

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: P193590

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193590  
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-SL2-8030-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 1050mA 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: 8231 lumens  
Efficiency: N/A  
Efficacy: 72.8 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): 113  
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

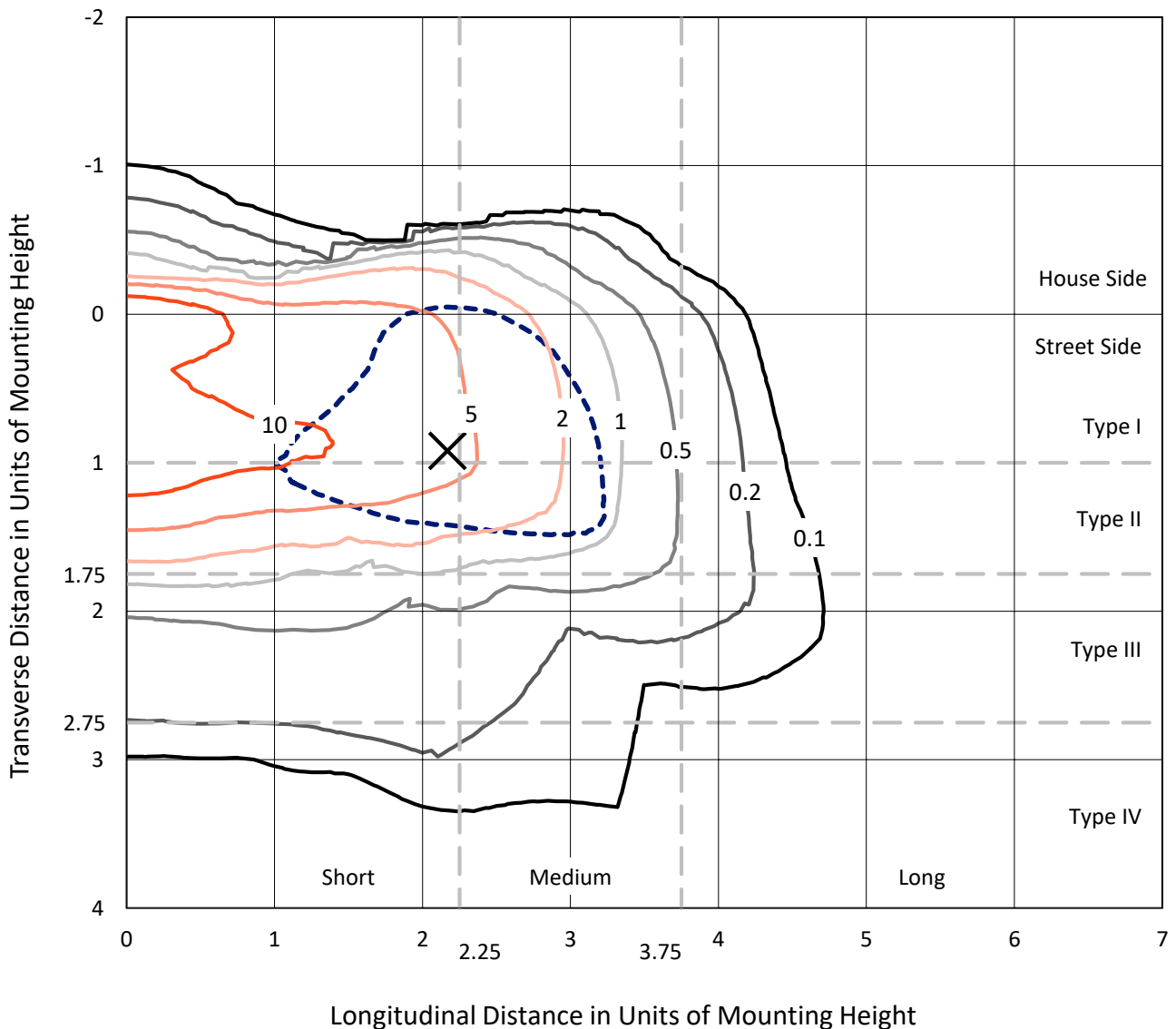


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### Iso-Footcandle Lines of Horizontal Illumination

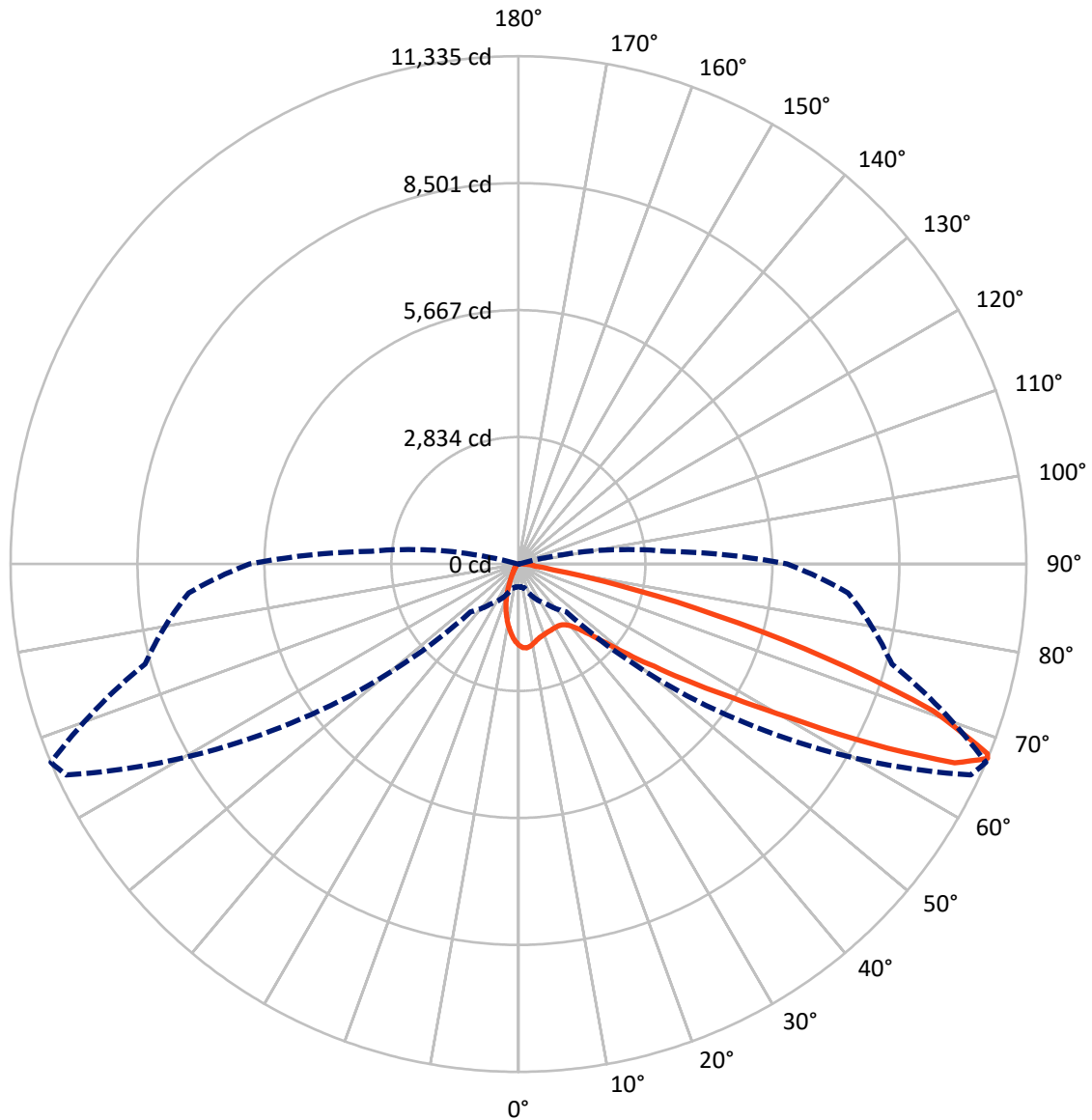
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.2 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	854.6	0.0	854.6
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	7376.4	0.0	7376.4
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	8231.0	0.0	8231.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.7	1.8
10°-20°	314.4	3.8
20°-30°	457.1	5.6
30°-40°	713.0	8.7
40°-50°	1263.1	15.3
50°-60°	1998.8	24.3
60°-70°	2289.3	27.8
70°-80°	949.6	11.5
80°-90°	98.1	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°	8231.0	100.0
0°-180°	8231.0	100.0

**Coefficient of Utilization**



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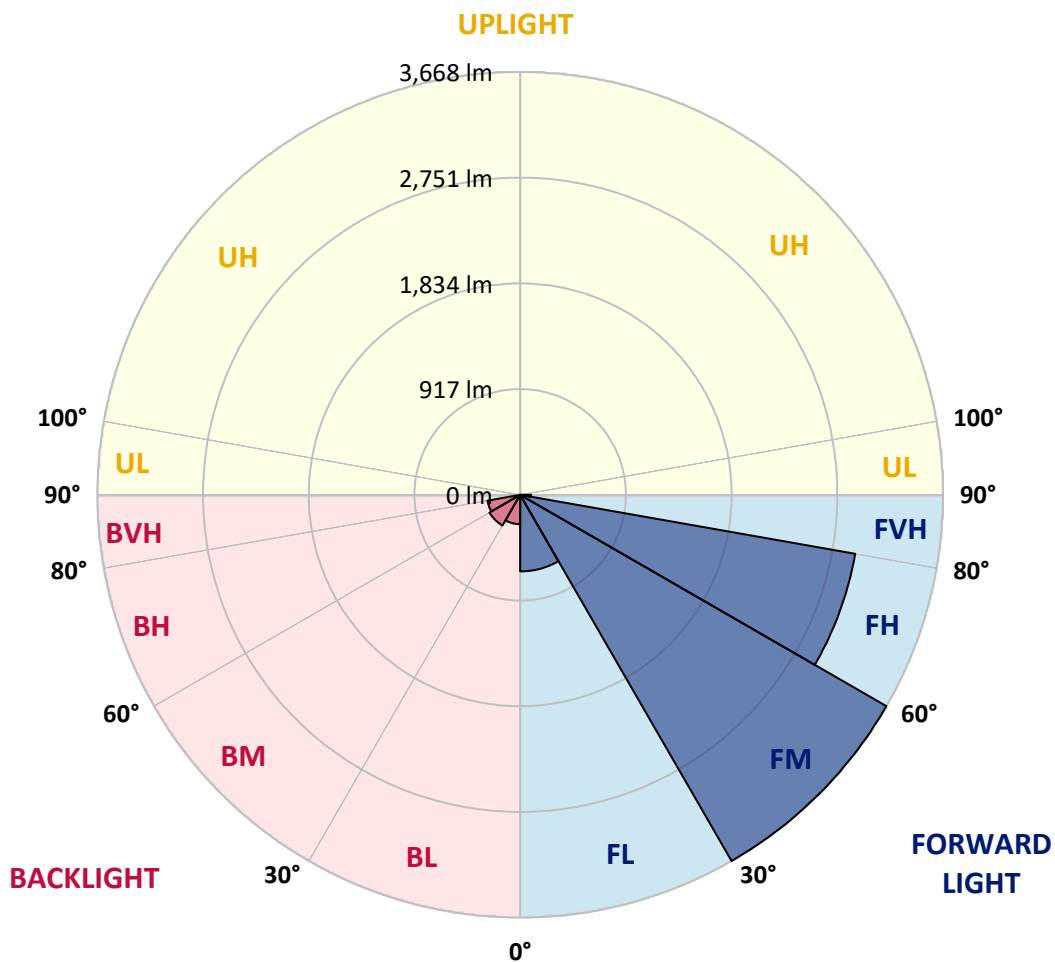
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	664.1	8.1			
