

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: P193581

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193581
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-03-LED-E1-SL2-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 9923 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 124
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

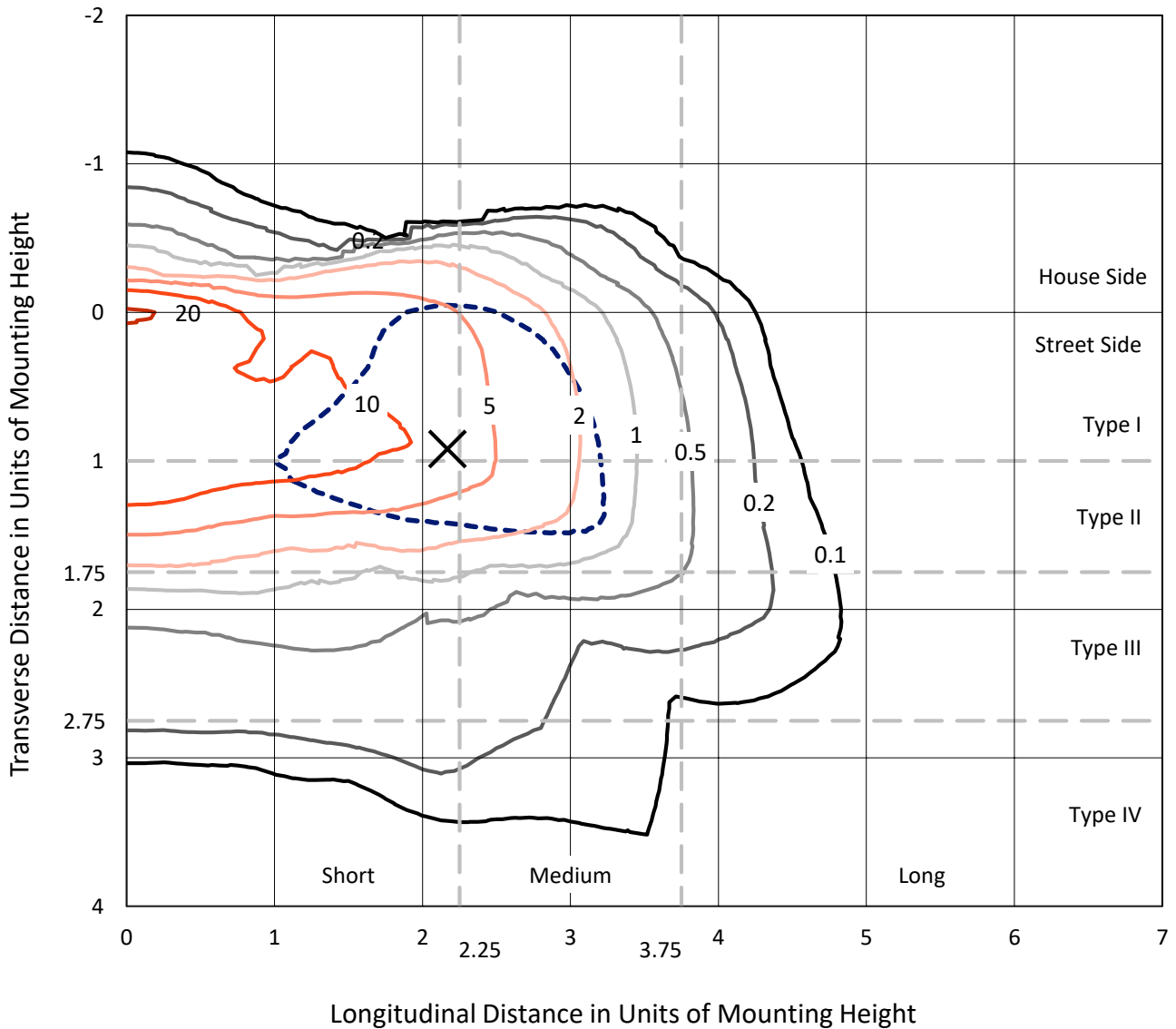


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

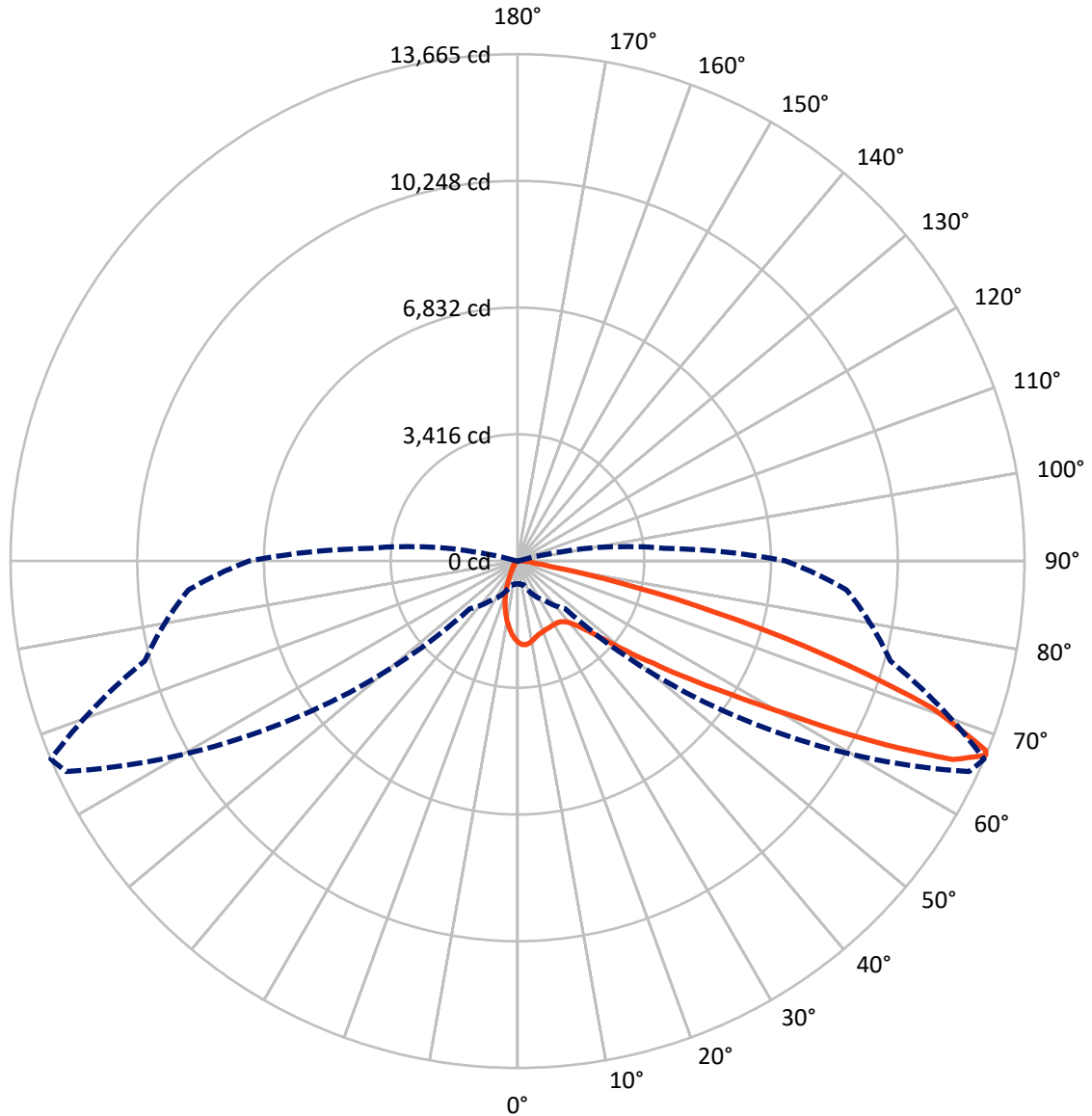


Based on 10 foot mounting height. Maximum calculated value = 21.9 fc
 Type II - Short - Semi-Cutoff

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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
House Side	Lumens	1030.3	0.0	1030.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	8892.7	0.0	8892.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	9923.0	0.0	9923.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.1	1.8
10°-20°	379.0	3.8
20°-30°	551.0	5.6
30°-40°	859.6	8.7
40°-50°	1522.8	15.3
50°-60°	2409.6	24.3
60°-70°	2759.9	27.8
70°-80°	1144.8	11.5
80°-90°	118.3	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°	9923.0	100.0
0°-180°	9923.0	100.0

