

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: P270127

Luminaire Tested: **GWC-AF-02-LED-E1-SL4-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-SL4-7027-1200-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9445.9 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - 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

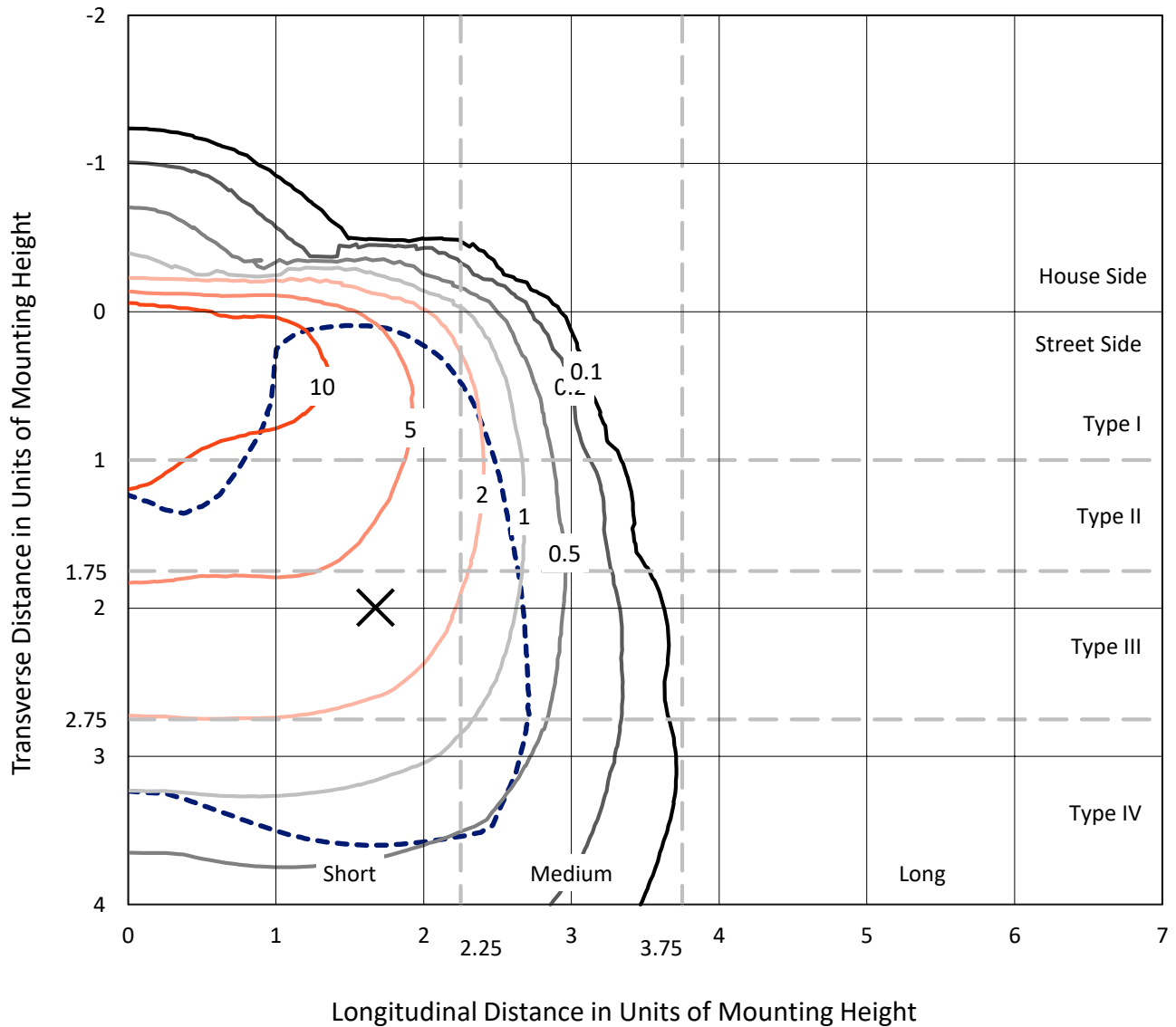


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

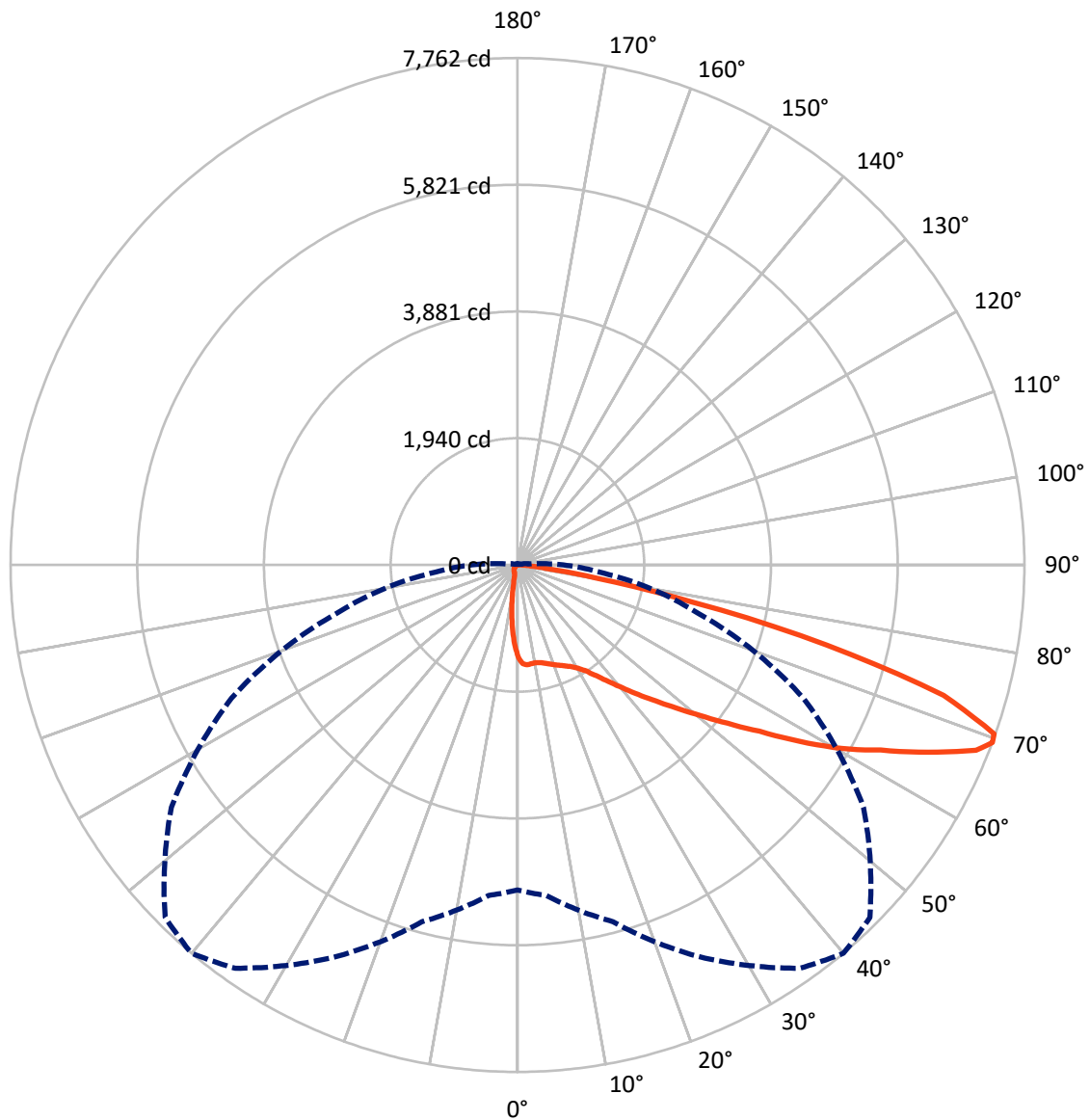


Based on 10 foot mounting height. Maximum calculated value = 15.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	552.7	0.0	552.7
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	8893.2	0.0	8893.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	9445.9	0.0	9445.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	1.2
10°-20°	281.4	3.0
20°-30°	474.0	5.0
30°-40°	775.9	8.2
40°-50°	1343.4	14.2
50°-60°	2116.0	22.4
60°-70°	2763.5	29.3
70°-80°	1423.3	15.1
80°-90°	154.0	1.6
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°	9445.9	100.0
0°-180°	9445.9	100.0

Coefficient of Utilization



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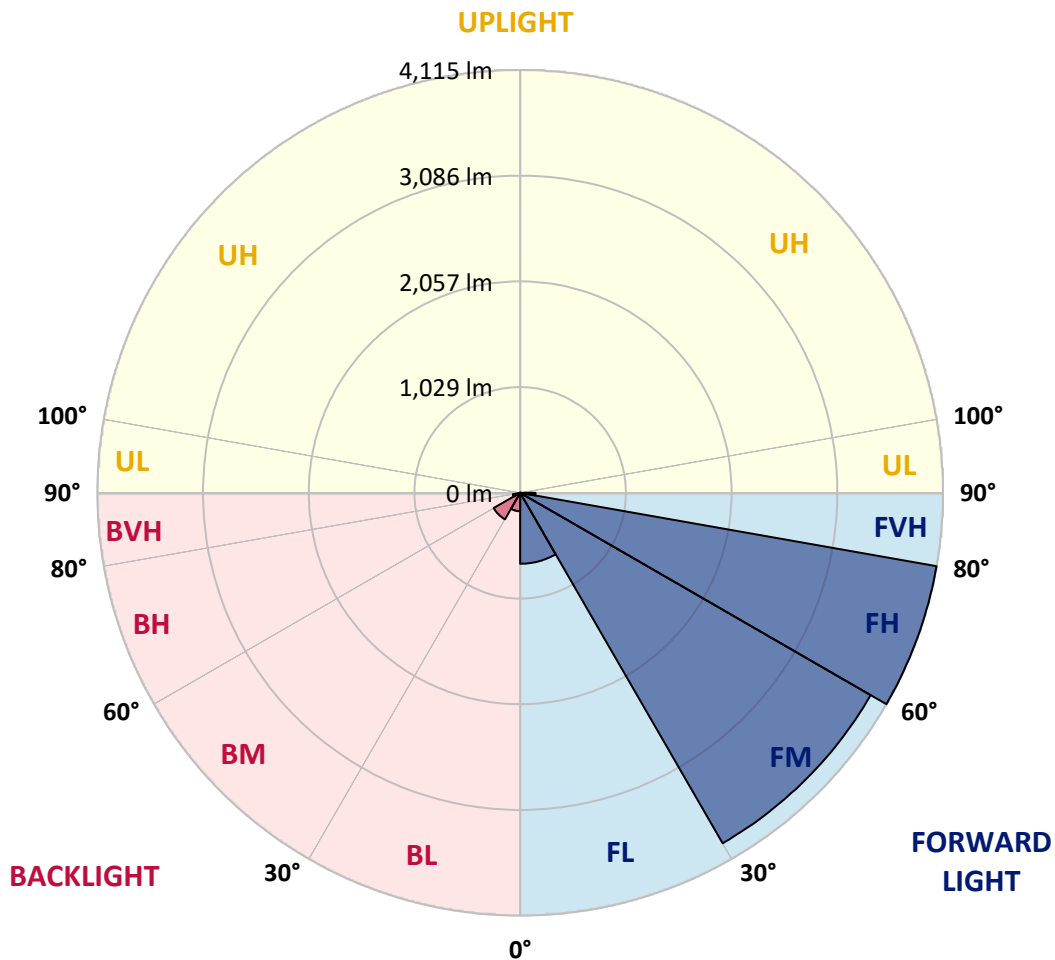
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	690.8	7.3			
FM (30°-60°)	3938.3	41.7			
FH (60°-80°)	4115.0	43.6			G2/5000
FVH (80°-90°)	149.1	1.6			G2/225
BL (0°-30°)	179.0	1.9	B1/500		