FM (30°-60°)	3667.8	44.6			
FH (60°-80°)	2950.8	35.9			G2/5000
FVH (80°-90°)	93.7	1.1			G1/100
BL (0°-30°)	255.0	3.1	B1/500		
BM (30°-60°)	307.1	3.7	B1/1000		
BH (60°-80°)	288.0	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°	1815.2	1815.2	1815.2	1815.2	1815.2	1815.2	1815.2	1815.2	1815.2	1815.2	1815.2
2.5°	1876.7	1880.5	1880.1	1882.9	1889.7	1890.1	1883.4	1870.5	1867.6	1850.8	1821.5
5°	1730.7	1741.8	1748.5	1775.9	1806.6	1843.6	1871.4	1881.5	1880.1	1868.0	1823.9
7.5°	1564.1	1575.2	1582.9	1615.0	1655.8	1719.2	1791.7	1851.2	1856.5	1869.5	1822.0
10°	1453.2	1455.2	1465.7	1496.5	1539.2	1604.0	1690.4	1794.6	1810.4	1858.0	1817.2
12.5°	1362.0	1363.5	1377.4	1410.5	1456.1	1521.4	1612.2	1732.7	1757.1	1843.6	1816.2
15°	1297.2	1302.5	1315.0	1349.5	1398.0	1462.8	1556.0	1687.1	1716.3	1838.3	1824.8
17.5°	1275.6	1281.4	1285.2	1310.2	1354.3	1417.7	1513.3	1657.3	1690.4	1841.2	1841.6
20°	1298.2	1302.5	1293.9	1300.1	1327.5	1384.1	1477.3	1631.8	1671.2	1844.5	1863.2
22.5°	1382.2	1384.1	1360.6	1333.2	1328.4	1359.6	1448.9	1611.7	1653.9	1853.6	1888.7
25°	1526.2	1522.9	1484.5	1425.4	1369.7	1355.3	1432.1	1599.2	1645.3	1863.2	1915.1
27.5°	1700.0	1704.8	1652.0	1566.1	1460.0	1384.1	1429.7	1593.9	1641.4	1870.0	1938.1
30°	1911.3	1918.0	1857.5	1749.5	1597.3	1455.2	1451.8	1593.0	1639.0	1865.6	1940.1
32.5°	2126.8	2135.0	2087.5	1976.1	1780.7	1574.2	1501.7	1603.5	1643.8	1850.8	1929.0
35°	2352.5	2364.0	2332.3	2236.8	2029.4	1746.1	1589.6	1635.7	1666.4	1849.3	1918.0
