

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: P200624

Luminaire Tested: **GPC-AF-02-LED-E1-SL4-8030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200624  
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-SL4-8030-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 80 CRI, 3000K, 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: 8227 lumens  
Efficiency: N/A  
Efficacy: 72.8 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

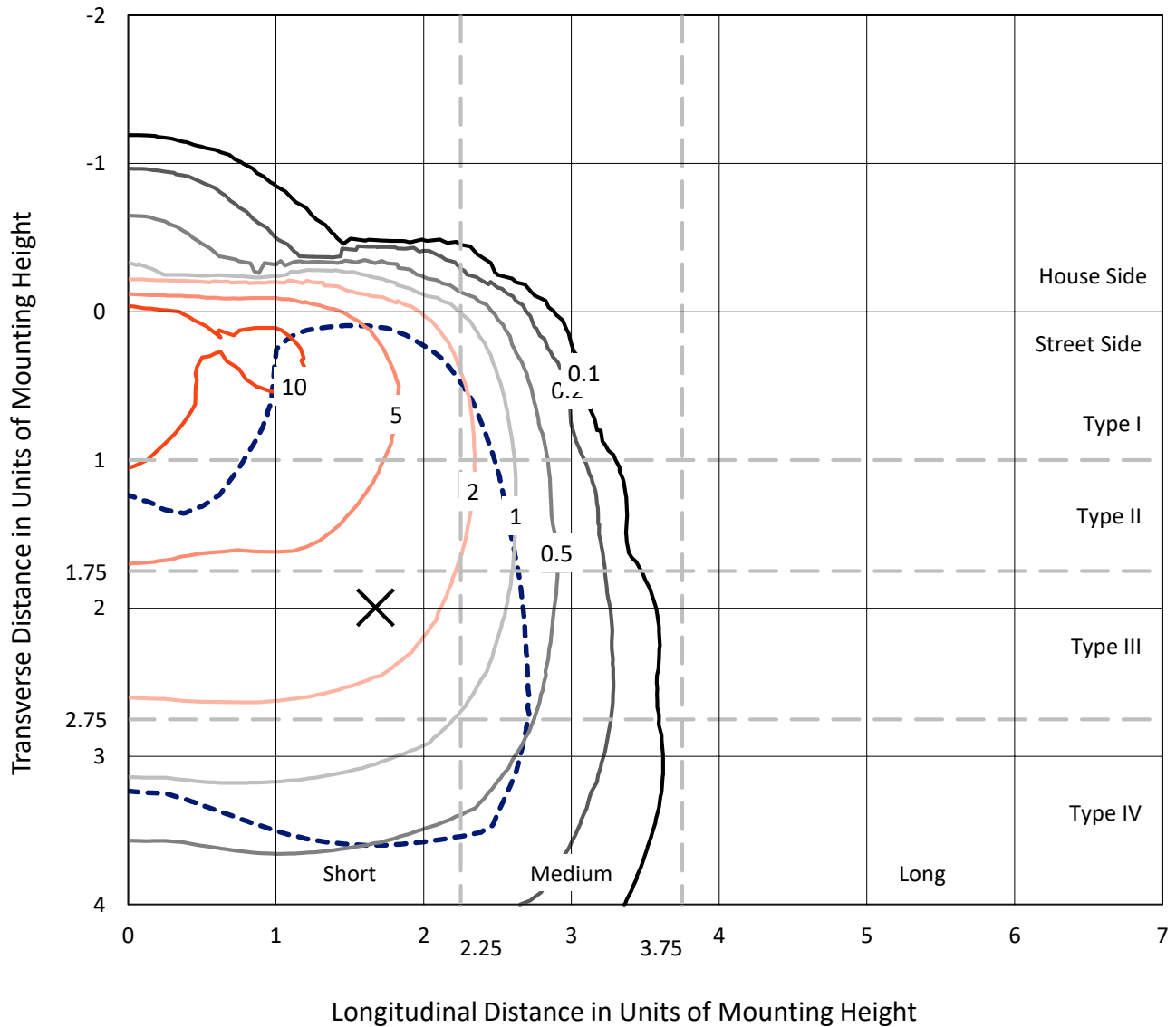


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

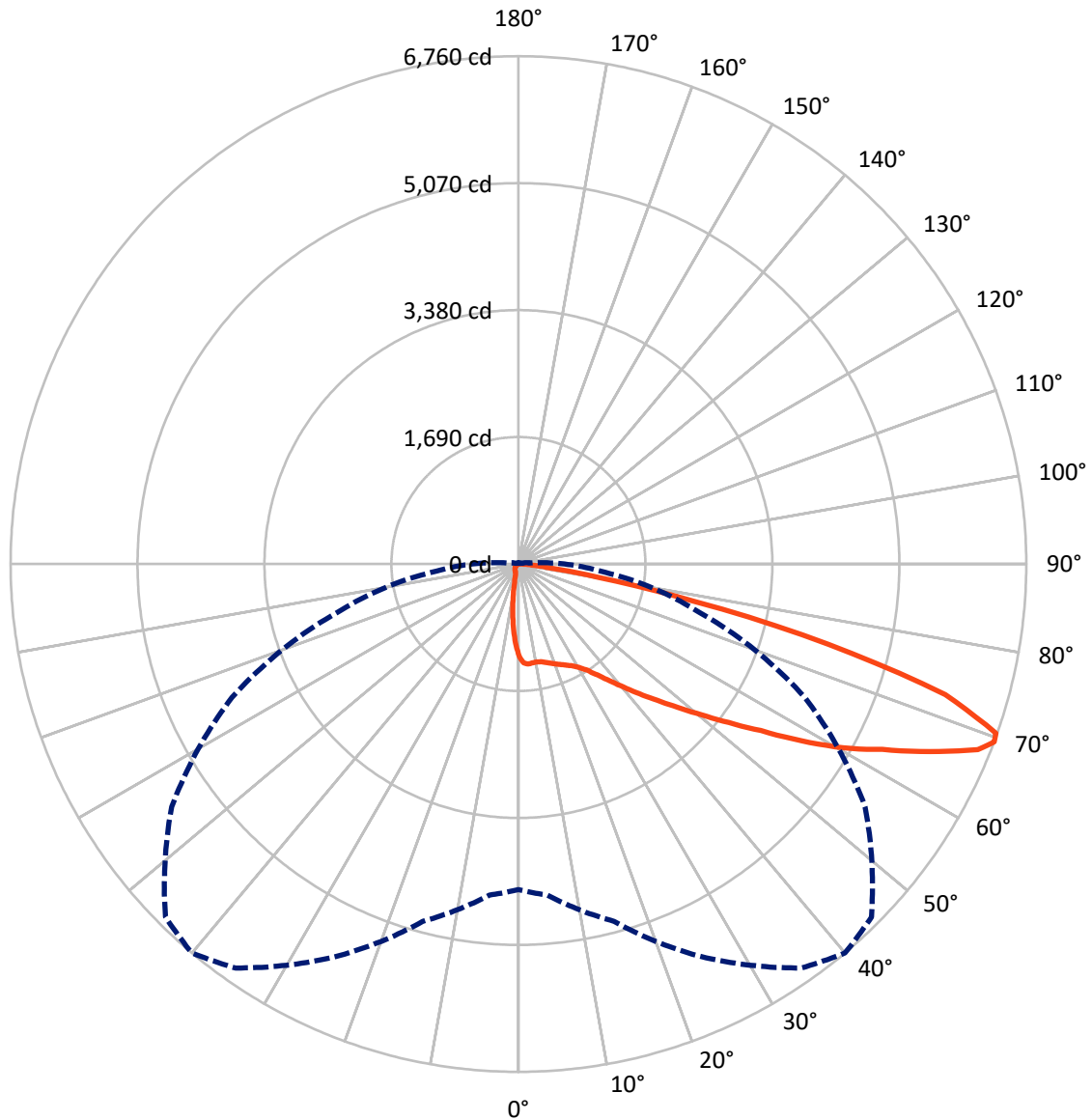


Based on 10 foot mounting height. Maximum calculated value = 13.4 fc  
 Type IV - Short - Semi-Cutoff

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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
<b>House Side</b>	Lumens	481.3	0.0	481.3
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	7745.7	0.0	7745.7
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	8227.0	0.0	8227.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.7	1.2
10°-20°	245.1	3.0
20°-30°	412.8	5.0
30°-40°	675.8	8.2
40°-50°	1170.1	14.2
50°-60°	1843.0	22.4
60°-70°	2406.9	29.3
70°-80°	1239.6	15.1
80°-90°	134.1	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°	8227.0	100.0
0°-180°	8227.0	100.0



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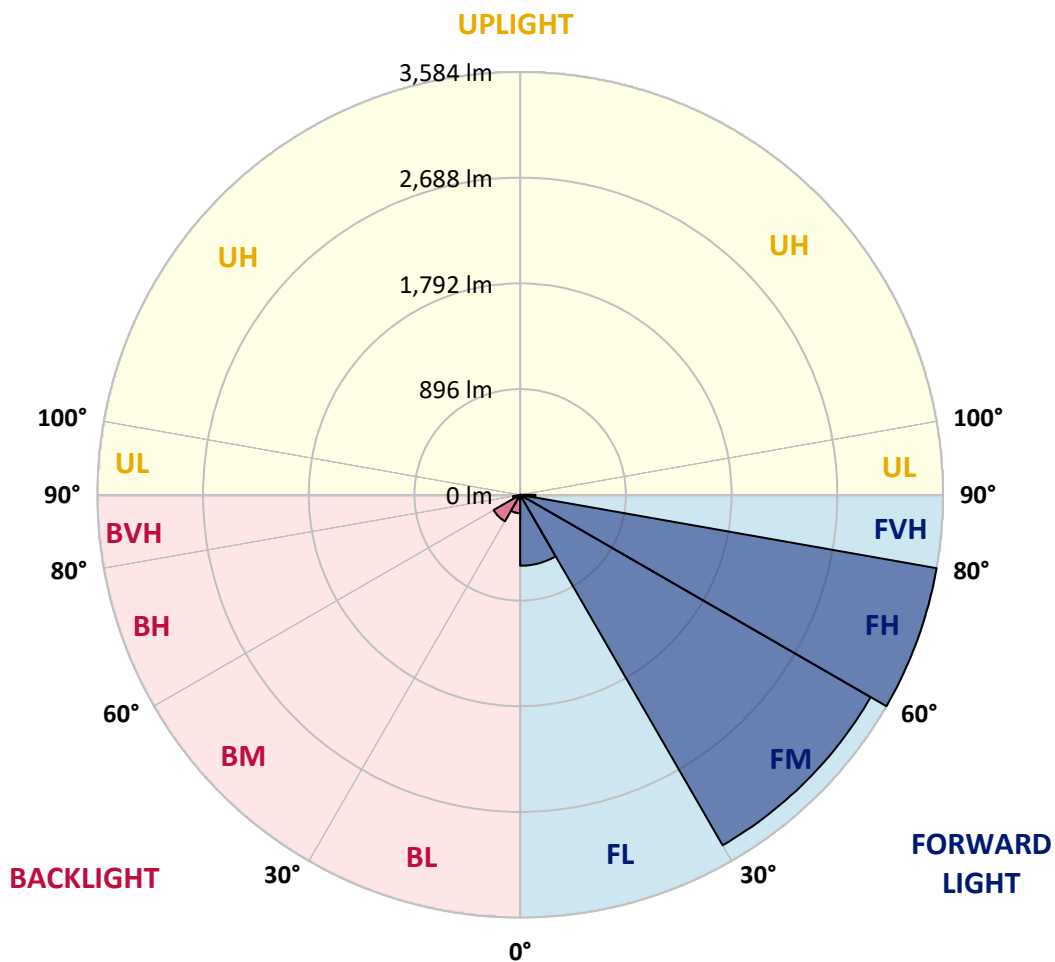
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	601.6	7.3			
