

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: P200302

Luminaire Tested: **GPC-AF-02-LED-E1-SL4-7050-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200302  
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-SL4-7050-800-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 5000K, 800mA 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: 8146 lumens  
Efficiency: N/A  
Efficacy: 94.7 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): 86  
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

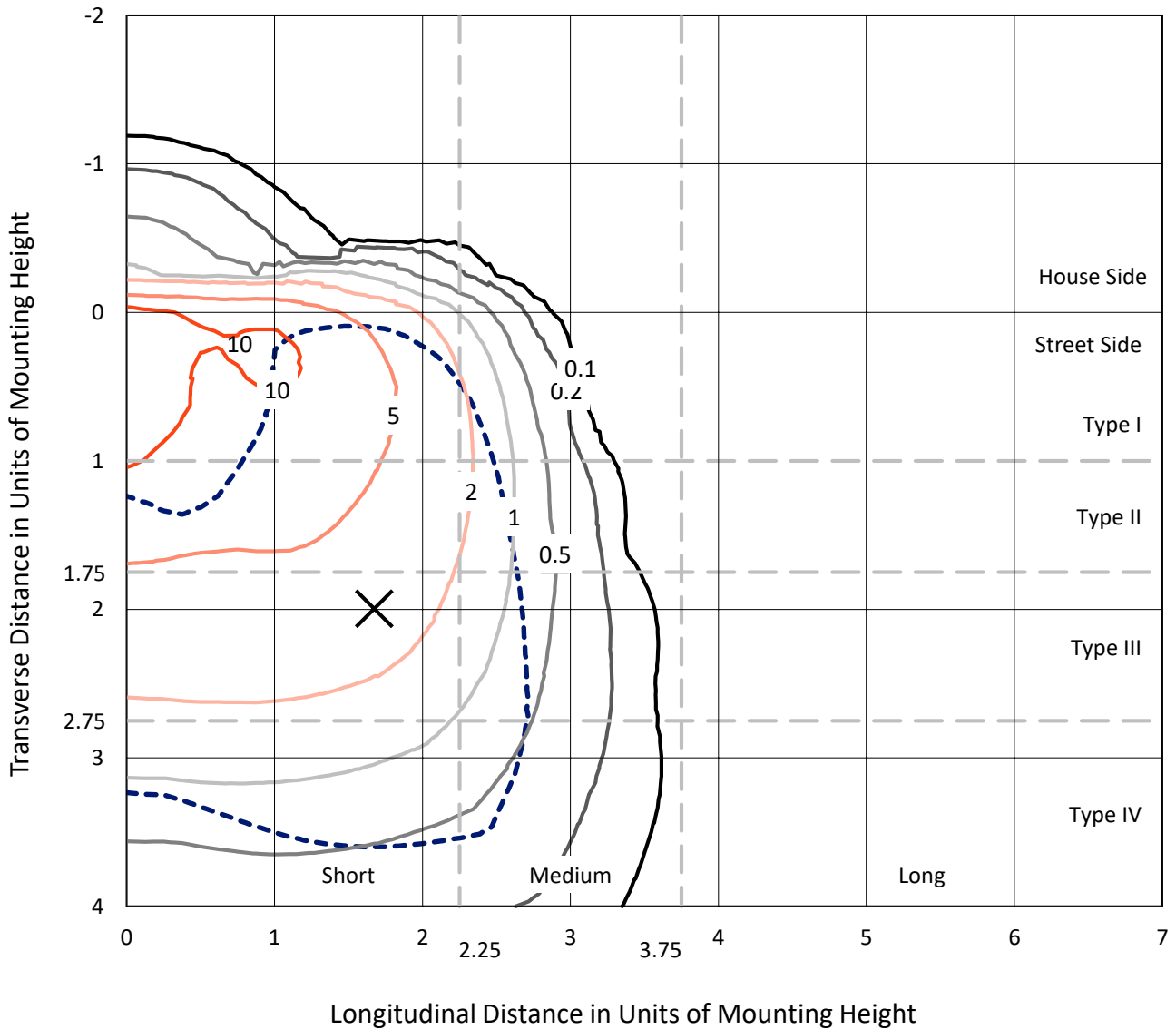


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

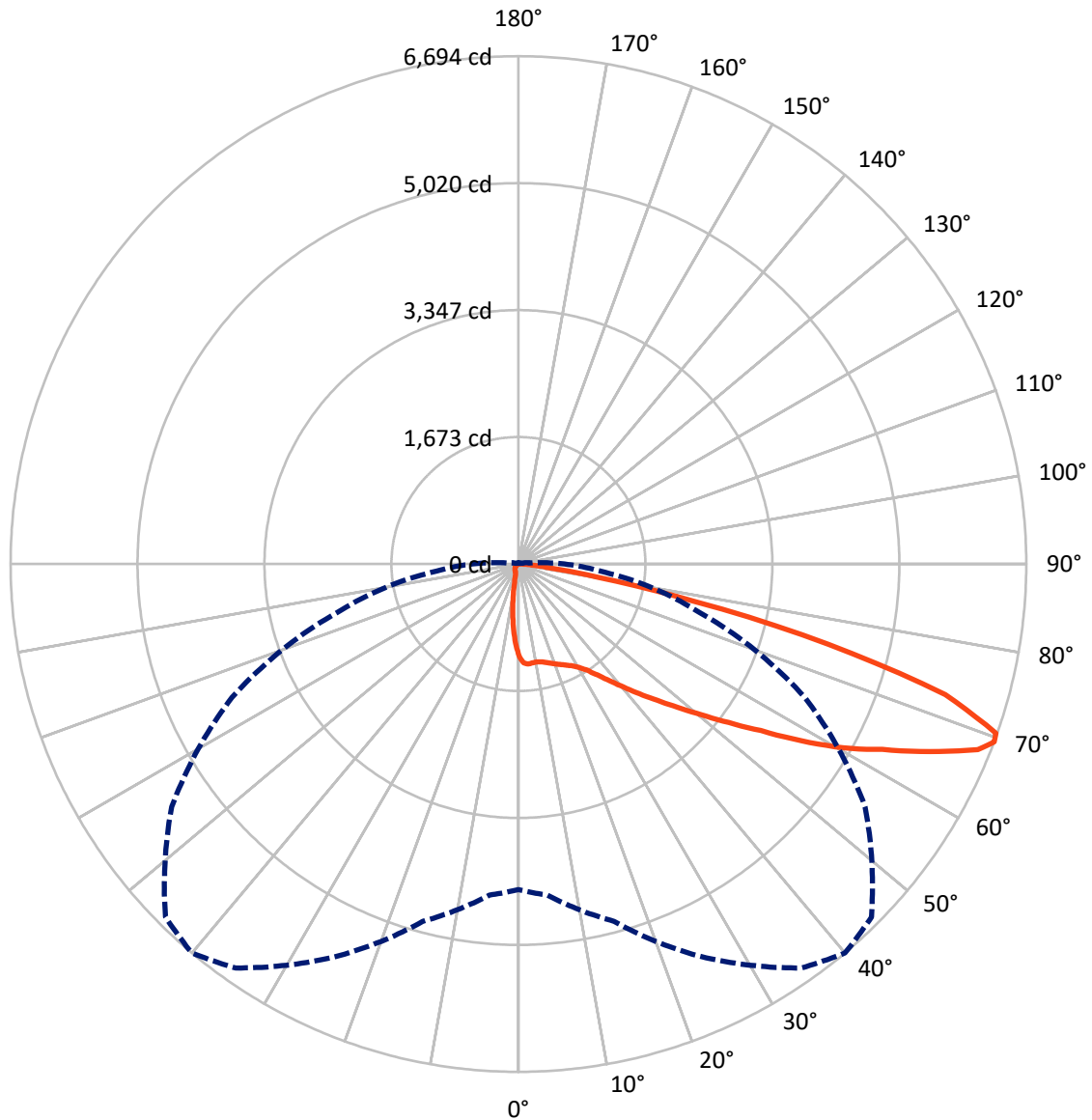


Based on 10 foot mounting height. Maximum calculated value = 13.3 fc  
 Type IV - Short - Semi-Cutoff

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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
<b>House Side</b>	Lumens	476.6	0.0	476.6
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	7669.4	0.0	7669.4
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	8146.0	0.0	8146.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.7	1.2
10°-20°	242.7	3.0
20°-30°	408.7	5.0
30°-40°	669.1	8.2
40°-50°	1158.6	14.2
50°-60°	1824.8	22.4
60°-70°	2383.2	29.3
70°-80°	1227.4	15.1
80°-90°	132.8	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°	8146.0	100.0
0°-180°	8146.0	100.0



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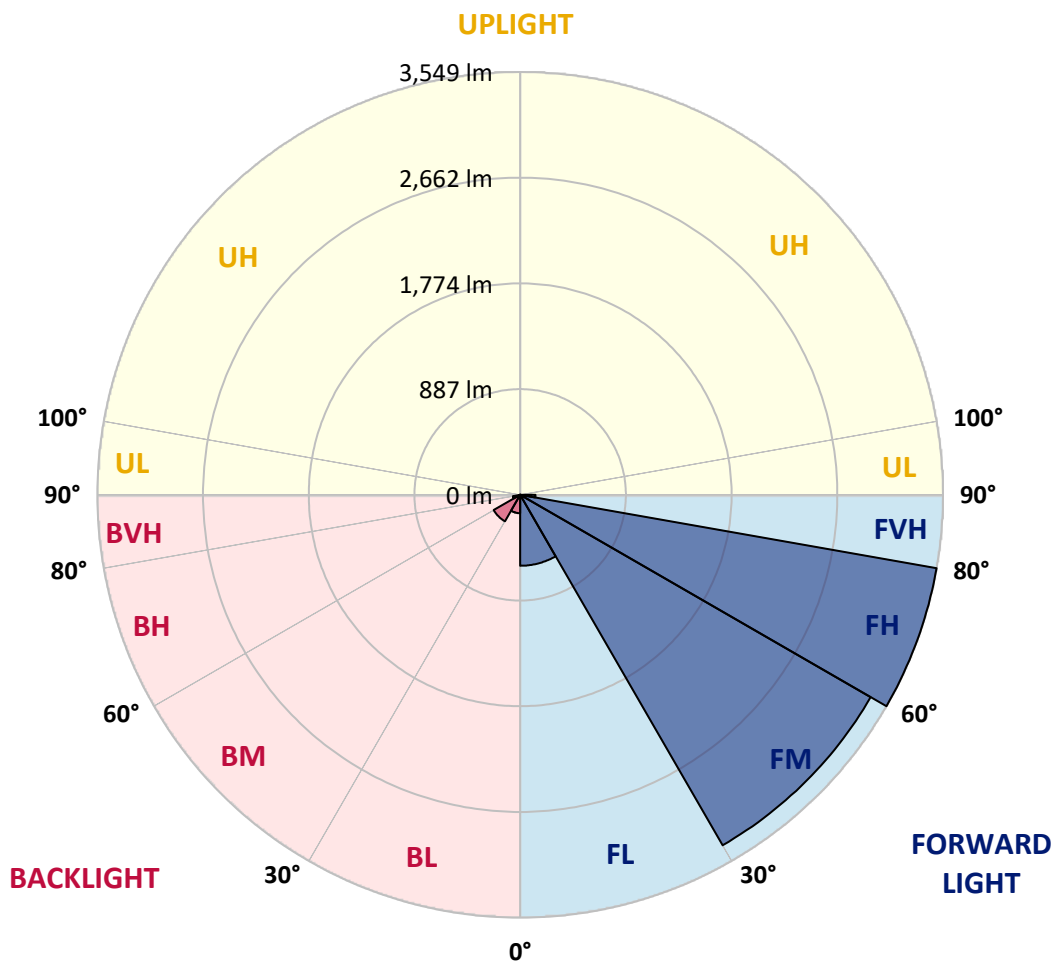
