

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: P191840

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-7050-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191840  
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: GLEON-AF-02-LED-E1-SL2-7050-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 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: 8150 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 85  
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

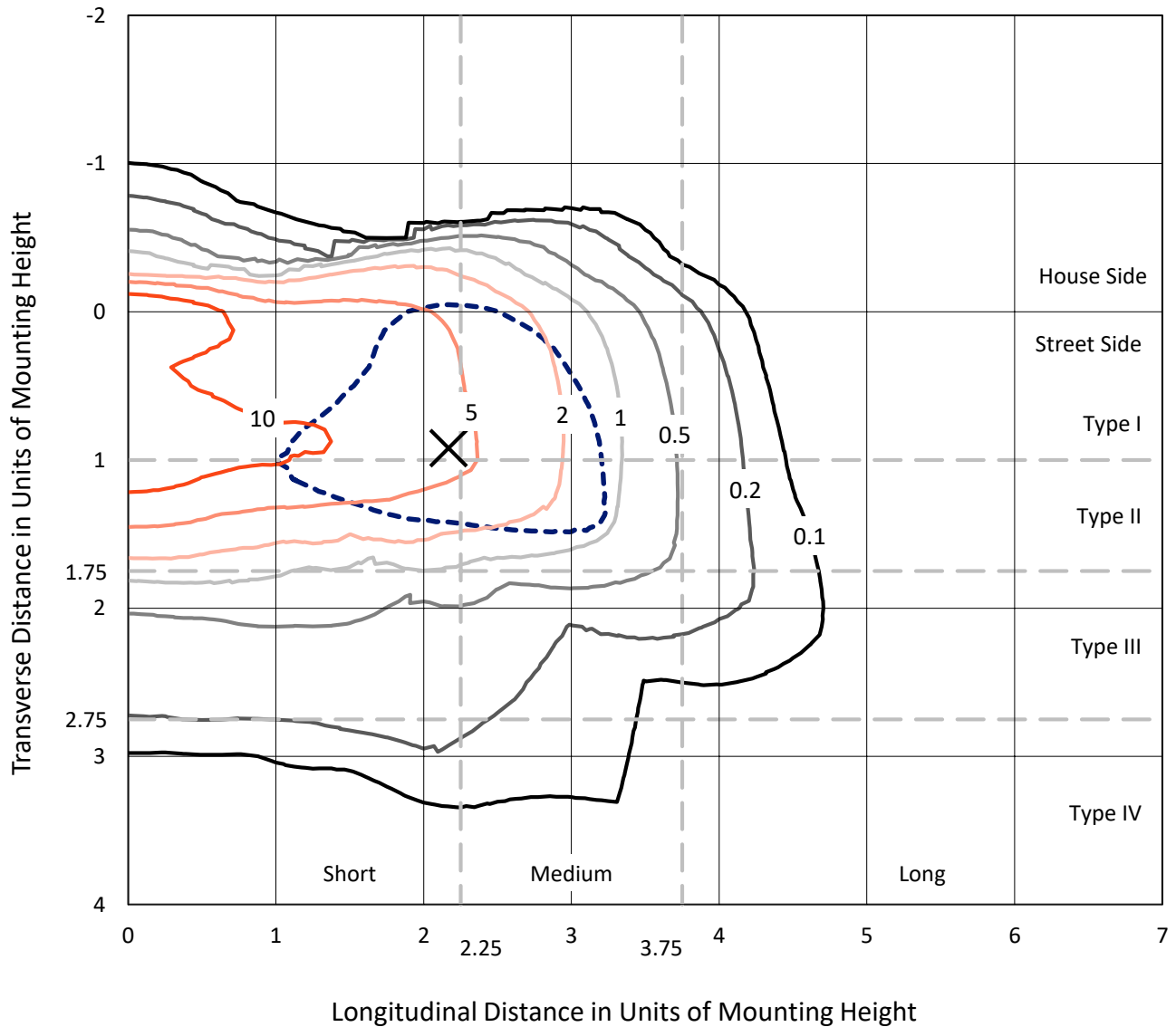


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### Iso-Footcandle Lines of Horizontal Illumination

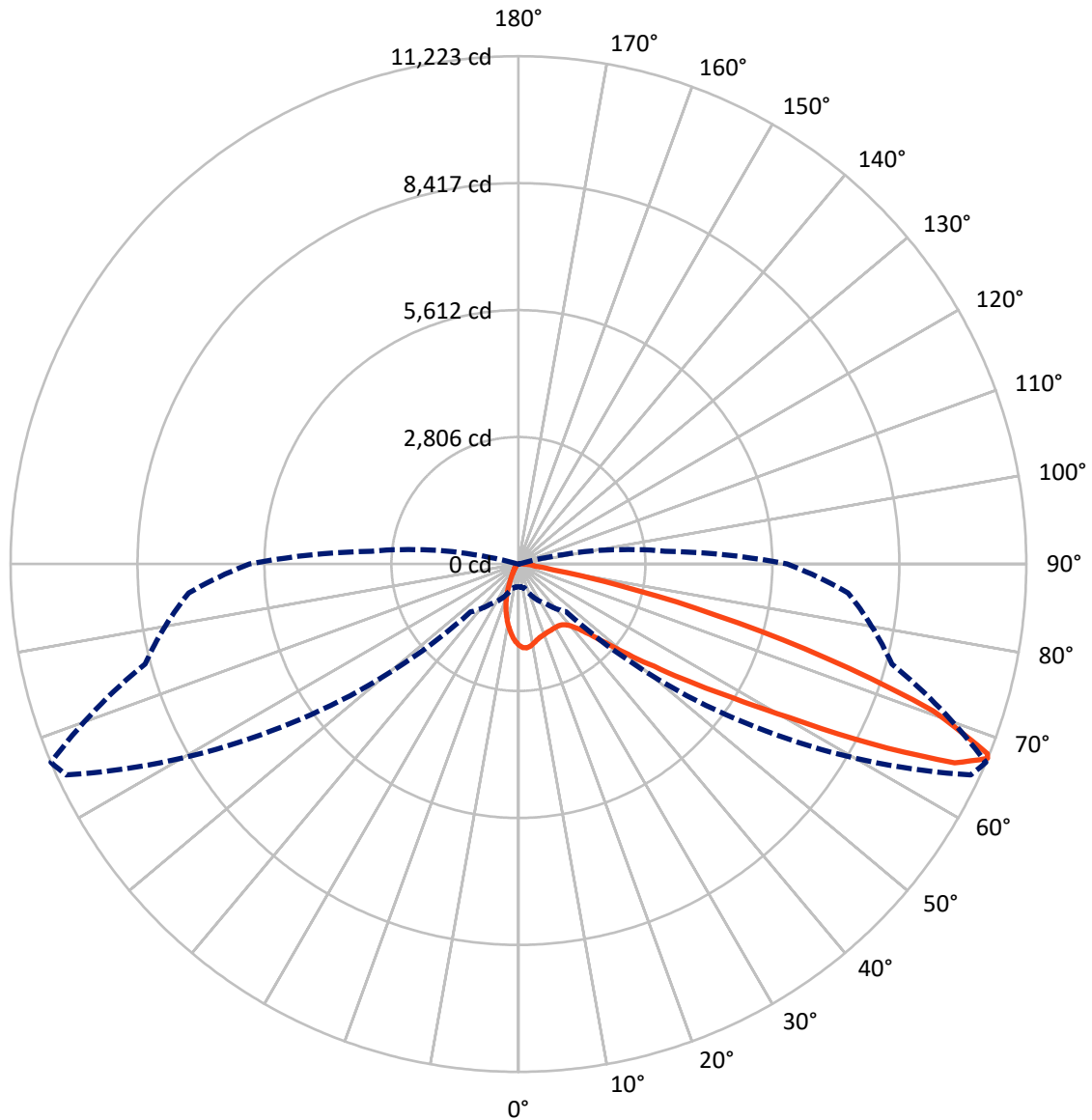
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18 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	846.2	0.0	846.2
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	7303.8	0.0	7303.8
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	8150.0	0.0	8150.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.3	1.8
10°-20°	311.3	3.8
20°-30°	452.6	5.6
30°-40°	706.0	8.7
40°-50°	1250.7	15.3
50°-60°	1979.1	24.3
60°-70°	2266.8	27.8
70°-80°	940.2	11.5
80°-90°	97.1	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°	8150.0	100.0
0°-180°	8150.0	100.0

**Coefficient of Utilization**



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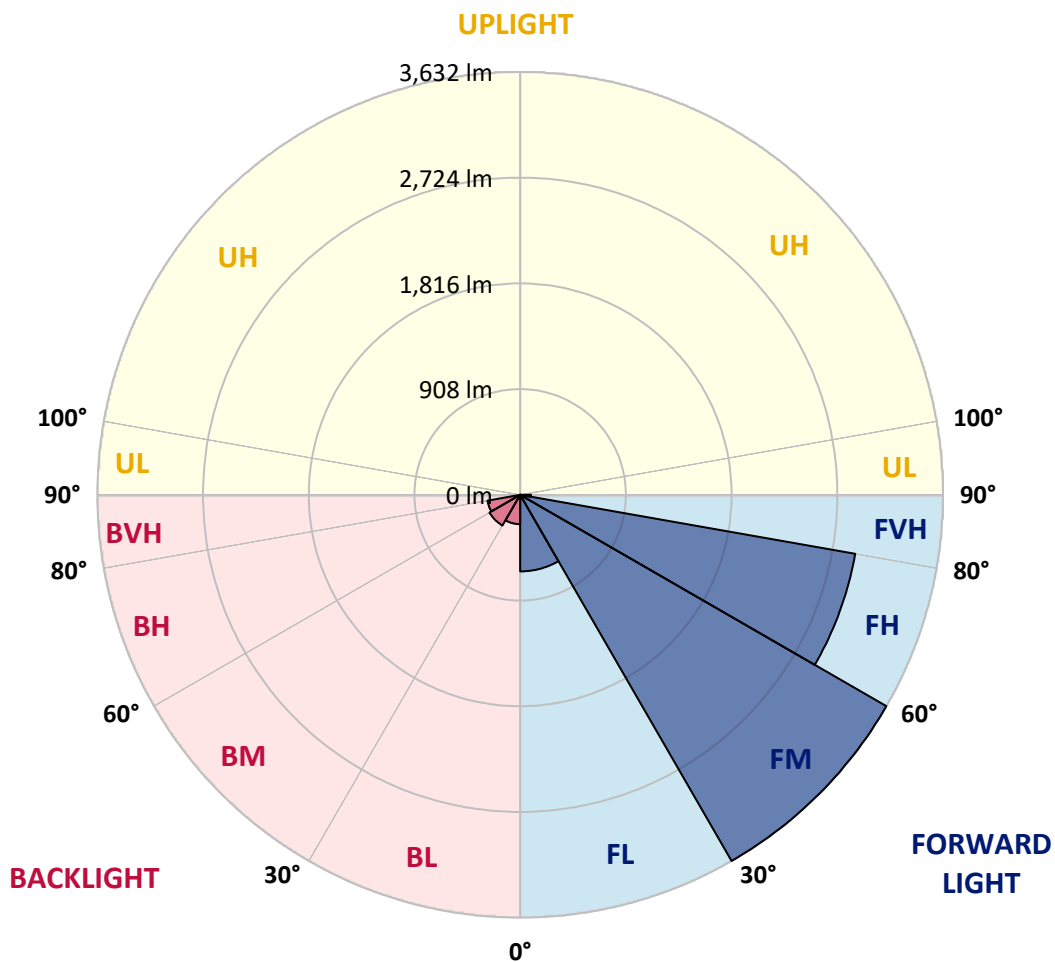
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	657.6	8.1			