FM	(30°-60°)	3430.1	41.7			
FH	(60°-80°)	3584.0	43.6			G2/5000
FVH	(80°-90°)	129.9	1.6			G2/225
BL	(0°-30°)	155.9	1.9	B1/500		
BM	(30°-60°)	258.7	3.1	B1/1000		
BH	(60°-80°)	62.5	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°	1229.2	1229.2	1229.2	1229.2	1229.2	1229.2	1229.2	1229.2	1229.2	1229.2	1229.2
2.5°	1349.6	1342.3	1337.9	1332.0	1324.6	1318.3	1315.8	1297.7	1280.6	1257.1	1230.1
5°	1374.6	1372.1	1364.3	1356.5	1347.7	1337.9	1332.5	1310.9	1286.5	1252.2	1205.2
7.5°	1377.0	1374.1	1364.3	1353.5	1341.3	1329.5	1320.2	1298.7	1276.2	1241.4	1184.1
10°	1373.1	1369.7	1362.4	1350.6	1335.4	1324.2	1314.9	1294.3	1275.2	1243.8	1180.2
12.5°	1368.7	1365.3	1361.9	1356.0	1342.8	1334.9	1327.1	1307.5	1290.4	1263.9	1194.4
15°	1373.1	1371.2	1375.1	1372.6	1365.3	1358.4	1350.6	1333.0	1317.3	1295.3	1220.3
17.5°	1391.7	1391.7	1404.0	1405.4	1398.6	1388.8	1377.5	1359.9	1346.7	1328.1	1251.2
20°	1435.3	1433.9	1449.5	1452.5	1435.8	1420.6	1404.0	1382.4	1372.1	1360.4	1281.6
22.5°	1510.2	1503.4	1512.7	1509.8	1476.9	1453.4	1432.9	1406.4	1401.0	1395.7	1315.3
25°	1607.7	1603.8	1610.1	1581.3	1523.5	1491.6	1467.2	1437.3	1437.3	1442.7	1353.5
27.5°	1749.2	1734.5	1713.0	1662.1	1575.4	1534.7	1508.3	1476.5	1484.8	1504.9	1404.0
30°	1894.2	1878.0	1828.6	1750.2	1638.5	1595.9	1565.1	1531.8	1551.4	1588.1	1471.6
32.5°	2037.2	2019.0	1949.0	1850.1	1729.1	1686.5	1656.7	1619.9	1652.7	1714.5	1570.5