Coefficient of Utilization



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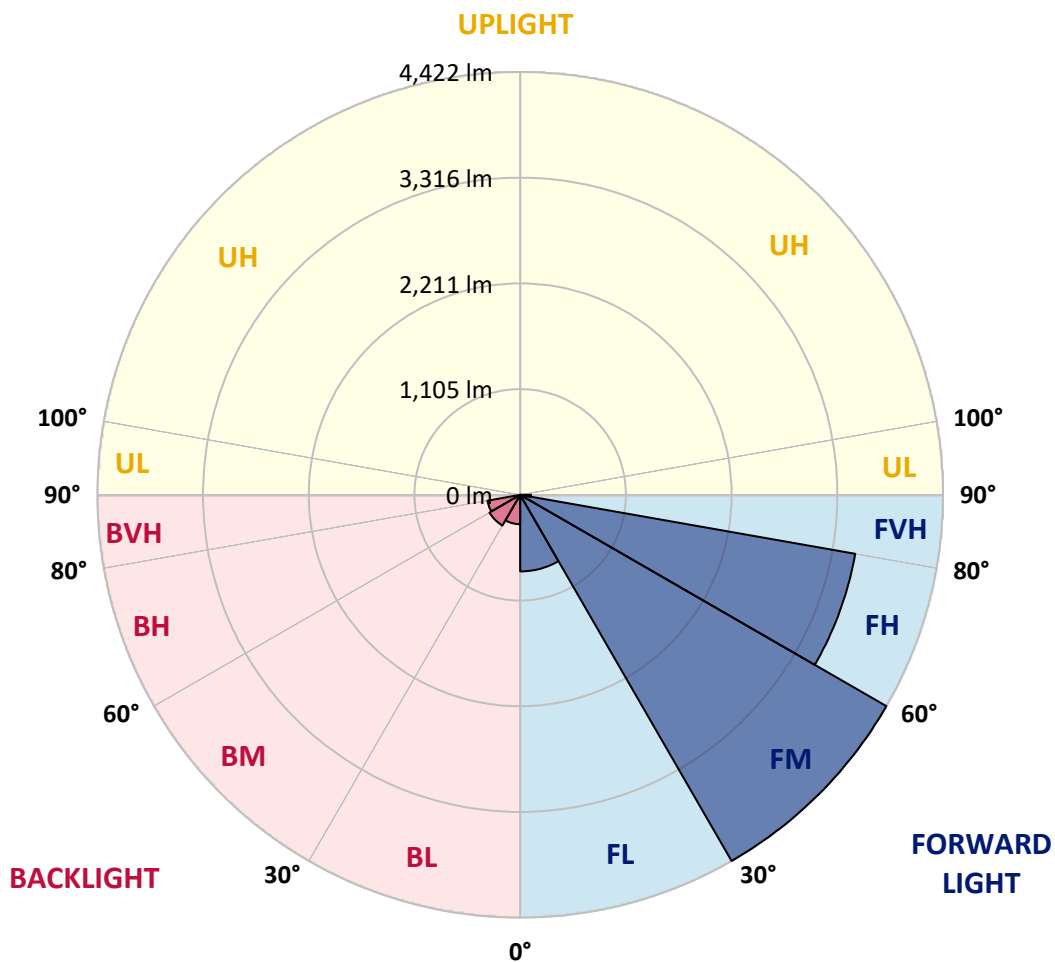
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	800.6	8.1			
FM (30°-60°)	4421.7	44.6			
FH (60°-80°)	3557.4	35.9			G2/5000
FVH (80°-90°)	112.9	1.1			G2/225
BL (0°-30°)	307.4	3.1	B1/500		
BM (30°-60°)	370.3	3.7	B1/1000		
BH (60°-80°)	347.3	3.5	B1/500		G1/500
BVH (80°-90°)	5.3	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°	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4
2.5°	2262.5	2267.1	2266.5	2270.0	2278.1	2278.7	2270.6	2254.9	2251.5	2231.2	2195.9
5°	2086.5	2099.8	2107.9	2140.9	2178.0	2222.5	2256.1	2268.3	2266.5	2252.1	2198.8
7.5°	1885.7	1899.0	1908.3	1947.0	1996.2	2072.6	2160.0	2231.8	2238.2	2253.8	2196.5
10°	1752.0	1754.3	1767.0	1804.1	1855.6	1933.7	2037.9	2163.5	2182.6	2239.9	2190.7
12.5°	1642.0	1643.8	1660.5	1700.5	1755.5	1834.2	1943.6	2088.8	2118.4	2222.5	2189.5
15°	1563.9	1570.2	1585.3	1627.0	1685.4	1763.6	1875.8	2033.9	2069.2	2216.2	2200.0
17.5°	1537.8	1544.8	1549.4	1579.5	1632.8	1709.2	1824.3	1998.0	2037.9	2219.6	2220.2
20°	1565.0	1570.2	1559.8	1567.4	1600.3	1668.6	1780.9	1967.3	2014.8	2223.7	2246.3
22.5°	1666.3	1668.6	1640.3	1607.3	1601.5	1639.1	1746.8	1943.0	1993.9	2234.7	2276.9
25°	1840.0	1835.9	1789.6	1718.4	1651.3	1633.9	1726.5	1927.9	1983.5	2246.3	2308.8
27.5°	2049.5	2055.3	1991.6	1888.0	1760.1	1668.6	1723.6	1921.6	1978.9	2254.4	2336.6
30°	2304.1	2312.2	2239.3	2109.1	1925.6	1754.3	1750.2	1920.4	1976.0	2249.2	2338.9
32.5°	2564.0	2573.9	2516.6	2382.3	2146.7	1897.8	1810.4	1933.1	1981.8	2231.2	2325.6
35°	2836.0	2849.9	2811.7	2696.6	2446.5	2105.0	1916.4	1971.9	2009.0	2229.5	2312.2
37.5°	3211.7	3224.4	3152.6	3030.5	2809.4	2382.9	2086.5	2044.8	2073.2	2257.3	2315.7
40°	3772.5	3770.8	3585.6	3398.6	3208.2	2735.9	2325.6	2176.8	2191.3	2341.2	2358.6
42.5°	4383.7	4380.8	4107.1	3822.9	3651.0	3170.6	2639.8	2404.9	2395.0	2495.7	2469.7
45°	4854.9	4854.3	4630.9	4310.8	4184.0	3669.5	3046.1	2722.0	2707.0	2746.9	2674.6