BM (30°-60°)	297.0	3.1	B1/1000		
BH (60°-80°)	71.8	0.8	B0/110		G0/110
BVH (80°-90°)	4.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2
2.5°	1549.6	1541.1	1536.0	1529.4	1520.9	1513.6	1510.8	1490.0	1470.3	1443.3	1412.3
5°	1578.2	1575.4	1566.5	1557.5	1547.3	1536.0	1529.9	1505.2	1477.1	1437.7	1383.7
7.5°	1581.1	1577.7	1566.5	1554.1	1540.0	1526.5	1515.9	1491.1	1465.2	1425.3	1359.6
10°	1576.5	1572.6	1564.2	1550.7	1533.2	1520.3	1509.7	1486.1	1464.1	1428.1	1355.0
12.5°	1571.6	1567.5	1563.6	1556.9	1541.8	1532.7	1523.7	1501.2	1481.5	1451.2	1371.4
15°	1576.5	1574.4	1578.8	1576.0	1567.5	1559.6	1550.7	1530.4	1512.5	1487.1	1401.2
17.5°	1597.9	1597.9	1612.0	1613.7	1605.8	1594.5	1581.6	1561.4	1546.2	1524.9	1436.6
20°	1647.9	1646.3	1664.3	1667.6	1648.6	1631.1	1612.0	1587.3	1575.4	1562.0	1471.4
22.5°	1734.0	1726.1	1736.8	1733.5	1695.7	1668.8	1645.2	1614.8	1608.6	1602.4	1510.1
25°	1845.8	1841.4	1848.6	1815.6	1749.2	1712.6	1684.5	1650.2	1650.2	1656.5	1554.1
27.5°	2008.3	1991.5	1966.7	1908.3	1808.8	1762.1	1731.7	1695.2	1704.8	1727.9	1612.0
30°	2174.8	2156.2	2099.4	2009.5	1881.2	1832.4	1797.0	1758.7	1781.2	1823.4	1689.5
32.5°	2339.0	2318.2	2237.8	2124.2	1985.3	1936.5	1902.1	1859.9	1897.6	1968.5	1803.1
35°	2498.1	2479.6	2386.7	2252.9	2123.6	2083.2	2051.6	2015.1	2063.5	2162.4	1963.3
37.5°	2676.9	2656.6	2543.6	2398.6	2291.7	2262.5	2239.5	2202.9	2287.3	2432.3	2186.7