FM (30°-60°)	3631.7	44.6			
FH (60°-80°)	2921.8	35.9			G2/5000
FVH (80°-90°)	92.8	1.1			G1/100
BL (0°-30°)	252.5	3.1	B1/500		
BM (30°-60°)	304.1	3.7	B1/1000		
BH (60°-80°)	285.2	3.5	B1/500		G1/500
BVH (80°-90°)	4.4	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°	1797.4	1797.4	1797.4	1797.4	1797.4	1797.4	1797.4	1797.4	1797.4	1797.4	1797.4
2.5°	1858.2	1862.0	1861.6	1864.4	1871.1	1871.5	1864.9	1852.0	1849.2	1832.6	1803.6
5°	1713.7	1724.6	1731.3	1758.4	1788.8	1825.4	1853.0	1863.0	1861.6	1849.7	1805.9
7.5°	1548.8	1559.7	1567.3	1599.1	1639.6	1702.3	1774.1	1833.0	1838.3	1851.1	1804.0
10°	1438.9	1440.8	1451.3	1481.7	1524.0	1588.2	1673.8	1776.9	1792.6	1839.7	1799.3
12.5°	1348.6	1350.1	1363.8	1396.6	1441.8	1506.4	1596.3	1715.6	1739.9	1825.4	1798.3
15°	1284.5	1289.7	1302.0	1336.3	1384.3	1448.5	1540.7	1670.5	1699.4	1820.2	1806.9
17.5°	1263.1	1268.8	1272.6	1297.3	1341.0	1403.8	1498.4	1641.0	1673.8	1823.0	1823.5
20°	1285.4	1289.7	1281.1	1287.3	1314.4	1370.5	1462.7	1615.8	1654.8	1826.4	1844.9
22.5°	1368.6	1370.5	1347.2	1320.1	1315.4	1346.2	1434.7	1595.8	1637.7	1835.4	1870.1
25°	1511.2	1507.9	1469.8	1411.4	1356.2	1342.0	1418.0	1583.5	1629.1	1844.9	1896.3
27.5°	1683.3	1688.0	1635.7	1550.7	1445.6	1370.5	1415.7	1578.2	1625.3	1851.6	1919.1
30°	1892.5	1899.1	1839.2	1732.3	1581.6	1440.8	1437.5	1577.3	1622.9	1847.3	1921.0
32.5°	2105.9	2114.0	2066.9	1956.6	1763.1	1558.7	1487.0	1587.7	1627.7	1832.6	1910.0
