

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: P270048

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270048
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: GPC-AF-02-LED-E1-SL4-7027-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 1050mA 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: 8759.7 lumens
Efficiency: N/A
Efficacy: 77.5 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

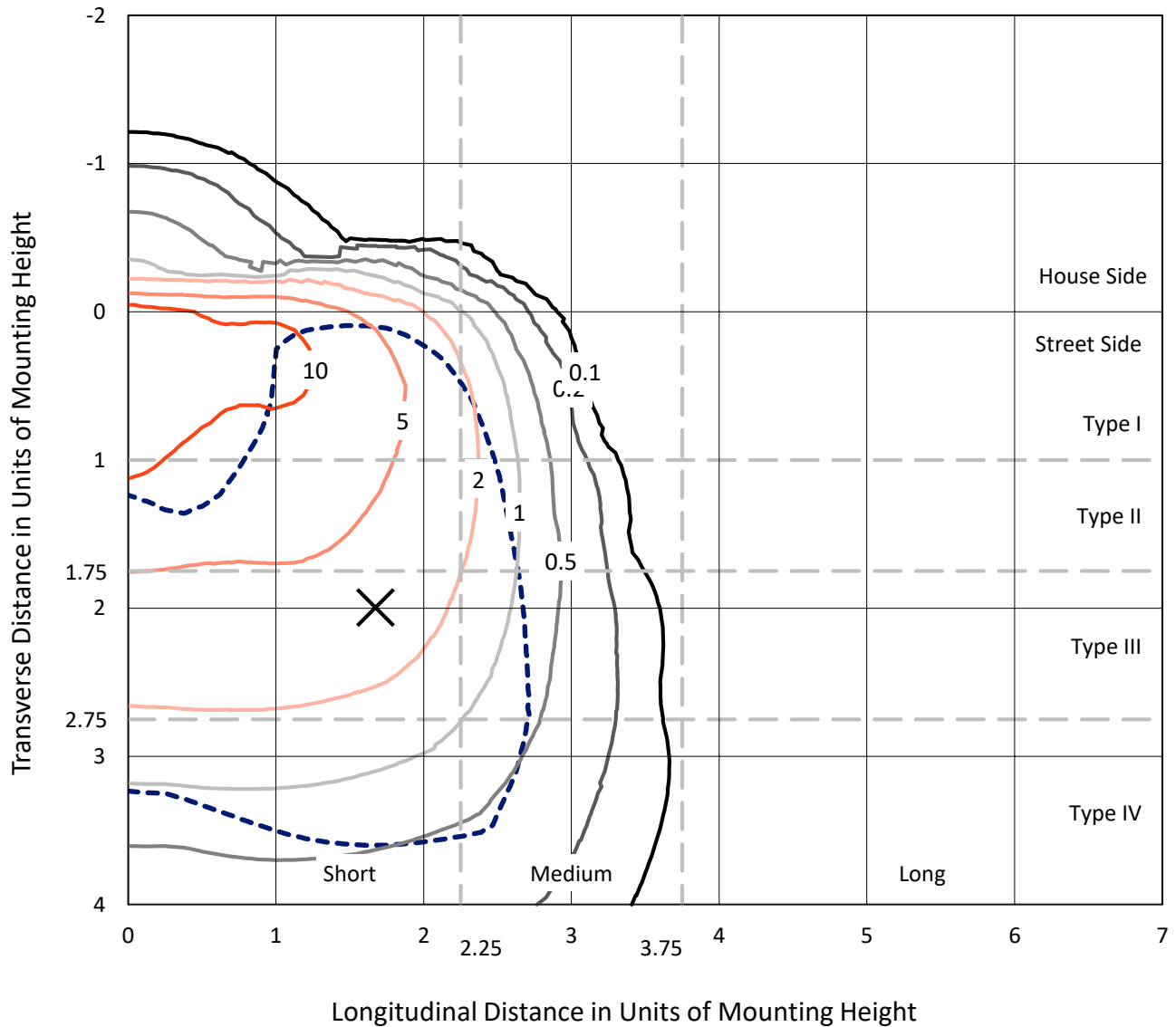
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

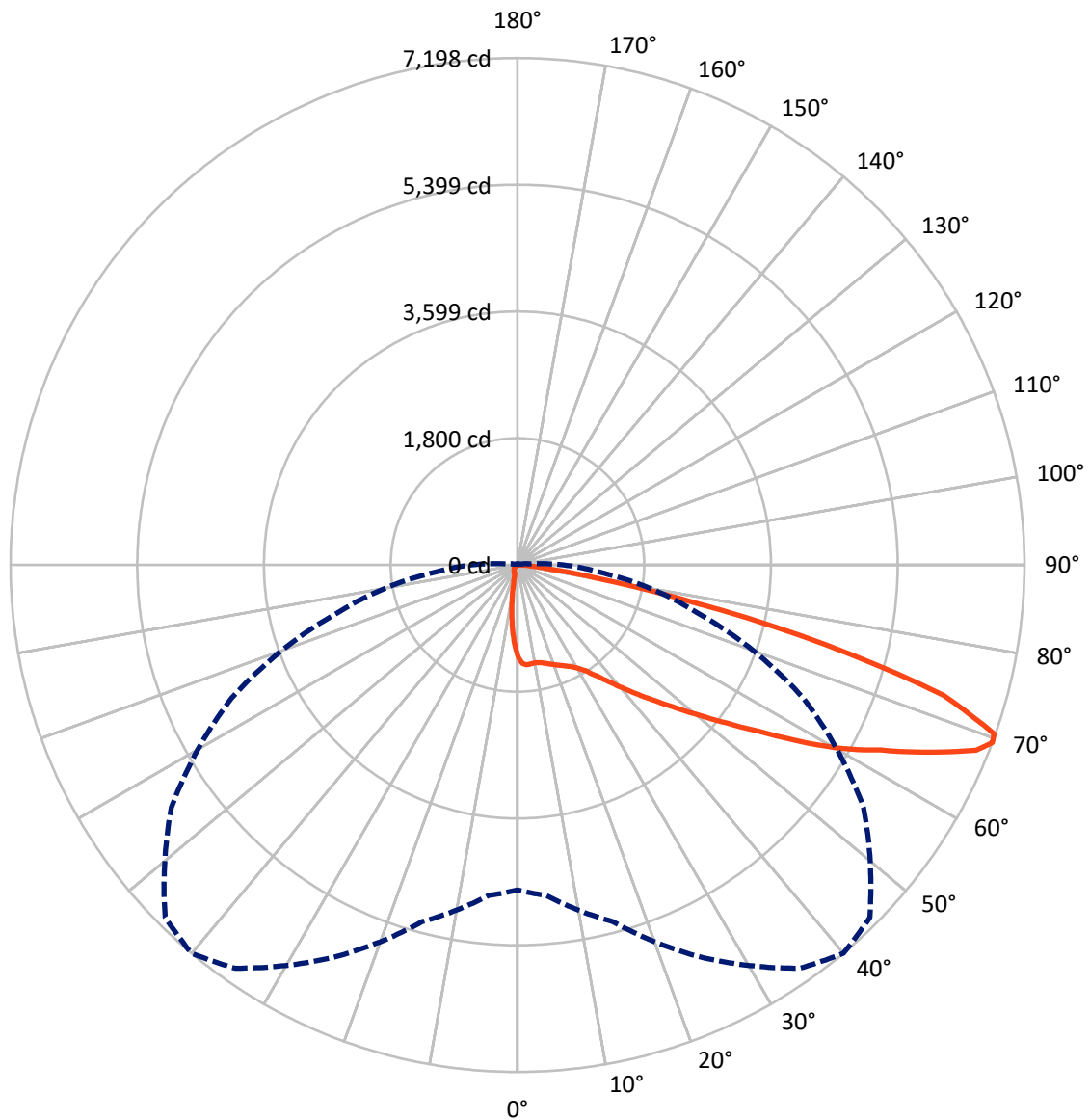


Based on 10 foot mounting height. Maximum calculated value = 14.3 fc
 Type IV - Short - Semi-Cutoff

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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	512.5	0.0	512.5
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	8247.2	0.0	8247.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	8759.7	0.0	8759.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	1.2
10°-20°	261.0	3.0
20°-30°	439.5	5.0
30°-40°	719.5	8.2
40°-50°	1245.9	14.2
50°-60°	1962.3	22.4
60°-70°	2562.7	29.3
70°-80°	1319.9	15.1
80°-90°	142.8	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°	8759.7	100.0
0°-180°	8759.7	100.0



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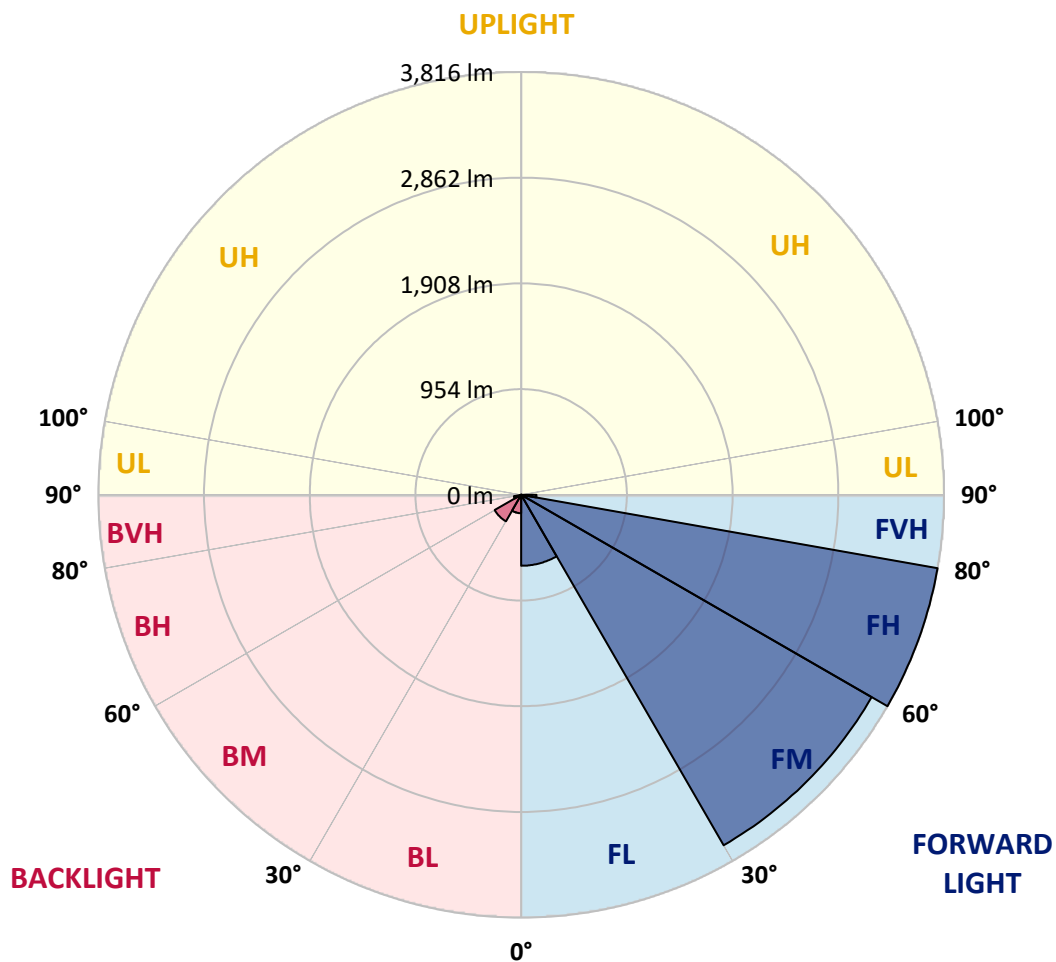
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	640.6	7.3			
FM	(30°-60°)	3652.3	41.7			
