

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: P270045

Luminaire Tested: **GPC-AF-02-LED-E1-SL4-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270045
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-SL4-7027-800-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 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: 7077.5 lumens
Efficiency: N/A
Efficacy: 82.3 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

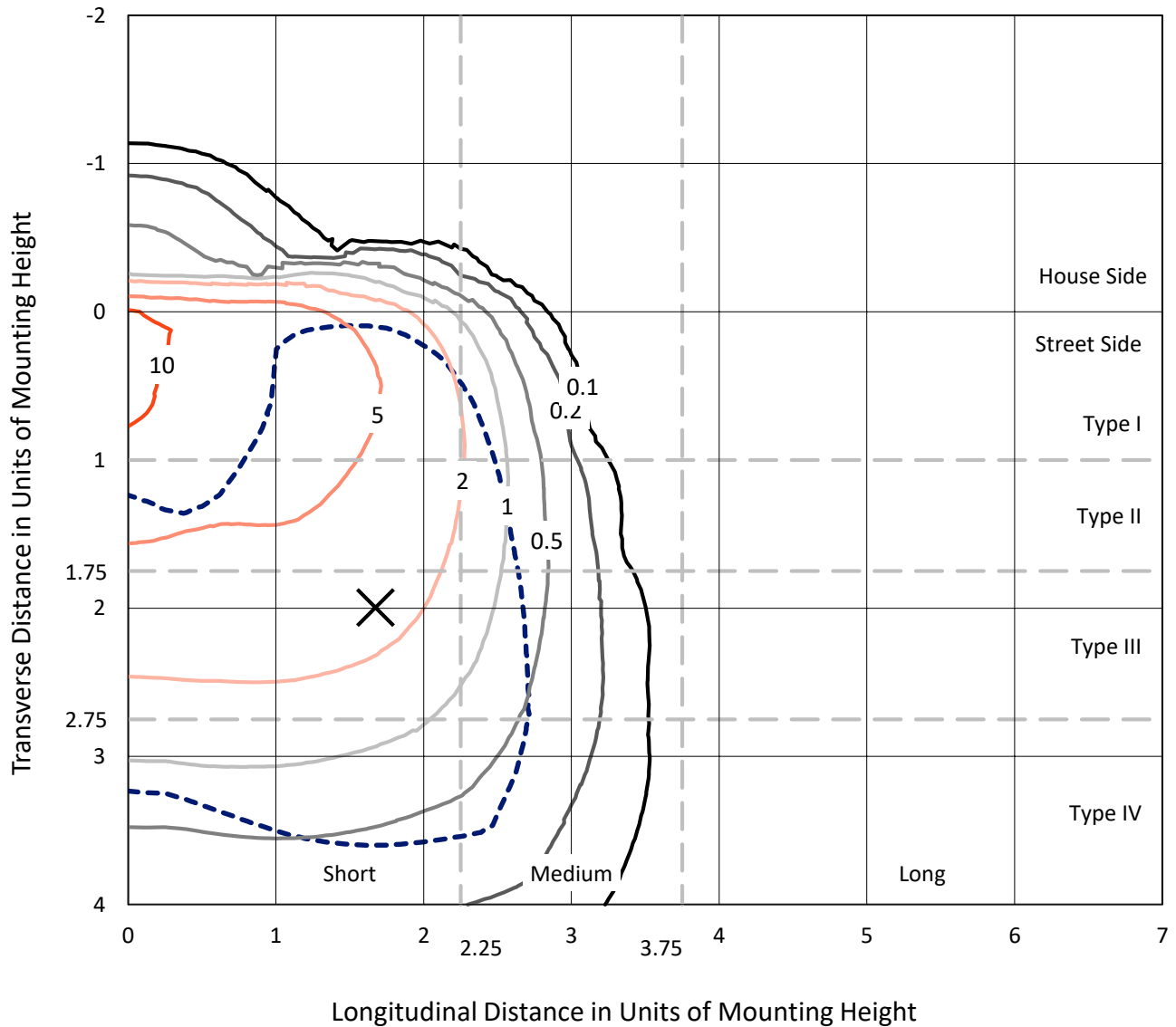


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Iso-Footcandle Lines of Horizontal Illumination