37.5°	2664.0	2674.6	2615.1	2513.8	2330.4	1976.6	1730.7	1696.2	1719.7	1872.4	1920.9
40°	3129.3	3127.8	2974.2	2819.1	2661.2	2269.4	1929.0	1805.6	1817.6	1942.0	1956.4
42.5°	3636.2	3633.8	3406.8	3171.0	3028.4	2630.0	2189.7	1994.8	1986.6	2070.2	2048.6
45°	4027.0	4026.6	3841.2	3575.7	3470.6	3043.8	2526.7	2257.9	2245.4	2278.5	2218.5
47.5°	4193.6	4196.5	4103.4	3916.6	3960.8	3603.6	2951.6	2639.1	2620.4	2606.9	2515.7
50°	4064.0	4069.8	4077.4	4041.0	4320.4	4355.9	3521.5	3176.3	3167.2	3107.2	2964.6
52.5°	3640.6	3669.8	3760.1	3875.8	4445.2	5078.0	4415.0	3843.6	3794.7	3730.8	3573.8
55°	2927.1	2959.3	3130.7	3411.6	4259.4	5552.3	5667.0	4704.0	4622.4	4431.8	4205.2
57.5°	1937.2	1987.1	2235.8	2593.0	3719.8	5628.6	6916.2	5898.0	5613.8	5091.9	4836.5
60°	1067.3	1115.3	1385.1	1708.7	2686.6	5251.3	7756.4	7452.5	6950.3	5829.8	5603.2
62.5°	657.3	683.2	882.4	1183.4	1611.2	4144.7	7930.2	9406.0	8824.6	6779.9	6529.3
65°	523.3	534.3	631.8	967.4	1155.1	2465.3	7369.0	10895.3	10701.3	7930.2	7358.4
67°	507.9	512.3	558.4	830.6	1088.9	1511.3	6173.5	11137.7	11334.6	8626.3	7384.3
67.5°	511.3	516.1	559.8	792.6	1086.9	1388.9	5761.6	11042.2	11290.9	8681.6	7269.6
70°	493.1	507.9	640.9	792.2	1033.6	1154.1	3450.4	9567.3	9826.1	8066.6	6168.3
72.5°	174.8	175.7	277.0	640.9	1123.9	1166.6	1732.7	7013.7	7205.3	6170.7	4447.1
75°	103.7	88.3	92.2	182.4	1074.0	1133.0	999.6	4481.7	4553.2	3535.9	2252.1