FH	(60°-80°)	3816.1	43.6			G2/5000
FVH	(80°-90°)	138.3	1.6			G2/225
BL	(0°-30°)	166.0	1.9	B1/500		
BM	(30°-60°)	275.5	3.1	B1/1000		
BH	(60°-80°)	66.6	0.8	B0/110		G0/110
BVH	(80°-90°)	4.5	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°	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7
2.5°	1437.0	1429.3	1424.5	1418.2	1410.3	1403.6	1401.0	1381.8	1363.4	1338.5	1309.8
5°	1463.6	1461.1	1452.6	1444.4	1435.0	1424.5	1418.8	1395.8	1369.7	1333.3	1283.1
7.5°	1466.3	1463.1	1452.6	1441.2	1428.1	1415.5	1405.8	1382.9	1358.7	1321.8	1260.9
10°	1462.0	1458.4	1450.6	1438.0	1421.8	1409.9	1400.0	1378.1	1357.8	1324.5	1256.5
12.5°	1457.3	1453.6	1450.0	1443.8	1429.7	1421.4	1413.0	1392.2	1373.9	1345.8	1271.7
15°	1462.0	1459.9	1464.1	1461.5	1453.6	1446.5	1438.0	1419.3	1402.7	1379.2	1299.4
17.5°	1481.8	1481.8	1494.9	1496.4	1489.2	1478.7	1466.8	1448.0	1433.9	1414.1	1332.1
20°	1528.2	1526.7	1543.4	1546.5	1528.7	1512.7	1494.9	1472.0	1461.1	1448.4	1364.5
22.5°	1608.1	1600.7	1610.7	1607.4	1572.7	1547.6	1525.6	1497.6	1491.7	1486.1	1400.5
25°	1711.8	1707.6	1714.4	1683.7	1622.1	1588.3	1562.2	1530.4	1530.4	1536.1	1441.2
27.5°	1862.5	1846.8	1823.9	1769.8	1677.3	1634.0	1606.0	1572.0	1580.9	1602.2	1494.9
30°	2016.9	1999.5	1946.9	1863.5	1744.7	1699.2	1666.4	1631.1	1651.9	1690.9	1566.9
32.5°	2169.0	2149.7	2075.3	1970.0	1841.0	1795.7	1763.9	1724.8	1759.8	1825.4	1672.1
35°	2316.5	2299.4	2213.5	2089.3	1969.4	1931.8	1902.6	1868.7	1913.6	2005.3	1820.8