35°	2175.8	2159.6	2078.8	1962.2	1849.6	1814.4	1786.9	1755.1	1797.2	1883.4	1710.0
37.5°	2331.5	2313.8	2215.4	2089.1	1996.0	1970.6	1950.5	1918.7	1992.1	2118.5	1904.5
40°	2523.0	2493.1	2360.4	2234.5	2165.5	2153.2	2139.5	2135.1	2249.2	2424.0	2163.5
42.5°	2742.3	2693.4	2512.2	2387.8	2351.6	2360.4	2356.9	2376.5	2570.9	2804.0	2478.9
45°	2961.7	2898.6	2681.1	2551.4	2556.3	2587.1	2606.2	2684.6	2974.0	3239.9	2818.2
47.5°	3147.8	3085.6	2843.2	2728.1	2786.9	2847.6	2899.5	3047.9	3388.3	3668.9	3082.2
50°	3307.0	3248.2	3015.1	2922.6	3054.8	3152.7	3236.9	3456.8	3833.9	3995.5	3267.3
52.5°	3437.2	3398.1	3193.4	3145.4	3360.8	3504.3	3627.7	3891.2	4228.6	4260.9	3411.3
55°	3564.1	3536.1	3384.8	3410.3	3720.3	3915.7	4071.9	4352.0	4568.4	4482.3	3549.4
57.5°	3710.0	3684.5	3603.2	3746.2	4192.8	4438.7	4609.1	4760.4	4867.7	4708.5	3679.6
60°	3858.9	3844.2	3846.1	4119.4	4735.4	4971.5	5065.5	5104.7	5161.5	4921.5	3687.0
62.5°	4000.9	4028.8	4123.8	4534.7	5255.0	5436.2	5483.7	5522.4	5455.8	4955.3	3406.4
65°	4241.3	4286.9	4513.6	5090.5	5826.5	6020.4	6069.4	5936.7	5502.3	4518.5	2770.7
67.5°	4358.9	4442.1	4846.6	5608.6	6380.8	6596.3	6578.2	5963.6	4937.7	3445.6	1778.1
69°	4334.4	4423.0	4923.5	5767.2	6565.0	6760.4	6645.3	5634.0	4206.6	2496.0	1091.5
70°	4237.4	4327.0	4883.8	5761.4	6588.5	6743.2	6520.9	5227.1	3556.7	1825.1	682.6
72.5°	3538.6	3616.0	4335.8	5207.5	6069.4	5943.5	5455.3	3621.4	1733.1	497.0	153.8
75°	2178.2	2221.3	3111.1	3923.0	4584.1	4260.9	3634.6	1801.6	516.6	140.5	85.2
