

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: P200594

Luminaire Tested: **GPC-AF-02-LED-E1-SL2-8030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200594  
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-SL2-8030-1200-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 80 CRI, 3000K, 1200mA 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: 9210 lumens  
Efficiency: N/A  
Efficacy: 71.4 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): 129  
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

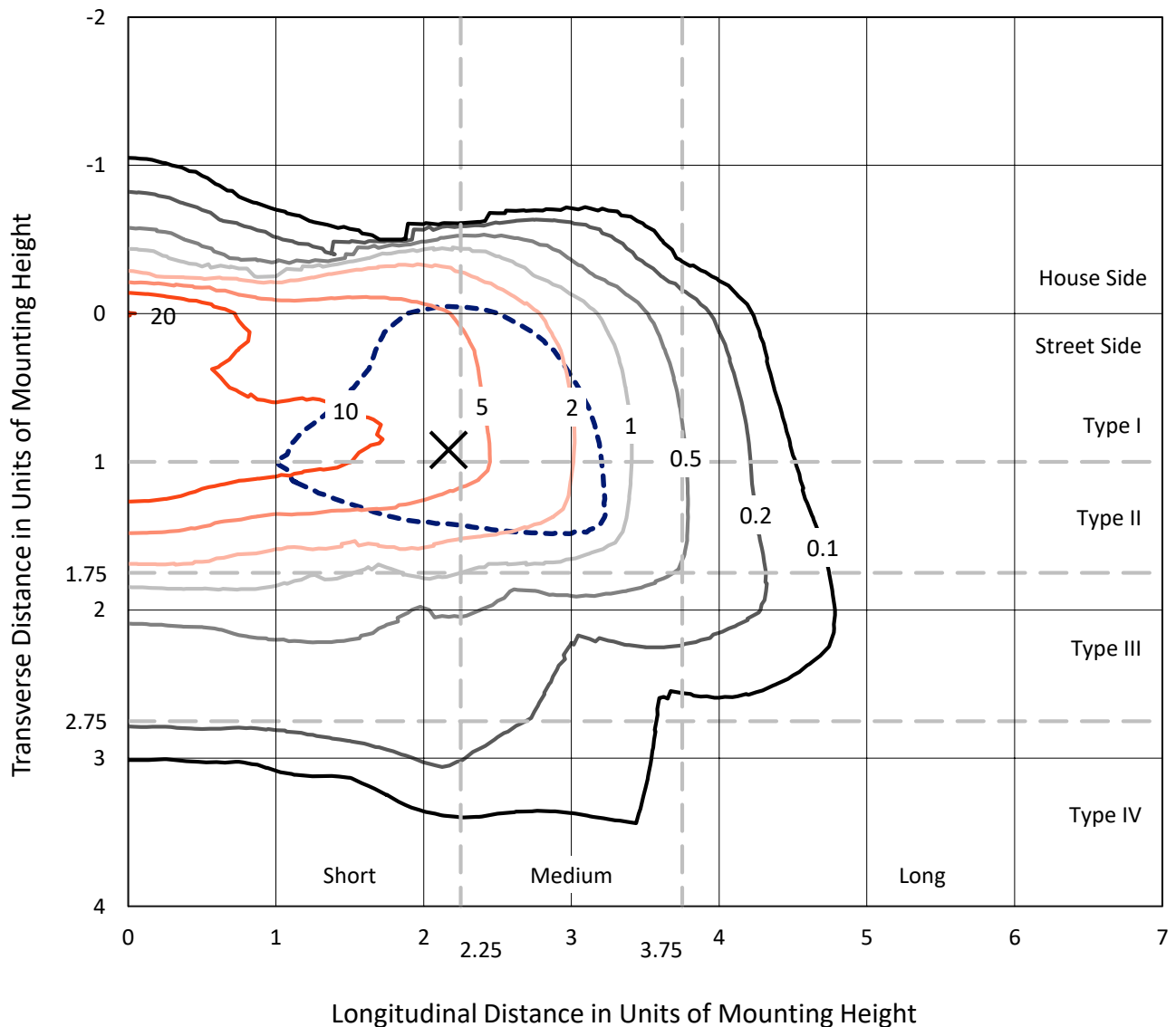


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

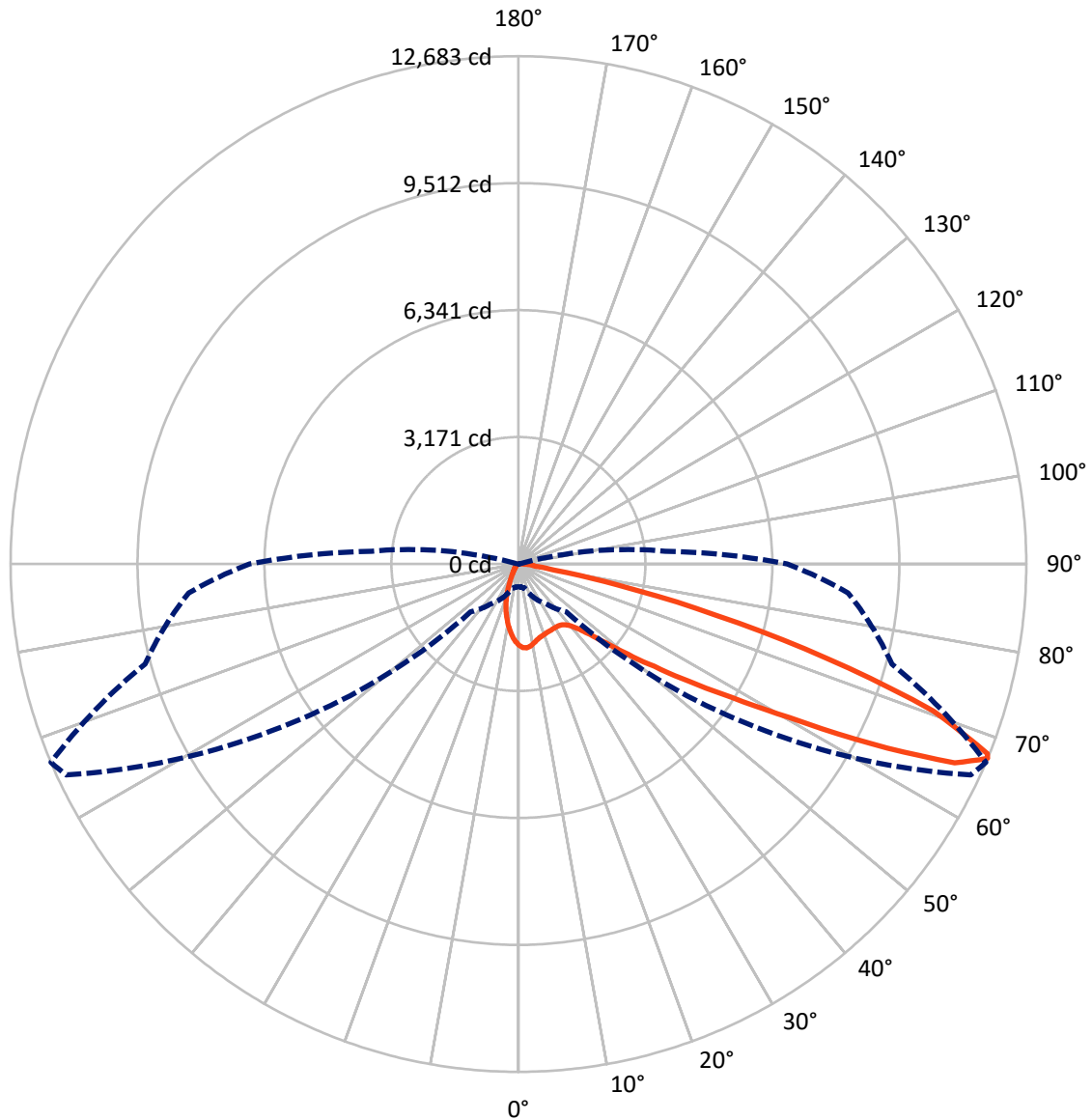


Based on 10 foot mounting height. Maximum calculated value = 20.3 fc  
 Type II - Short - Semi-Cutoff

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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	956.3	0.0	956.3
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	8253.7	0.0	8253.7
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	9210.0	0.0	9210.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.3	1.8
10°-20°	351.8	3.8
20°-30°	511.4	5.6
30°-40°	797.8	8.7
40°-50°	1413.3	15.3
50°-60°	2236.5	24.3
60°-70°	2561.6	27.8
70°-80°	1062.5	11.5
80°-90°	109.8	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°	9210.0	100.0
0°-180°	9210.0	100.0



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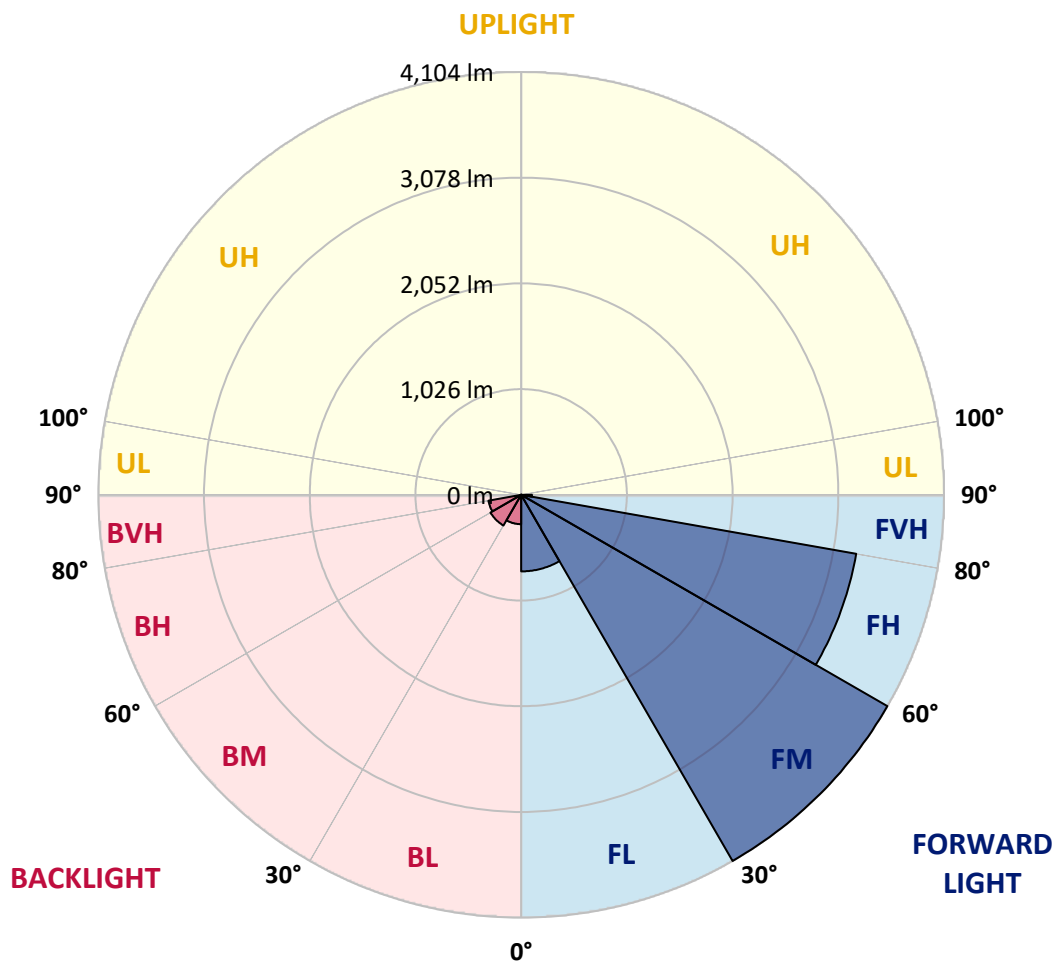