37.5°	2482.5	2463.7	2358.9	2224.4	2125.3	2098.3	2076.8	2042.8	2121.1	2255.6	2027.7
40°	2686.3	2654.5	2513.2	2379.3	2305.7	2292.7	2278.0	2273.4	2394.8	2581.0	2303.7
42.5°	2919.9	2867.7	2674.9	2542.5	2503.8	2513.2	2509.5	2530.4	2737.4	2985.5	2639.4
45°	3153.5	3086.2	2854.8	2716.6	2721.8	2754.7	2775.0	2858.3	3166.5	3449.8	3000.8
47.5°	3351.7	3285.5	3027.3	2904.8	2967.5	3032.0	3087.2	3245.2	3607.7	3906.4	3281.8
50°	3521.0	3458.6	3210.4	3111.8	3252.6	3356.8	3446.5	3680.6	4082.2	4254.3	3478.9
52.5°	3659.9	3618.2	3400.2	3349.1	3578.5	3731.2	3862.6	4143.2	4502.5	4536.8	3632.1
55°	3794.8	3765.2	3604.0	3631.0	3961.2	4169.3	4335.6	4633.7	4864.2	4772.4	3779.2
57.5°	3950.2	3923.1	3836.5	3988.8	4464.3	4726.2	4907.5	5068.6	5182.9	5013.4	3917.9
60°	4108.8	4093.0	4095.2	4386.2	5042.0	5293.4	5393.6	5435.3	5495.7	5240.3	3925.8
62.5°	4259.9	4289.6	4390.8	4828.3	5595.4	5788.1	5838.9	5879.9	5809.1	5276.1	3626.9
65°	4516.0	4564.5	4805.8	5420.2	6203.8	6410.2	6462.3	6321.2	5858.6	4811.1	2950.2
67.5°	4641.2	4729.8	5160.5	5971.8	6794.1	7023.5	7004.2	6349.8	5257.4	3668.7	1893.3
69°	4615.0	4709.5	5242.2	6140.6	6990.2	7198.1	7075.6	5998.8	4478.9	2657.6	1162.2
70°	4511.7	4607.1	5200.1	6134.4	7015.1	7179.9	6943.1	5565.5	3787.1	1943.4	726.9
72.5°	3767.8	3850.1	4616.6	5544.7	6462.3	6328.4	5808.5	3855.9	1845.3	529.2	163.8
75°	2319.2	2365.1	3312.5	4177.1	4880.9	4536.8	3869.9	1918.3	550.1	149.7	90.6