35°	2329.3	2340.7	2309.4	2214.8	2009.4	1728.9	1574.0	1619.6	1650.0	1831.1	1899.1
37.5°	2637.8	2648.3	2589.3	2489.0	2307.4	1957.1	1713.7	1679.5	1702.8	1853.9	1902.0
40°	3098.5	3097.0	2944.9	2791.4	2635.0	2247.1	1910.0	1787.9	1799.8	1922.9	1937.1
42.5°	3600.5	3598.1	3373.2	3139.8	2998.6	2604.1	2168.2	1975.2	1967.1	2049.8	2028.4
45°	3987.4	3986.9	3803.4	3540.6	3436.5	3013.8	2501.9	2235.7	2223.3	2256.1	2196.7
47.5°	4152.4	4155.2	4063.0	3878.1	3921.8	3568.1	2922.6	2613.1	2594.6	2581.3	2490.9
50°	4024.0	4029.7	4037.3	4001.2	4277.9	4313.0	3486.8	3145.1	3136.0	3076.6	2935.4
52.5°	3604.7	3633.7	3723.1	3837.7	4401.5	5028.0	4371.5	3805.8	3757.3	3694.1	3538.7
55°	2898.3	2930.2	3099.9	3378.0	4217.5	5497.7	5611.3	4657.7	4576.9	4388.1	4163.8
57.5°	1918.1	1967.6	2213.8	2567.5	3683.2	5573.2	6848.2	5839.9	5558.5	5041.8	4788.9
60°	1056.7	1104.3	1371.4	1691.8	2660.2	5199.6	7680.1	7379.2	6881.9	5772.4	5548.0
62.5°	650.8	676.5	873.7	1171.8	1595.3	4103.9	7852.2	9313.5	8737.8	6713.2	6465.0
65°	518.2	529.1	625.6	957.9	1143.7	2441.0	7296.5	10788.1	10596.0	7852.2	7286.0
67°	502.9	507.2	552.9	822.4	1078.1	1496.5	6112.8	11028.1	11223.0	8541.5	7311.7
67.5°	506.3	511.0	554.3	784.8	1076.2	1375.2	5704.9	10933.5	11179.8	8596.1	7198.1
70°	488.2	502.9	634.6	784.4	1023.5	1142.8	3416.5	9473.2	9729.4	7987.2	6107.6
72.5°	173.0	174.0	274.3	634.6	1112.8	1155.2	1715.6	6944.7	7134.4	6109.9	4403.4
75°	102.7	87.5	91.3	180.6	1063.4	1121.9	989.7	4437.6	4508.4	3501.1	2230.0