40°	2896.8	2862.4	2710.1	2565.6	2486.3	2472.2	2456.5	2451.4	2582.4	2783.2	2484.0
42.5°	3148.6	3092.4	2884.4	2741.5	2699.9	2710.1	2706.1	2728.6	2951.8	3219.5	2846.1
45°	3400.5	3328.0	3078.3	2929.4	2934.9	2970.3	2992.3	3082.3	3414.5	3719.9	3235.8
47.5°	3614.2	3542.7	3264.4	3132.3	3199.9	3269.5	3329.1	3499.5	3890.3	4212.4	3538.9
50°	3796.9	3729.4	3461.8	3355.5	3507.3	3619.8	3716.5	3969.0	4401.9	4587.5	3751.3
52.5°	3946.4	3901.4	3666.4	3611.4	3858.7	4023.5	4165.2	4467.6	4855.1	4892.2	3916.7
55°	4092.1	4060.1	3886.3	3915.5	4271.4	4495.8	4675.1	4996.7	5245.3	5146.3	4075.3
57.5°	4259.6	4230.4	4137.1	4301.3	4814.0	5096.4	5291.9	5465.6	5588.8	5406.0	4224.7
60°	4430.5	4413.7	4415.9	4729.7	5437.0	5708.0	5816.0	5861.0	5926.2	5650.6	4233.2
62.5°	4593.7	4625.6	4734.7	5206.5	6033.6	6241.6	6296.1	6340.6	6264.1	5689.4	3911.0
65°	4869.7	4922.0	5182.3	5844.6	6689.7	6912.4	6968.6	6816.2	6317.5	5187.9	3181.2
67.5°	5004.6	5100.2	5564.6	6439.5	7326.2	7573.5	7552.7	6847.2	5669.2	3956.0	2041.5
69°	4976.5	5078.3	5652.9	6621.7	7537.6	7761.9	7629.8	6468.7	4829.7	2865.8	1253.2
70°	4865.1	4968.1	5607.4	6614.8	7564.6	7742.2	7487.0	6001.6	4083.6	2095.6	783.8
72.5°	4062.9	4151.6	4978.2	5979.0	6968.6	6824.1	6263.5	4157.9	1989.8	570.7	176.6
75°	2500.9	2550.4	3571.9	4504.2	5263.3	4892.2	4173.1	2068.5	593.2	161.3	97.8
77.5°	1321.2	1343.8	1955.5	2654.9	3336.4	2760.7	2138.8	806.8	273.3	101.2	70.8
80°	781.0	797.9	1053.2	1213.9	1443.9	1206.1	855.2	495.3	195.7	63.5	63.0