47.5°	5055.7	5059.2	4946.9	4721.7	4775.0	4344.4	3558.4	3181.6	3159.0	3142.8	3032.8
50°	4899.4	4906.4	4915.6	4871.6	5208.5	5251.3	4245.4	3829.2	3818.2	3745.9	3574.0
52.5°	4388.9	4424.2	4533.0	4672.5	5359.0	6121.8	5322.5	4633.8	4574.7	4497.7	4308.5
55°	3528.9	3567.6	3774.3	4112.8	5135.0	6693.7	6832.0	5670.9	5572.5	5342.8	5069.6
57.5°	2335.4	2395.6	2695.4	3126.0	4484.4	6785.7	8338.0	7110.4	6767.7	6138.6	5830.7
60°	1286.6	1344.5	1669.8	2059.9	3238.9	6330.8	9350.9	8984.5	8379.1	7028.2	6755.0
62.5°	792.4	823.6	1063.8	1426.7	1942.4	4996.7	9560.4	11339.6	10638.7	8173.6	7871.5
65°	630.9	644.2	761.7	1166.3	1392.6	2972.1	8883.8	13135.0	12901.1	9560.4	8871.0
67°	612.4	617.6	673.1	1001.3	1312.7	1822.0	7442.6	13427.2	13664.5	10399.6	8902.3
67.5°	616.4	622.2	674.9	955.6	1310.4	1674.4	6946.0	13312.1	13611.9	10466.2	8764.0
70°	594.4	612.4	772.7	955.0	1246.1	1391.4	4159.7	11534.0	11846.0	9724.8	7436.2
72.5°	210.7	211.8	334.0	772.7	1354.9	1406.4	2088.8	8455.5	8686.4	7439.1	5361.3
75°	125.0	106.5	111.1	219.9	1294.7	1365.9	1205.0	5403.0	5489.2	4262.8	2715.1
77.5°	86.2	75.2	77.6	97.2	493.1	1346.8	957.3	2817.5	2725.5	1495.0	578.2
80°	49.2	43.4	46.3	85.1	179.4	1256.5	902.9	1142.5	974.1	253.5	159.7
82.5°	26.0	22.0	26.6	70.0	125.0	783.1	904.6	552.2	437.6	85.7	108.8
85°	9.3	7.5	12.7	48.0	83.3	240.2	838.7	464.2	364.6	41.7	82.8
87.5°	1.7	1.7	5.2	19.7	33.6	73.5	496.0	275.5	184.6	24.9	56.7
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°	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4
2.5°	2181.4	2156.6	2123.0	2081.9	2033.3	1990.4	1958.6	1925.6	1918.7	1907.1	1905.4
5°	2167.0	2124.1	2040.8	1945.3	1843.4	1751.4	1676.7	1610.2	1580.7	1555.2	1552.3
7.5°	2145.6	2081.3	1939.5	1785.6	1626.4	1481.7	1359.0	1272.2	1192.3	1154.1	1148.3
10°	2120.7	2028.6	1825.5	1611.9	1392.0	1187.7	1005.4	852.6	759.9	705.0	698.0
12.5°	2097.5	1977.1	1709.2	1431.9	1139.6	866.4	632.0	486.2	388.9	349.6	345.0
15°	2086.5	1935.5	1600.3	1247.9	875.7	551.6	345.5	267.4	235.6	226.3	225.7