77.5°	1150.8	1170.4	1703.2	2312.4	2905.9	2404.4	1862.8	702.7	238.0	88.1	61.7
80°	680.2	694.9	917.2	1057.3	1257.6	1050.4	744.8	431.4	170.4	55.3	54.8
82.5°	389.3	398.6	665.0	587.6	495.6	423.1	370.7	408.9	102.3	37.2	56.8
85°	143.0	145.0	374.1	447.1	294.8	175.3	184.1	338.9	27.4	23.5	44.6
87.5°	66.6	65.1	192.5	273.7	172.4	111.2	143.5	74.4	10.8	15.2	12.2
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°	1229.2	1229.2	1229.2	1229.2	1229.2	1229.2	1229.2	1229.2	1229.2	1229.2	1229.2
2.5°	1214.5	1196.3	1163.5	1129.7	1095.5	1069.0	1043.1	1022.5	1015.6	1002.9	1003.9
5°	1177.2	1143.9	1075.4	1005.9	933.4	873.6	817.3	771.8	749.7	727.2	727.2
7.5°	1144.9	1096.4	989.2	876.1	759.0	660.6	572.0	505.4	468.6	439.3	438.8
10°	1132.7	1067.1	917.2	755.1	592.1	457.9	352.6	285.0	250.2	227.7	226.7
12.5°	1138.1	1056.8	861.9	643.5	438.8	294.3	204.2	160.6	145.9	139.1	139.1
15°	1153.7	1053.8	806.5	534.3	310.0	184.1	135.6	123.9	122.9	122.9	122.9
17.5°	1172.8	1054.8	749.7	428.0	211.1	131.7	117.0	115.6	116.5	116.5	116.5
20°	1192.4	1055.3	688.5	329.6	148.9	114.6	110.2	109.7	110.7	110.7	111.2
22.5°	1216.4	1057.8	627.3	246.3	122.9	108.2	104.8	104.8	105.3	105.3	104.8
25°	1243.8	1062.7	563.6	182.7	112.1	103.8	100.9	100.4	100.9	100.4	99.9
27.5°	1278.1	1069.5	492.6	143.0	107.2	99.4	97.0	97.0	96.5	96.0	95.5
30°	1321.2	1077.3	412.8	121.4	102.3	95.5	93.0	92.6	92.1	91.1	91.1
32.5°	1386.8	1094.5	334.0	110.2	97.0	90.1	88.1	88.1	87.2	86.2	85.7