77.5°	1225.3	1246.2	1813.5	2462.2	3094.0	2560.1	1983.5	748.2	253.4	93.9	65.7
80°	724.3	739.8	976.5	1125.8	1339.1	1118.4	793.1	459.4	181.5	58.8	58.4
82.5°	414.5	424.4	708.0	625.7	527.7	450.5	394.7	435.4	109.0	39.6	60.5
85°	152.3	154.4	398.4	476.0	313.9	186.7	196.1	360.8	29.3	25.1	47.4
87.5°	71.0	69.3	205.0	291.5	183.6	118.3	152.8	79.3	11.5	16.2	13.0
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°	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7
2.5°	1293.1	1273.7	1238.9	1202.9	1166.4	1138.2	1110.7	1088.7	1081.4	1067.8	1069.0
5°	1253.5	1218.0	1145.0	1071.0	993.9	930.3	870.3	821.8	798.2	774.2	774.2
7.5°	1219.1	1167.4	1053.3	932.8	808.1	703.5	609.1	538.2	499.0	467.7	467.2
10°	1206.1	1136.1	976.5	804.1	630.4	487.5	375.4	303.4	266.4	242.5	241.5
12.5°	1211.8	1125.1	917.7	685.1	467.2	313.4	217.4	171.0	155.3	148.1	148.1
15°	1228.4	1122.2	858.8	568.8	330.0	196.1	144.4	132.0	130.9	130.9	130.9
17.5°	1248.7	1123.2	798.2	455.7	224.8	140.2	124.7	123.1	124.1	124.1	124.1
20°	1269.7	1123.6	733.0	350.9	158.6	122.0	117.3	116.8	117.9	117.9	118.3
22.5°	1295.1	1126.3	667.9	262.2	130.9	115.3	111.6	111.6	112.1	112.1	111.6
25°	1324.5	1131.4	600.2	194.6	119.5	110.5	107.3	106.9	107.3	106.9	106.4
27.5°	1360.9	1138.8	524.5	152.3	114.2	105.8	103.2	103.2	102.8	102.1	101.7
30°	1406.7	1147.1	439.5	129.4	109.0	101.7	99.1	98.5	98.1	96.9	96.9
32.5°	1476.6	1165.3	355.5	117.3	103.2	95.9	93.9	93.9	92.9	91.7	91.3
35°	1584.0	1201.4	280.5	110.0	96.9	89.7	87.0	87.0	86.1	85.5	85.0