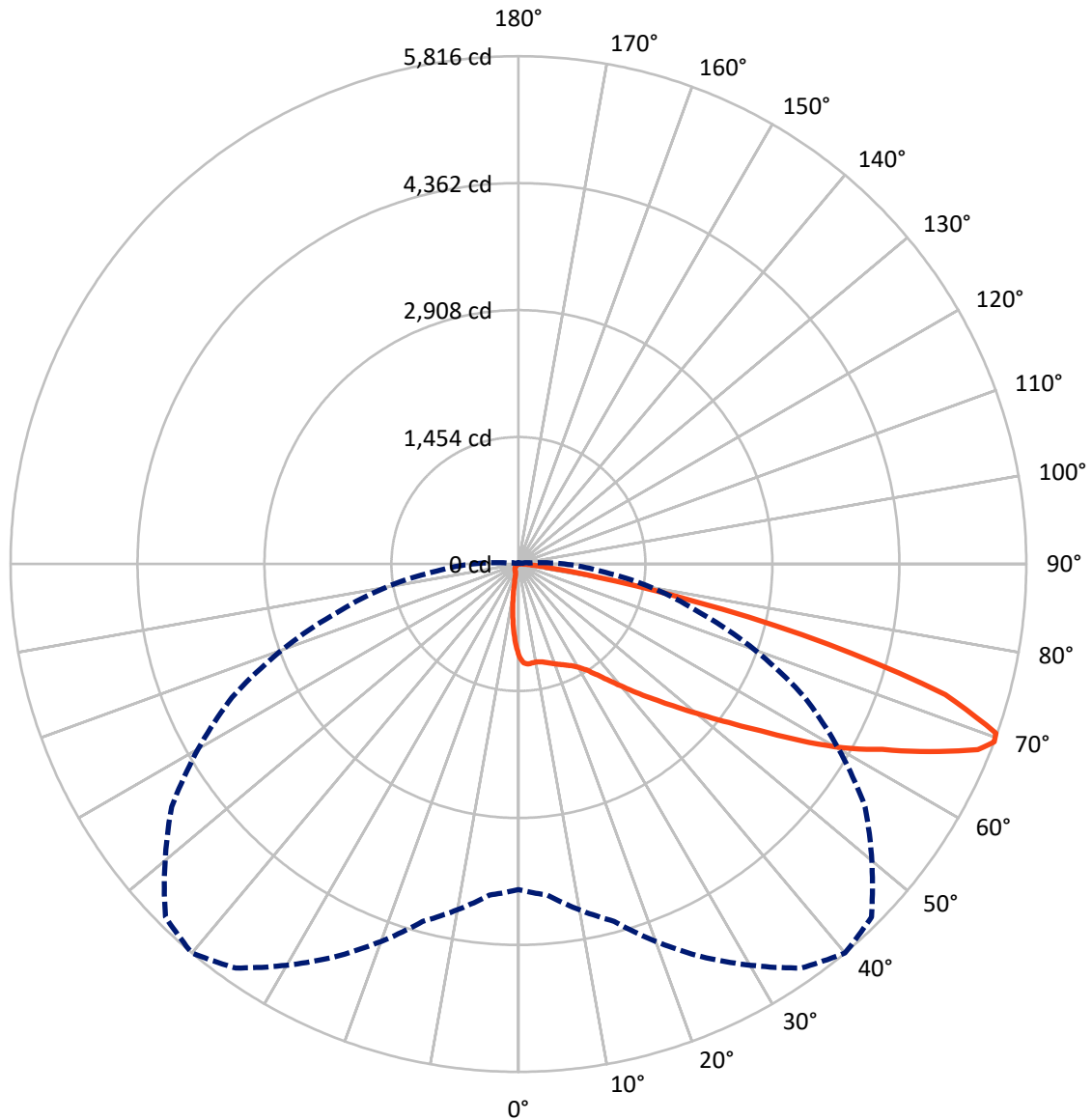
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.6 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	414.1	0.0	414.1
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	6663.4	0.0	6663.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	7077.5	0.0	7077.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	1.2
10°-20°	210.8	3.0
20°-30°	355.1	5.0
30°-40°	581.3	8.2
40°-50°	1006.6	14.2
50°-60°	1585.5	22.4
60°-70°	2070.6	29.3
70°-80°	1066.4	15.1
80°-90°	115.4	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°	7077.5	100.0
0°-180°	7077.5	100.0