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	743.1	8.1			
FM (30°-60°)	4104.0	44.6			
FH (60°-80°)	3301.8	35.9			G2/5000
FVH (80°-90°)	104.8	1.1			G2/225
BL (0°-30°)	285.4	3.1	B1/500		
BM (30°-60°)	343.7	3.7	B1/1000		
BH (60°-80°)	322.3	3.5	B1/500		G1/500
BVH (80°-90°)	4.9	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°	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1
2.5°	2099.9	2104.2	2103.7	2106.9	2114.4	2114.9	2107.4	2092.9	2089.7	2070.9	2038.1
5°	1936.6	1949.0	1956.5	1987.1	2021.5	2062.8	2094.0	2105.3	2103.7	2090.2	2040.8
7.5°	1750.2	1762.5	1771.1	1807.1	1852.8	1923.7	2004.8	2071.4	2077.3	2091.8	2038.7
10°	1626.1	1628.2	1640.1	1674.4	1722.3	1794.8	1891.5	2008.0	2025.8	2079.0	2033.3
12.5°	1524.0	1525.6	1541.2	1578.3	1629.3	1702.4	1803.9	1938.7	1966.1	2062.8	2032.2
15°	1451.5	1457.4	1471.4	1510.1	1564.3	1636.8	1741.1	1887.7	1920.5	2056.9	2041.9
17.5°	1427.3	1433.8	1438.1	1466.0	1515.4	1586.3	1693.2	1854.4	1891.5	2060.2	2060.7
20°	1452.6	1457.4	1447.7	1454.7	1485.4	1548.7	1653.0	1825.9	1870.0	2063.9	2084.9
22.5°	1546.6	1548.7	1522.4	1491.8	1486.4	1521.3	1621.3	1803.4	1850.6	2074.1	2113.3
25°	1707.8	1704.0	1661.0	1594.9	1532.6	1516.5	1602.5	1789.4	1841.0	2084.9	2142.9
27.5°	1902.2	1907.6	1848.5	1752.3	1633.6	1548.7	1599.8	1783.5	1836.7	2092.4	2168.7
30°	2138.6	2146.1	2078.4	1957.5	1787.3	1628.2	1624.5	1782.4	1834.0	2087.6	2170.8
32.5°	2379.8	2388.9	2335.7	2211.1	1992.5	1761.5	1680.4	1794.2	1839.4	2070.9	2158.5