77.5°	70.8	61.8	63.7	79.9	405.0	1106.2	786.3	2314.1	2238.5	1227.9	474.9
80°	40.4	35.7	38.0	69.9	147.4	1032.0	741.6	938.4	800.0	208.2	131.2
82.5°	21.4	18.1	21.9	57.5	102.7	643.2	743.0	453.5	359.4	70.4	89.4
85°	7.6	6.2	10.5	39.5	68.5	197.3	688.8	381.2	299.5	34.2	68.0
87.5°	1.4	1.4	4.3	16.2	27.6	60.4	407.4	226.3	151.6	20.4	46.6
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°	1797.4	1797.4	1797.4	1797.4	1797.4	1797.4	1797.4	1797.4	1797.4	1797.4	1797.4
2.5°	1791.7	1771.2	1743.7	1709.9	1670.0	1634.8	1608.7	1581.6	1575.9	1566.3	1564.9
5°	1779.8	1744.6	1676.2	1597.7	1514.1	1438.5	1377.1	1322.5	1298.2	1277.3	1274.9
7.5°	1762.2	1709.4	1593.0	1466.5	1335.8	1216.9	1116.2	1044.9	979.3	947.9	943.1
10°	1741.8	1666.2	1499.3	1323.9	1143.3	975.5	825.7	700.2	624.2	579.0	573.3
12.5°	1722.7	1623.9	1403.8	1176.1	936.0	711.6	519.1	399.3	319.4	287.1	283.3
15°	1713.7	1589.6	1314.4	1024.9	719.2	453.0	283.8	219.6	193.5	185.9	185.4
17.5°	1712.8	1560.6	1226.9	868.5	503.9	263.4	184.9	168.8	163.5	161.6	161.6
20°	1712.3	1533.1	1139.5	706.4	319.9	175.4	154.0	150.2	146.4	144.0	144.0
22.5°	1717.5	1508.4	1048.2	541.0	201.6	142.1	135.5	131.7	126.9	123.6	123.1
25°	1722.7	1489.3	955.0	385.1	145.9	123.6	116.9	111.7	105.1	100.8	100.3
27.5°	1723.7	1465.6	855.2	257.7	122.2	107.9	99.4	91.3	83.7	79.4	78.9
30°	1709.4	1425.6	744.4	174.0	107.9	93.6	82.2	73.7	66.6	63.2	63.2
32.5°	1681.4	1376.2	622.7	131.2	96.0	80.3	68.0	59.9	55.1	53.7	53.2