Coefficient of Utilization



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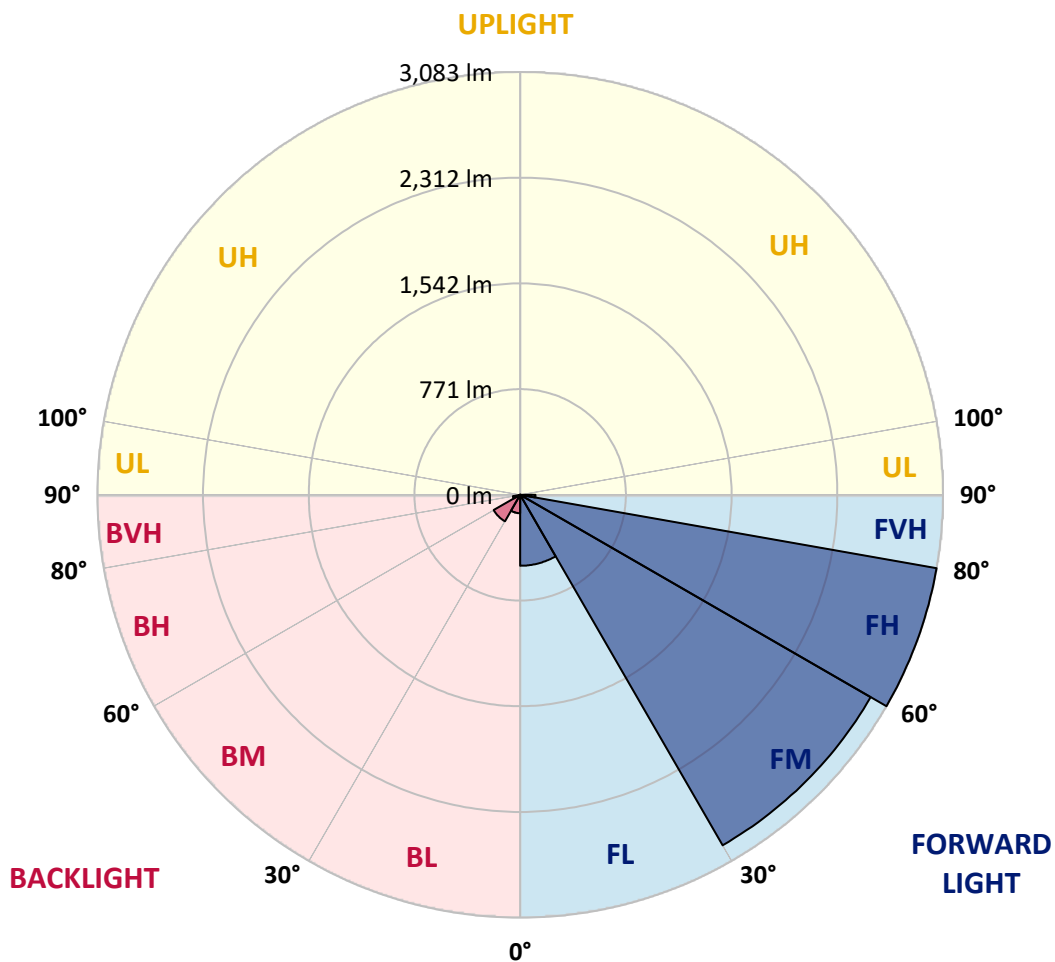
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	517.6	7.3			
FM	(30°-60°)	2950.9	41.7			
FH	(60°-80°)	3083.2	43.6			G2/5000
FVH	(80°-90°)	111.7	1.6			G2/225
BL	(0°-30°)	134.1	1.9	B1/500		
BM	(30°-60°)	222.6	3.1	B1/1000		
BH	(60°-80°)	53.8	0.8	B0/110		G0/110
BVH	(80°-90°)	3.6	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°	1057.5	1057.5	1057.5	1057.5	1057.5	1057.5	1057.5	1057.5	1057.5	1057.5	1057.5
2.5°	1161.1	1154.7	1150.9	1145.9	1139.6	1134.1	1132.0	1116.5	1101.6	1081.4	1058.3
5°	1182.4	1180.5	1173.6	1167.0	1159.4	1150.9	1146.2	1127.7	1106.7	1077.2	1036.7
7.5°	1184.7	1182.1	1173.6	1164.5	1154.0	1143.8	1135.7	1117.2	1097.9	1067.9	1018.7
10°	1181.4	1178.2	1172.0	1161.9	1148.8	1139.1	1131.1	1113.4	1097.0	1070.1	1015.3
12.5°	1177.5	1174.5	1171.6	1166.4	1155.1	1148.5	1141.7	1124.8	1110.0	1087.3	1027.5
15°	1181.4	1179.6	1183.0	1180.8	1174.5	1168.7	1161.9	1146.7	1133.2	1114.3	1049.8
17.5°	1197.4	1197.4	1207.9	1209.1	1203.2	1194.7	1185.0	1170.0	1158.5	1142.6	1076.3
20°	1234.8	1233.6	1246.9	1249.5	1235.2	1222.1	1207.9	1189.3	1180.5	1170.3	1102.5
22.5°	1299.2	1293.3	1301.4	1298.8	1270.6	1250.4	1232.7	1209.8	1205.3	1200.7	1131.5
25°	1383.1	1379.6	1385.1	1360.4	1310.5	1283.1	1262.2	1236.4	1236.4	1241.1	1164.5
27.5°	1504.8	1492.2	1473.6	1429.8	1355.3	1320.2	1297.5	1270.2	1277.3	1294.5	1207.9
30°	1629.5	1615.6	1573.0	1505.6	1409.6	1373.0	1346.4	1317.8	1334.6	1366.2	1265.9
32.5°	1752.6	1737.0	1676.6	1591.5	1487.6	1450.9	1425.3	1393.6	1421.7	1474.8	1351.1
35°	1871.8	1857.9	1788.3	1688.1	1591.2	1560.8	1537.3	1510.0	1546.2	1620.3	1471.2
37.5°	2005.7	1990.6	1905.8	1797.1	1717.1	1695.2	1677.9	1650.5	1713.7	1822.4	1638.4
40°	2170.5	2144.8	2030.6	1922.4	1862.8	1852.3	1840.5	1836.8	1934.9	2085.3	1861.2
42.5°	2359.2	2317.1	2161.1	2054.2	2023.0	2030.6	2027.7	2044.5	2211.6	2412.3	2132.4
45°	2548.0	2493.5	2306.5	2194.9	2199.1	2225.6	2242.0	2309.5	2558.5	2787.3	2424.4