77.5°	71.5	62.4	64.3	80.7	409.0	1117.2	794.1	2337.1	2260.8	1240.1	479.6
80°	40.8	36.0	38.4	70.6	148.8	1042.3	748.9	947.7	808.0	210.3	132.5
82.5°	21.6	18.2	22.1	58.1	103.7	649.6	750.4	458.0	363.0	71.1	90.3
85°	7.7	6.2	10.6	39.8	69.1	199.2	695.7	385.0	302.5	34.6	68.7
87.5°	1.4	1.4	4.3	16.3	27.8	61.0	411.4	228.5	153.2	20.6	47.0
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°	1815.2	1815.2	1815.2	1815.2	1815.2	1815.2	1815.2	1815.2	1815.2	1815.2	1815.2
2.5°	1809.5	1788.8	1761.0	1726.9	1686.6	1651.0	1624.6	1597.3	1591.5	1581.9	1580.5
5°	1797.5	1761.9	1692.8	1613.6	1529.1	1452.8	1390.8	1335.6	1311.1	1290.0	1287.6
7.5°	1779.7	1726.4	1608.8	1481.1	1349.1	1229.0	1127.3	1055.2	989.0	957.3	952.5
10°	1759.1	1682.7	1514.2	1337.1	1154.6	985.2	833.9	707.2	630.4	584.8	579.0
12.5°	1739.9	1640.0	1417.7	1187.8	945.3	718.7	524.3	403.3	322.6	290.0	286.1
15°	1730.7	1605.4	1327.5	1035.1	726.4	457.5	286.6	221.8	195.4	187.7	187.2
17.5°	1729.8	1576.2	1239.1	877.1	508.9	266.0	186.8	170.4	165.2	163.2	163.2
20°	1729.3	1548.3	1150.8	713.4	323.1	177.2	155.6	151.7	147.9	145.5	145.5
22.5°	1734.6	1523.3	1058.6	546.3	203.6	143.5	136.8	133.0	128.2	124.8	124.3
25°	1739.9	1504.1	964.5	388.9	147.4	124.8	118.1	112.8	106.1	101.8	101.3
27.5°	1740.8	1480.1	863.7	260.2	123.4	109.0	100.3	92.2	84.5	80.2	79.7
30°	1726.4	1439.8	751.8	175.7	109.0	94.6	83.1	74.4	67.2	63.9	63.9
32.5°	1698.1	1389.9	628.9	132.5	97.0	81.1	68.7	60.5	55.7	54.3	53.8
35°	1672.7	1336.1	502.7	112.3	86.9	68.7	56.2	50.9	48.0	47.5	47.0