82.5°	447.0	457.7	763.6	674.7	569.0	485.8	425.6	469.5	117.5	42.8	65.2
85°	164.2	166.5	429.6	513.3	338.5	201.3	211.4	389.1	31.4	27.0	51.1
87.5°	76.5	74.7	221.0	314.3	197.9	127.6	164.7	85.5	12.3	17.4	14.1
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°	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2
2.5°	1394.4	1373.6	1336.0	1297.2	1257.8	1227.4	1197.5	1174.0	1166.1	1151.5	1152.6
5°	1351.7	1313.4	1234.7	1154.9	1071.7	1003.0	938.4	886.1	860.8	835.0	835.0
7.5°	1314.5	1259.0	1135.7	1005.8	871.4	758.4	656.7	580.2	538.1	504.3	503.8
10°	1300.5	1225.2	1053.2	867.0	679.7	525.8	404.9	327.3	287.4	261.5	260.3
12.5°	1306.7	1213.4	989.6	738.8	503.8	337.9	234.5	184.4	167.6	159.7	159.7
15°	1324.6	1210.0	926.1	613.5	355.9	211.4	155.8	142.2	141.1	141.1	141.1
17.5°	1346.6	1211.1	860.8	491.4	242.4	151.3	134.4	132.7	133.8	133.8	133.8
20°	1369.1	1211.6	790.5	378.5	170.9	131.6	126.5	125.9	127.1	127.1	127.6
22.5°	1396.6	1214.4	720.3	282.8	141.1	124.2	120.3	120.3	120.9	120.9	120.3
25°	1428.1	1220.1	647.1	209.8	128.7	119.1	115.8	115.3	115.8	115.3	114.7
27.5°	1467.6	1228.0	565.6	164.2	123.2	114.2	111.3	111.3	110.8	110.2	109.6
30°	1517.0	1237.0	473.9	139.4	117.5	109.6	106.8	106.3	105.7	104.6	104.6
32.5°	1592.2	1256.6	383.4	126.5	111.3	103.4	101.2	101.2	100.1	99.0	98.5
35°	1708.1	1295.4	302.5	118.7	104.6	96.7	93.9	93.9	92.8	92.3	91.6