35°	1656.2	1323.0	497.7	111.2	86.0	68.0	55.6	50.4	47.5	47.1	46.6
37.5°	1641.5	1280.2	380.3	100.8	76.5	57.0	47.1	43.3	41.8	40.9	41.4
40°	1652.9	1244.5	280.9	92.2	67.0	47.5	39.9	38.0	36.6	36.1	36.1
42.5°	1702.8	1238.3	208.7	84.6	58.0	39.5	34.7	33.3	32.3	31.8	32.3
45°	1834.0	1276.4	162.1	77.5	49.0	33.3	29.5	29.0	28.5	28.5	28.5
47.5°	2031.3	1354.8	135.0	69.4	40.9	28.5	25.7	25.2	24.7	25.2	25.2
50°	2365.4	1498.4	120.7	61.3	33.8	24.2	21.9	21.9	21.9	21.9	22.3
52.5°	2873.6	1780.7	111.2	53.2	27.6	20.4	18.5	18.5	19.0	19.0	19.5
55°	3439.8	2155.3	102.7	45.2	23.3	17.1	15.2	15.7	16.2	16.6	16.6
57.5°	4054.0	2570.3	95.5	37.1	20.0	13.8	12.8	13.3	13.8	14.7	14.7
60°	4795.1	3019.6	85.1	29.0	16.6	10.9	10.0	10.9	12.4	13.3	13.8
62.5°	5608.9	3454.0	71.8	22.8	13.8	8.6	8.1	10.0	11.9	12.8	13.3
65°	6165.1	3590.5	55.1	18.5	10.5	6.2	6.7	9.0	11.4	12.8	12.8
67°	5939.8	3255.3	45.2	15.7	8.6	4.8	6.2	9.0	11.4	12.4	12.8
67.5°	5783.4	3124.1	43.3	15.2	8.1	4.8	6.2	9.0	11.4	12.8	12.8
70°	4705.7	2346.9	36.1	11.4	6.7	4.3	5.2	8.6	10.9	12.4	12.4
72.5°	3269.6	1447.0	32.3	8.1	5.7	3.8	4.8	8.1	10.5	11.9	12.4
75°	1554.5	523.9	27.6	6.2	5.2	3.3	4.3	8.1	10.5	11.9	11.9
77.5°	317.1	121.7	22.3	5.2	4.3	3.3	3.8	7.6	10.0	11.4	11.4
80°	104.1	47.1	16.6	4.8	4.3	3.3	3.8	7.1	10.0	10.9	11.4
82.5°	75.1	23.8	10.9	4.8	4.3	3.3	3.3	7.1	9.5	10.9	10.9
85°	57.5	16.6	7.1	4.8	4.3	3.3	3.3	6.7	9.0	10.5	10.5
87.5°	38.0	6.7	5.7	4.8	4.3	3.3	3.3	6.7	8.6	10.0	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)