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	595.7	7.3			
FM	(30°-60°)	3396.4	41.7			
FH	(60°-80°)	3548.7	43.6			G2/5000
FVH	(80°-90°)	128.6	1.6			G2/225
BL	(0°-30°)	154.4	1.9	B1/500		
BM	(30°-60°)	256.2	3.1	B1/1000		
BH	(60°-80°)	61.9	0.8	B0/110		G0/110
BVH	(80°-90°)	4.2	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°	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1
2.5°	1336.3	1329.1	1324.7	1318.9	1311.6	1305.3	1302.9	1284.9	1268.0	1244.7	1218.0
5°	1361.1	1358.6	1350.9	1343.1	1334.4	1324.7	1319.4	1298.0	1273.8	1239.8	1193.3
7.5°	1363.5	1360.6	1350.9	1340.2	1328.1	1316.5	1307.2	1285.9	1263.6	1229.2	1172.4
10°	1359.6	1356.2	1348.9	1337.3	1322.3	1311.1	1301.9	1281.5	1262.6	1231.6	1168.6
12.5°	1355.2	1351.9	1348.5	1342.6	1329.5	1321.8	1314.0	1294.6	1277.7	1251.5	1182.6
15°	1359.6	1357.7	1361.5	1359.1	1351.9	1345.1	1337.3	1319.8	1304.3	1282.5	1208.3
17.5°	1378.0	1378.0	1390.2	1391.6	1384.8	1375.1	1364.0	1346.5	1333.4	1315.0	1238.9
20°	1421.2	1419.7	1435.3	1438.2	1421.7	1406.6	1390.2	1368.8	1358.6	1347.0	1268.9
22.5°	1495.4	1488.6	1497.8	1494.9	1462.4	1439.1	1418.8	1392.6	1387.2	1381.9	1302.4
25°	1591.9	1588.0	1594.3	1565.7	1508.5	1477.0	1452.7	1423.1	1423.1	1428.5	1340.2
27.5°	1732.0	1717.5	1696.1	1645.7	1559.9	1519.6	1493.4	1461.9	1470.2	1490.0	1390.2
30°	1875.5	1859.5	1810.6	1733.0	1622.4	1580.2	1549.7	1516.7	1536.1	1572.5	1457.1
32.5°	2017.1	1999.2	1929.8	1831.9	1712.1	1669.9	1640.4	1604.0	1636.5	1697.6	1555.0