37.5°	1868.3	1354.5	235.0	111.3	97.8	89.5	86.5	86.1	84.9	83.7	83.2
40°	2081.5	1427.6	185.0	104.6	91.1	82.1	79.8	78.7	76.5	74.7	74.7
42.5°	2349.1	1510.8	150.1	97.3	83.2	75.4	73.7	72.0	68.0	66.4	65.8
45°	2629.1	1585.5	127.1	88.8	75.4	68.6	67.5	64.7	59.6	57.9	57.9
47.5°	2830.9	1603.0	111.9	80.9	68.0	61.3	60.7	55.7	51.1	50.0	49.5
50°	2956.9	1568.6	99.4	73.1	61.3	54.5	52.9	46.7	43.9	42.8	42.1
52.5°	3041.8	1507.4	89.5	66.4	55.1	48.3	44.4	40.0	37.6	36.6	36.6
55°	3109.8	1420.8	79.3	60.2	50.0	43.3	37.6	34.2	32.1	31.0	31.0
57.5°	3128.9	1303.4	69.2	55.1	45.0	38.2	32.1	29.8	27.0	26.4	26.4
60°	2990.1	1091.4	61.3	49.0	40.5	33.1	28.1	25.2	22.5	21.9	21.3
62.5°	2624.0	844.5	53.9	43.3	35.4	28.7	24.3	20.8	18.5	18.5	18.5
65°	2001.7	566.2	47.3	37.6	31.0	24.3	20.8	16.9	15.7	15.7	16.3
67.5°	1198.2	308.1	40.5	32.1	26.4	20.3	17.4	14.6	14.1	14.6	14.6
69°	702.2	181.0	36.6	28.7	23.1	18.0	15.2	12.9	14.1	14.6	14.6
70°	433.5	122.1	33.8	25.9	20.8	16.3	14.1	12.3	13.5	14.1	14.1
72.5°	120.9	63.0	27.0	20.3	16.9	13.5	11.3	11.3	12.9	13.5	13.5
75°	78.7	46.7	20.8	15.2	12.9	10.7	9.5	10.7	12.3	12.9	12.9
77.5°	65.2	38.2	16.9	12.3	10.7	10.2	9.0	9.5	11.3	11.8	11.8
80°	59.6	27.0	13.5	11.3	9.5	9.0	8.4	7.9	10.2	10.7	10.7
82.5°	56.9	21.3	11.8	10.2	9.0	7.9	7.4	7.9	9.0	9.5	10.2
85°	35.4	14.1	10.7	9.5	7.9	7.4	7.4	7.4	8.4	9.0	9.0
87.5°	12.9	11.3	9.5	7.9	6.7	6.7	6.7	6.7	7.4	8.4	8.4
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)