35°	1487.7	1128.3	263.5	103.3	91.1	84.2	81.8	81.8	80.8	80.3	79.8
37.5°	1627.3	1179.7	204.7	97.0	85.2	77.9	75.4	74.9	73.9	73.0	72.5
40°	1812.9	1243.4	161.1	91.1	79.3	71.5	69.5	68.6	66.6	65.1	65.1
42.5°	2046.0	1315.8	130.8	84.7	72.5	65.6	64.2	62.7	59.3	57.8	57.3
45°	2289.9	1381.0	110.7	77.4	65.6	59.7	58.8	56.3	51.9	50.4	50.4
47.5°	2465.7	1396.1	97.5	70.5	59.3	53.4	52.9	48.5	44.6	43.6	43.1
50°	2575.4	1366.3	86.7	63.7	53.4	47.5	46.0	40.6	38.2	37.2	36.7
52.5°	2649.3	1312.9	77.9	57.8	48.0	42.1	38.7	34.8	32.8	31.8	31.8
55°	2708.6	1237.5	69.0	52.4	43.6	37.7	32.8	29.9	27.9	26.9	26.9
57.5°	2725.2	1135.1	60.2	48.0	39.2	33.3	27.9	26.0	23.5	23.0	23.0
60°	2604.2	950.5	53.4	42.6	35.3	28.9	24.5	22.0	19.6	19.1	18.6
62.5°	2285.4	735.5	47.0	37.7	30.9	25.0	21.1	18.1	16.2	16.2	16.2
65°	1743.3	493.1	41.1	32.8	26.9	21.1	18.1	14.7	13.7	13.7	14.2
67.5°	1043.6	268.4	35.3	27.9	23.0	17.6	15.2	12.7	12.2	12.7	12.7
69°	611.6	157.7	31.8	25.0	20.1	15.7	13.2	11.3	12.2	12.7	12.7
70°	377.6	106.3	29.4	22.5	18.1	14.2	12.2	10.8	11.8	12.2	12.2
72.5°	105.3	54.8	23.5	17.6	14.7	11.8	9.8	9.8	11.3	11.8	11.8
75°	68.6	40.6	18.1	13.2	11.3	9.3	8.3	9.3	10.8	11.3	11.3
77.5°	56.8	33.3	14.7	10.8	9.3	8.8	7.8	8.3	9.8	10.3	10.3
80°	51.9	23.5	11.8	9.8	8.3	7.8	7.3	6.9	8.8	9.3	9.3
82.5°	49.5	18.6	10.3	8.8	7.8	6.9	6.4	6.9	7.8	8.3	8.8
85°	30.9	12.2	9.3	8.3	6.9	6.4	6.4	6.4	7.3	7.8	7.8
87.5°	11.3	9.8	8.3	6.9	5.9	5.9	5.9	5.9	6.4	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)