37.5°	1732.7	1256.1	218.0	103.2	90.6	83.0	80.3	79.8	78.7	77.8	77.2
40°	1930.3	1323.8	171.5	96.9	84.5	76.1	74.0	73.0	71.0	69.3	69.3
42.5°	2178.5	1401.0	139.1	90.2	77.2	69.9	68.4	66.7	63.2	61.5	61.1
45°	2438.1	1470.3	117.9	82.4	69.9	63.6	62.6	59.9	55.2	53.7	53.7
47.5°	2625.3	1486.5	103.8	75.1	63.2	56.9	56.4	51.7	47.4	46.4	46.0
50°	2742.2	1454.7	92.3	67.8	56.9	50.6	49.0	43.3	40.7	39.6	39.0
52.5°	2820.9	1397.9	83.0	61.5	51.2	44.8	41.2	37.0	34.9	33.9	33.9
55°	2884.0	1317.6	73.5	55.8	46.4	40.2	34.9	31.8	29.7	28.7	28.7
57.5°	2901.6	1208.6	64.0	51.2	41.7	35.5	29.7	27.7	25.1	24.6	24.6
60°	2772.9	1012.1	56.9	45.4	37.5	30.7	26.1	23.4	20.9	20.3	19.9
62.5°	2433.5	783.1	50.0	40.2	32.9	26.6	22.4	19.4	17.2	17.2	17.2
65°	1856.3	525.1	43.7	34.9	28.7	22.4	19.4	15.6	14.6	14.6	15.1
67.5°	1111.2	285.8	37.5	29.7	24.6	18.8	16.2	13.6	13.0	13.6	13.6
69°	651.2	168.0	33.9	26.6	21.4	16.7	14.1	11.9	13.0	13.6	13.6
70°	402.0	113.1	31.4	24.0	19.4	15.1	13.0	11.5	12.5	13.0	13.0
72.5°	112.1	58.4	25.1	18.8	15.6	12.5	10.4	10.4	11.9	12.5	12.5
75°	73.0	43.3	19.4	14.1	11.9	9.9	8.9	9.9	11.5	11.9	11.9
77.5°	60.5	35.5	15.6	11.5	9.9	9.4	8.4	8.9	10.4	11.0	11.0
80°	55.2	25.1	12.5	10.4	8.9	8.4	7.8	7.2	9.4	9.9	9.9
82.5°	52.7	19.9	11.0	9.4	8.4	7.2	6.7	7.2	8.4	8.9	9.4
85°	32.9	13.0	9.9	8.9	7.2	6.7	6.7	6.7	7.8	8.4	8.4
87.5°	11.9	10.4	8.9	7.2	6.3	6.3	6.3	6.3	6.7	7.8	7.8
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)