8503.5	7347.1	5660.9	4527.3
70°	448.3	460.6	541.4	731.4	1212.5	3391.6	7533.2	8452.2	7519.0	5478.1	4187.7
72.5°	380.4	390.9	482.0	646.3	985.4	1683.6	6119.3	7162.0	6747.1	4563.5	3031.2
75°	254.5	289.1	462.5	605.8	916.7	956.3	4034.4	5175.7	4807.9	3078.0	1579.0
77.5°	61.1	65.8	130.7	482.0	838.4	841.7	2074.9	3217.5	2624.3	1097.1	373.2
80°	32.9	31.6	36.7	95.6	780.6	789.9	934.0	1561.8	936.9	181.9	123.0
82.5°	23.1	21.9	23.5	40.1	245.6	719.6	675.7	707.0	388.4	70.0	55.2
85°	8.4	8.1	13.0	36.2	77.2	413.7	694.3	583.1	314.6	32.0	40.5
87.5°	3.0	2.5	5.1	19.9	23.5	176.1	428.4	440.7	123.8	19.4	19.0
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°	1939.3	1939.3	1939.3	1939.3	1939.3	1939.3	1939.3	1939.3	1939.3	1939.3	1939.3
2.5°	1922.0	1895.9	1847.9	1798.5	1753.0	1698.2	1670.8	1643.9	1632.5	1628.3	1608.5
5°	1866.4	1822.1	1720.2	1617.8	1523.4	1423.2	1357.0	1303.9	1272.8	1257.5	1233.6
7.5°	1795.2	1722.7	1568.1	1410.1	1263.0	1118.1	1010.8	928.0	871.3	843.9	819.1
10°	1726.1	1629.5	1409.7	1194.3	994.8	802.5	654.2	546.9	478.2	446.5	426.3
12.5°	1664.1	1538.9	1256.6	984.2	733.5	508.5	357.6	272.1	229.5	214.9	207.7
15°	1609.0	1455.7	1112.2	784.5	496.8	290.7	195.6	166.5	159.7	159.7	158.8
17.5°	1556.8	1373.9	972.8	597.0	311.7	177.8	148.7	144.9	144.9	146.7	146.7
20°	1506.5	1296.0	837.9	428.4	196.3	141.2	134.3	133.6	134.3	136.5	136.5
22.5°	1463.6	1225.2	711.9	294.0	145.7	127.2	123.8	122.6	123.0	124.2	125.1
25°	1431.5	1165.3	593.2	199.2	125.6	115.8	112.1	110.0	108.2	108.2	109.1
27.5°	1411.3	1114.7	478.2	144.9	112.8	105.3	99.4	96.1	92.3	90.2	91.0
30°	1396.7	1066.7	370.3	118.3	101.1	93.6	86.0	80.5	75.0	72.5	73.3
32.5°	1391.1	1028.0	276.8	104.6	90.5	82.1	72.9	65.8	59.8	57.8	58.1
35°	1405.8	997.2	202.7	94.4	82.1	71.7	61.1	53.1	48.5	47.3	47.6
37.5°	1444.7	980.8	151.6	86.0	74.6	62.8	50.9	43.4	40.5	40.5	40.9
40°	1518.0	980.4	121.8	80.0	67.8	54.3	42.1	36.7	34.9	35.8	36.2
42.5°	1624.9	1002.7	106.2	74.6	62.0	46.4	34.9	31.3	30.7	31.6	32.0
45°	1771.2	1043.6	97.7	70.0	55.7	38.7	29.5	26.9	26.9	28.2	28.7
47.5°	1950.2	1103.4	90.5	65.2	49.2	32.5	25.3	23.5	24.1	25.3	25.7
50°	2166.0	1178.8	83.5	60.2	44.6	26.9	21.9	20.7	21.1	22.7	23.1
52.5°	2411.5	1280.4	77.6	55.7	38.7	22.4	18.5	17.6	18.5	20.2	20.7
55°	2622.2	1371.4	70.3	51.8	31.3	18.5	15.2	15.2	16.0	18.1	18.5
57.5°	2824.8	1466.6	64.0	44.6	24.4	14.7	12.7	13.0	14.4	16.3	16.9
60°	3122.2	1627.9	56.5	37.5	18.5	11.8	10.5	11.0	12.7	14.7	15.2
62.5°	3627.4	1873.5	48.9	31.3	14.4	9.3	8.4	9.3	11.4	14.0	14.4
65°	4083.2	1973.3	40.1	26.1	11.0	7.1	7.1	8.4	11.0	13.5	14.0
67.5°	3829.1	1661.1	31.3	20.7	8.4	5.5	5.8	8.1	10.5	13.5	14.0
69°	3386.4	1358.2	26.5	16.3	7.1	5.1	5.5	8.1	10.5	13.0	13.5
70°	3041.3	1146.7	23.5	14.0	6.3	5.1	5.5	7.5	10.5	13.0	13.5
72.5°	2036.9	619.3	19.0	10.2	5.8	4.6	4.6	7.5	10.2	12.7	13.0
75°	875.5	171.0	15.2	7.1	5.1	4.2	4.2	7.1	9.7	12.1	13.0
77.5°	160.1	43.4	12.1	6.3	5.1	4.2	3.9	6.7	9.3	11.8	12.1
80°	63.6	21.5	9.7	5.5	4.6	3.9	3.4	6.3	8.9	11.4	11.8
82.5°	38.4	12.1	8.1	5.1	4.6	3.4	3.0	5.5	8.4	11.0	11.4
85°	31.3	8.4	6.3	5.1	4.2	3.4	2.5	5.1	7.5	10.5	11.0
87.5°	15.2	5.8	5.8	4.6	4.2	3.4	2.5	4.6	7.1	10.2	10.5
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)