17.5°	2085.4	1900.2	1493.8	1057.4	613.5	320.6	225.1	205.5	199.1	196.8	196.8
20°	2084.8	1866.6	1387.3	860.1	389.5	213.6	187.5	182.9	178.3	175.4	175.4
22.5°	2091.2	1836.5	1276.2	658.7	245.4	173.1	165.0	160.3	154.5	150.5	149.9
25°	2097.5	1813.3	1162.8	468.8	177.7	150.5	142.4	136.0	127.9	122.7	122.1
27.5°	2098.7	1784.4	1041.2	313.7	148.7	131.4	121.0	111.1	101.9	96.7	96.1
30°	2081.3	1735.8	906.4	211.8	131.4	114.0	100.1	89.7	81.0	77.0	77.0
32.5°	2047.2	1675.6	758.2	159.7	116.9	97.8	82.8	72.9	67.1	65.4	64.8
35°	2016.5	1610.8	606.0	135.4	104.8	82.8	67.7	61.4	57.9	57.3	56.7
37.5°	1998.5	1558.7	463.0	122.7	93.2	69.5	57.3	52.7	50.9	49.8	50.4
40°	2012.4	1515.3	342.1	112.3	81.6	57.9	48.6	46.3	44.6	44.0	44.0
42.5°	2073.2	1507.7	254.1	103.0	70.6	48.0	42.3	40.5	39.4	38.8	39.4
45°	2233.0	1554.0	197.4	94.3	59.6	40.5	35.9	35.3	34.7	34.7	34.7
47.5°	2473.2	1649.5	164.4	84.5	49.8	34.7	31.3	30.7	30.1	30.7	30.7
50°	2880.0	1824.3	147.0	74.7	41.1	29.5	26.6	26.6	26.6	26.6	27.2
52.5°	3498.8	2168.1	135.4	64.8	33.6	24.9	22.6	22.6	23.2	23.2	23.7
55°	4188.1	2624.2	125.0	55.0	28.4	20.8	18.5	19.1	19.7	20.3	20.3
57.5°	4935.9	3129.5	116.3	45.1	24.3	16.8	15.6	16.2	16.8	17.9	17.9
60°	5838.2	3676.4	103.6	35.3	20.3	13.3	12.2	13.3	15.0	16.2	16.8
62.5°	6829.1	4205.5	87.4	27.8	16.8	10.4	9.8	12.2	14.5	15.6	16.2
65°	7506.3	4371.6	67.1	22.6	12.7	7.5	8.1	11.0	13.9	15.6	15.6
67°	7231.9	3963.5	55.0	19.1	10.4	5.8	7.5	11.0	13.9	15.0	15.6
67.5°	7041.5	3803.8	52.7	18.5	9.8	5.8	7.5	11.0	13.9	15.6	15.6
70°	5729.4	2857.5	44.0	13.9	8.1	5.2	6.4	10.4	13.3	15.0	15.0
72.5°	3980.9	1761.8	39.4	9.8	6.9	4.6	5.8	9.8	12.7	14.5	15.0
75°	1892.6	637.8	33.6	7.5	6.4	4.1	5.2	9.8	12.7	14.5	14.5
77.5°	386.0	148.2	27.2	6.4	5.2	4.1	4.6	9.3	12.2	13.9	13.9
80°	126.8	57.3	20.3	5.8	5.2	4.1	4.6	8.7	12.2	13.3	13.9
82.5°	91.4	28.9	13.3	5.8	5.2	4.1	4.1	8.7	11.6	13.3	13.3
85°	70.0	20.3	8.7	5.8	5.2	4.1	4.1	8.1	11.0	12.7	12.7
87.5°	46.3	8.1	6.9	5.8	5.2	4.1	4.1	8.1	10.4	12.2	12.7
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)