35°	2154.3	2138.3	2058.3	1942.9	1831.4	1796.5	1769.3	1737.8	1779.5	1864.9	1693.2
37.5°	2308.5	2291.1	2193.6	2068.5	1976.4	1951.2	1931.3	1899.8	1972.5	2097.6	1885.7
40°	2498.1	2468.5	2337.1	2212.5	2144.1	2132.0	2118.5	2114.1	2227.1	2400.2	2142.2
42.5°	2715.3	2666.9	2487.4	2364.3	2328.4	2337.1	2333.7	2353.1	2545.6	2776.4	2454.5
45°	2932.6	2870.0	2654.7	2526.2	2531.1	2561.6	2580.5	2658.1	2944.7	3208.0	2790.5
47.5°	3116.8	3055.2	2815.2	2701.3	2759.5	2819.6	2871.0	3017.9	3354.9	3632.7	3051.8
50°	3274.4	3216.2	2985.4	2893.8	3024.7	3121.7	3205.1	3422.8	3796.1	3956.2	3235.1
52.5°	3403.4	3364.6	3161.9	3114.4	3327.7	3469.8	3592.0	3852.9	4187.0	4219.0	3377.7
55°	3529.0	3501.3	3351.5	3376.7	3683.6	3877.1	4031.8	4309.1	4523.5	4438.1	3514.4
57.5°	3673.5	3648.3	3567.8	3709.3	4151.6	4395.0	4563.7	4713.5	4819.7	4662.1	3643.4
60°	3820.9	3806.3	3808.3	4078.8	4688.8	4922.5	5015.6	5054.4	5110.7	4873.1	3650.7
62.5°	3961.5	3989.1	4083.2	4490.0	5203.3	5382.7	5429.7	5468.0	5402.1	4906.5	3372.8
65°	4199.6	4244.7	4469.2	5040.4	5769.1	5961.1	6009.6	5878.2	5448.1	4474.0	2743.5
67.5°	4315.9	4398.4	4798.9	5553.4	6318.0	6531.4	6513.4	5904.9	4889.1	3411.6	1760.6
69°	4291.7	4379.5	4875.0	5710.5	6500.3	6693.8	6579.9	5578.6	4165.1	2471.4	1080.8
70°	4195.7	4284.4	4835.7	5704.6	6523.6	6676.8	6456.7	5175.6	3521.7	1807.2	675.9
72.5°	3503.8	3580.4	4293.1	5156.2	6009.6	5885.0	5401.6	3585.7	1716.0	492.2	152.3