35°	2632.3	2645.2	2609.7	2502.8	2270.7	1953.8	1778.7	1830.2	1864.6	2069.3	2146.1
37.5°	2980.9	2992.7	2926.1	2812.8	2607.6	2211.6	1936.6	1897.9	1924.2	2095.1	2149.3
40°	3501.5	3499.8	3327.9	3154.4	2977.7	2539.3	2158.5	2020.4	2033.8	2173.0	2189.1
42.5°	4068.7	4066.1	3812.0	3548.2	3388.6	2942.8	2450.2	2232.1	2222.9	2316.4	2292.2
45°	4506.0	4505.5	4298.1	4001.0	3883.4	3405.8	2827.3	2526.4	2512.5	2549.5	2482.4
47.5°	4692.4	4695.6	4591.4	4382.5	4431.9	4032.2	3302.7	2953.0	2932.0	2917.0	2814.9
50°	4547.4	4553.8	4562.4	4521.6	4834.2	4874.0	3940.3	3554.1	3543.9	3476.7	3317.2
52.5°	4073.6	4106.3	4207.3	4336.8	4973.9	5681.9	4940.1	4300.8	4246.0	4174.6	3998.9
55°	3275.3	3311.3	3503.1	3817.3	4766.0	6212.7	6341.1	5263.5	5172.1	4958.9	4705.3
57.5°	2167.6	2223.5	2501.7	2901.4	4162.2	6298.1	7738.9	6599.5	6281.5	5697.5	5411.7
60°	1194.2	1247.9	1549.8	1911.9	3006.2	5875.9	8679.0	8338.9	7777.0	6523.2	6269.6
62.5°	735.4	764.4	987.4	1324.2	1802.8	4637.6	8873.4	10524.8	9874.2	7586.3	7305.9
65°	585.5	597.9	707.0	1082.5	1292.5	2758.5	8245.5	12191.2	11974.1	8873.4	8233.6
67°	568.4	573.2	624.8	929.4	1218.4	1691.1	6907.8	12462.5	12682.7	9652.4	8262.6
67.5°	572.1	577.5	626.4	886.9	1216.2	1554.1	6446.9	12355.6	12633.8	9714.1	8134.3
70°	551.7	568.4	717.2	886.4	1156.6	1291.4	3860.8	10705.3	10994.8	9026.0	6901.9
72.5°	195.5	196.6	310.0	717.2	1257.6	1305.4	1938.7	7847.9	8062.3	6904.6	4976.1
75°	116.0	98.8	103.1	204.1	1201.7	1267.8	1118.4	5014.7	5094.8	3956.5	2520.0