37.5°	1657.8	1292.9	384.1	101.8	77.3	57.6	47.5	43.7	42.2	41.3	41.8
40°	1669.3	1256.9	283.7	93.1	67.7	48.0	40.3	38.4	37.0	36.5	36.5
42.5°	1719.7	1250.6	210.8	85.5	58.6	39.8	35.0	33.6	32.6	32.2	32.6
45°	1852.2	1289.1	163.7	78.3	49.4	33.6	29.8	29.3	28.8	28.8	28.8
47.5°	2051.4	1368.3	136.3	70.1	41.3	28.8	25.9	25.4	25.0	25.4	25.4
50°	2389.0	1513.3	121.9	61.9	34.1	24.5	22.1	22.1	22.1	22.1	22.6
52.5°	2902.2	1798.4	112.3	53.8	27.8	20.6	18.7	18.7	19.2	19.2	19.7
55°	3474.0	2176.8	103.7	45.6	23.5	17.3	15.4	15.8	16.3	16.8	16.8
57.5°	4094.3	2595.9	96.5	37.4	20.2	13.9	13.0	13.4	13.9	14.9	14.9
60°	4842.7	3049.6	85.9	29.3	16.8	11.0	10.1	11.0	12.5	13.4	13.9
62.5°	5664.6	3488.4	72.5	23.0	13.9	8.6	8.2	10.1	12.0	13.0	13.4
65°	6226.4	3626.2	55.7	18.7	10.6	6.2	6.7	9.1	11.5	13.0	13.0
67°	5998.8	3287.7	45.6	15.8	8.6	4.8	6.2	9.1	11.5	12.5	13.0
67.5°	5840.8	3155.2	43.7	15.4	8.2	4.8	6.2	9.1	11.5	13.0	13.0
70°	4752.5	2370.2	36.5	11.5	6.7	4.3	5.3	8.6	11.0	12.5	12.5
72.5°	3302.1	1461.4	32.6	8.2	5.8	3.8	4.8	8.2	10.6	12.0	12.5
75°	1569.9	529.1	27.8	6.2	5.3	3.4	4.3	8.2	10.6	12.0	12.0
77.5°	320.2	122.9	22.6	5.3	4.3	3.4	3.8	7.7	10.1	11.5	11.5
80°	105.1	47.5	16.8	4.8	4.3	3.4	3.8	7.2	10.1	11.0	11.5
82.5°	75.9	24.0	11.0	4.8	4.3	3.4	3.4	7.2	9.6	11.0	11.0
85°	58.1	16.8	7.2	4.8	4.3	3.4	3.4	6.7	9.1	10.6	10.6
87.5°	38.4	6.7	5.8	4.8	4.3	3.4	3.4	6.7	8.6	10.1	10.6
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)