75°	2156.8	2199.4	3080.5	3884.4	4539.0	4219.0	3598.8	1783.9	511.6	139.2	84.4
77.5°	1139.5	1158.9	1686.4	2289.6	2877.3	2380.8	1844.5	695.8	235.7	87.3	61.1
80°	673.5	688.0	908.2	1046.9	1245.2	1040.1	737.5	427.2	168.7	54.8	54.3
82.5°	385.5	394.7	658.5	581.9	490.7	418.9	367.1	404.9	101.3	36.9	56.2
85°	141.6	143.5	370.4	442.7	291.9	173.6	182.3	335.5	27.2	23.3	44.1
87.5°	65.9	64.5	190.6	271.0	170.7	110.1	142.1	73.7	10.7	15.0	12.1
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°	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1	1217.1
2.5°	1202.5	1184.6	1152.1	1118.6	1084.7	1058.5	1032.8	1012.4	1005.6	993.0	994.0
5°	1165.7	1132.7	1064.8	995.9	924.2	865.0	809.3	764.2	742.4	720.1	720.1
7.5°	1133.7	1085.7	979.5	867.5	751.6	654.1	566.3	500.4	464.0	434.9	434.5
10°	1121.5	1056.6	908.2	747.7	586.2	453.4	349.1	282.2	247.8	225.5	224.5
12.5°	1126.9	1046.4	853.4	637.1	434.5	291.4	202.2	159.0	144.5	137.7	137.7
15°	1142.4	1043.5	798.6	529.0	306.9	182.3	134.3	122.7	121.7	121.7	121.7
17.5°	1161.3	1044.4	742.4	423.8	209.0	130.4	115.9	114.4	115.4	115.4	115.4
20°	1180.7	1044.9	681.7	326.3	147.4	113.5	109.1	108.6	109.6	109.6	110.1
22.5°	1204.4	1047.3	621.1	243.9	121.7	107.2	103.8	103.8	104.2	104.2	103.8
25°	1231.6	1052.2	558.1	180.9	111.0	102.8	99.9	99.4	99.9	99.4	98.9
27.5°	1265.5	1059.0	487.8	141.6	106.2	98.4	96.0	96.0	95.5	95.0	94.6
30°	1308.2	1066.7	408.8	120.3	101.3	94.6	92.1	91.6	91.2	90.2	90.2
32.5°	1373.2	1083.7	330.7	109.1	96.0	89.2	87.3	87.3	86.3	85.3	84.9