77.5°	80.0	69.8	72.0	90.2	457.7	1250.1	888.5	2615.1	2529.7	1387.6	536.7
80°	45.7	40.3	43.0	79.0	166.5	1166.3	838.0	1060.4	904.1	235.3	148.3
82.5°	24.2	20.4	24.7	65.0	116.0	726.8	839.6	512.5	406.1	79.5	101.0
85°	8.6	7.0	11.8	44.6	77.4	222.9	778.4	430.8	338.4	38.7	76.8
87.5°	1.6	1.6	4.8	18.3	31.2	68.2	460.4	255.7	171.4	23.1	52.6
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°	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1
2.5°	2024.7	2001.6	1970.4	1932.3	1887.2	1847.4	1817.9	1787.3	1780.8	1770.1	1768.5
5°	2011.3	1971.5	1894.2	1805.5	1711.0	1625.6	1556.3	1494.5	1467.1	1443.5	1440.8
7.5°	1991.4	1931.8	1800.2	1657.3	1509.5	1375.2	1261.3	1180.8	1106.6	1071.2	1065.8
10°	1968.3	1882.9	1694.3	1496.1	1292.0	1102.3	933.1	791.3	705.3	654.3	647.9
12.5°	1946.8	1835.1	1586.3	1329.0	1057.7	804.2	586.6	451.2	361.0	324.5	320.2
15°	1936.6	1796.4	1485.4	1158.2	812.8	511.9	320.7	248.2	218.6	210.0	209.5
17.5°	1935.5	1763.6	1386.5	981.5	569.4	297.6	209.0	190.7	184.8	182.6	182.6
20°	1935.0	1732.5	1287.7	798.3	361.5	198.2	174.1	169.8	165.5	162.8	162.8
22.5°	1940.9	1704.5	1184.5	611.3	227.8	160.6	153.1	148.8	143.4	139.7	139.1
25°	1946.8	1683.0	1079.2	435.1	164.9	139.7	132.2	126.2	118.7	113.9	113.3
27.5°	1947.9	1656.2	966.4	291.2	138.1	121.9	112.3	103.1	94.5	89.7	89.2
30°	1931.8	1611.1	841.3	196.6	121.9	105.8	92.9	83.3	75.2	71.4	71.4
32.5°	1900.1	1555.2	703.7	148.3	108.5	90.8	76.8	67.7	62.3	60.7	60.2