35°	1473.1	1117.2	260.9	102.3	90.2	83.4	81.0	81.0	80.0	79.5	79.0
37.5°	1611.3	1168.1	202.7	96.0	84.4	77.1	74.7	74.2	73.2	72.2	71.8
40°	1795.0	1231.1	159.5	90.2	78.6	70.8	68.9	67.9	65.9	64.5	64.5
42.5°	2025.8	1302.9	129.5	83.9	71.8	65.0	63.5	62.1	58.7	57.2	56.7
45°	2267.3	1367.4	109.6	76.6	65.0	59.2	58.2	55.8	51.4	49.9	49.9
47.5°	2441.4	1382.4	96.5	69.8	58.7	52.9	52.4	48.0	44.1	43.2	42.7
50°	2550.0	1352.8	85.8	63.0	52.9	47.0	45.6	40.2	37.8	36.9	36.4
52.5°	2623.2	1300.0	77.1	57.2	47.5	41.7	38.3	34.4	32.5	31.5	31.5
55°	2681.9	1225.3	68.4	51.9	43.2	37.3	32.5	29.6	27.6	26.7	26.7
57.5°	2698.4	1124.0	59.6	47.5	38.8	33.0	27.6	25.7	23.3	22.8	22.8
60°	2578.6	941.2	52.9	42.2	34.9	28.6	24.2	21.8	19.4	18.9	18.4
62.5°	2262.9	728.3	46.5	37.3	30.5	24.7	20.8	17.9	16.0	16.0	16.0
65°	1726.2	488.3	40.7	32.5	26.7	20.8	17.9	14.5	13.6	13.6	14.1
67.5°	1033.3	265.7	34.9	27.6	22.8	17.5	15.0	12.6	12.1	12.6	12.6
69°	605.6	156.1	31.5	24.7	19.9	15.5	13.1	11.2	12.1	12.6	12.6
70°	373.8	105.2	29.1	22.3	17.9	14.1	12.1	10.7	11.6	12.1	12.1
72.5°	104.2	54.3	23.3	17.5	14.5	11.6	9.7	9.7	11.2	11.6	11.6
75°	67.9	40.2	17.9	13.1	11.2	9.2	8.2	9.2	10.7	11.2	11.2
77.5°	56.2	33.0	14.5	10.7	9.2	8.7	7.8	8.2	9.7	10.2	10.2
80°	51.4	23.3	11.6	9.7	8.2	7.8	7.3	6.8	8.7	9.2	9.2
82.5°	49.0	18.4	10.2	8.7	7.8	6.8	6.3	6.8	7.8	8.2	8.7
85°	30.5	12.1	9.2	8.2	6.8	6.3	6.3	6.3	7.3	7.8	7.8
87.5°	11.2	9.7	8.2	6.8	5.8	5.8	5.8	5.8	6.3	7.3	7.3
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)