35°	1871.6	1495.0	562.4	125.7	97.2	76.8	62.9	56.9	53.7	53.2	52.6
37.5°	1854.9	1446.7	429.8	113.9	86.5	64.5	53.2	48.9	47.3	46.2	46.7
40°	1867.8	1406.4	317.5	104.2	75.7	53.7	45.1	43.0	41.4	40.8	40.8
42.5°	1924.2	1399.4	235.8	95.6	65.5	44.6	39.2	37.6	36.5	36.0	36.5
45°	2072.5	1442.4	183.2	87.6	55.3	37.6	33.3	32.8	32.2	32.2	32.2
47.5°	2295.4	1531.0	152.6	78.4	46.2	32.2	29.0	28.5	27.9	28.5	28.5
50°	2673.1	1693.2	136.4	69.3	38.1	27.4	24.7	24.7	24.7	24.7	25.2
52.5°	3247.4	2012.3	125.7	60.2	31.2	23.1	21.0	21.0	21.5	21.5	22.0
55°	3887.2	2435.7	116.0	51.0	26.3	19.3	17.2	17.7	18.3	18.8	18.8
57.5°	4581.2	2904.6	108.0	41.9	22.6	15.6	14.5	15.0	15.6	16.7	16.7
60°	5418.7	3412.3	96.2	32.8	18.8	12.4	11.3	12.4	14.0	15.0	15.6
62.5°	6338.4	3903.3	81.1	25.8	15.6	9.7	9.1	11.3	13.4	14.5	15.0
65°	6966.9	4057.5	62.3	21.0	11.8	7.0	7.5	10.2	12.9	14.5	14.5
67°	6712.3	3678.7	51.0	17.7	9.7	5.4	7.0	10.2	12.9	14.0	14.5
67.5°	6535.5	3530.5	48.9	17.2	9.1	5.4	7.0	10.2	12.9	14.5	14.5
70°	5317.7	2652.1	40.8	12.9	7.5	4.8	5.9	9.7	12.4	14.0	14.0
72.5°	3694.8	1635.2	36.5	9.1	6.4	4.3	5.4	9.1	11.8	13.4	14.0
75°	1756.6	592.0	31.2	7.0	5.9	3.8	4.8	9.1	11.8	13.4	13.4
77.5°	358.3	137.5	25.2	5.9	4.8	3.8	4.3	8.6	11.3	12.9	12.9
80°	117.6	53.2	18.8	5.4	4.8	3.8	4.3	8.1	11.3	12.4	12.9
82.5°	84.9	26.9	12.4	5.4	4.8	3.8	3.8	8.1	10.7	12.4	12.4
85°	65.0	18.8	8.1	5.4	4.8	3.8	3.8	7.5	10.2	11.8	11.8
87.5°	43.0	7.5	6.4	5.4	4.8	3.8	3.8	7.5	9.7	11.3	11.8
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)