47.5°	2708.0	2654.5	2445.9	2346.9	2397.4	2449.8	2494.5	2622.1	2914.8	3156.3	2651.5
50°	2844.9	2794.4	2593.9	2514.1	2627.9	2712.3	2784.7	2973.7	3298.1	3437.3	2810.7
52.5°	2957.0	2923.3	2747.1	2705.9	2891.3	3014.7	3120.8	3347.4	3637.7	3665.5	2934.7
55°	3066.1	3042.1	2911.9	2933.8	3200.4	3368.6	3502.9	3743.9	3930.2	3856.0	3053.3
57.5°	3191.6	3169.7	3099.8	3222.8	3607.0	3818.4	3965.1	4095.3	4187.4	4050.5	3165.4
60°	3319.6	3307.0	3308.7	3543.9	4073.8	4276.8	4357.7	4391.5	4440.3	4233.8	3171.8
62.5°	3441.9	3465.9	3547.5	3901.0	4520.7	4676.7	4717.4	4750.7	4693.5	4262.9	2930.5
65°	3648.6	3687.9	3883.0	4379.1	5012.4	5179.2	5221.3	5107.1	4733.4	3887.1	2383.7
67.5°	3749.9	3821.4	4169.5	4824.8	5489.3	5674.7	5659.1	5130.3	4247.7	2964.0	1529.6
69°	3728.8	3805.0	4235.6	4961.3	5647.6	5815.7	5716.8	4846.9	3618.8	2147.3	939.0
70°	3645.3	3722.4	4201.5	4956.4	5667.9	5801.1	5609.7	4496.7	3059.7	1570.1	587.2
72.5°	3044.1	3110.7	3730.0	4479.8	5221.3	5113.1	4693.0	3115.3	1490.8	427.7	132.3
75°	1873.9	1911.0	2676.4	3374.8	3943.6	3665.5	3126.7	1549.8	444.4	120.9	73.3
77.5°	990.0	1006.9	1465.2	1989.2	2499.9	2068.4	1602.5	604.5	204.8	75.8	53.1
80°	585.2	597.8	789.0	909.5	1081.9	903.7	640.9	371.1	146.7	47.6	47.3
82.5°	334.9	343.0	572.1	505.6	426.3	364.1	318.9	351.7	88.0	32.0	48.9
85°	123.0	124.8	321.9	384.7	253.6	150.8	158.5	291.5	23.5	20.2	38.4
87.5°	57.3	56.1	165.6	235.4	148.3	95.6	123.4	64.0	9.3	13.0	10.5
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°	1057.5	1057.5	1057.5	1057.5	1057.5	1057.5	1057.5	1057.5	1057.5	1057.5	1057.5
2.5°	1044.8	1029.2	1000.9	971.8	942.4	919.7	897.3	879.6	873.7	862.8	863.6
5°	1012.7	984.2	925.2	865.2	802.9	751.5	703.2	663.9	645.0	625.6	625.6
7.5°	984.9	943.2	851.0	753.7	653.0	568.3	492.0	434.8	403.2	377.8	377.5
10°	974.4	918.0	789.0	649.7	509.2	393.8	303.3	245.1	215.2	195.9	195.0
12.5°	979.1	909.2	741.5	553.5	377.5	253.2	175.7	138.2	125.6	119.7	119.7
15°	992.5	906.6	693.9	459.7	266.6	158.5	116.7	106.5	105.7	105.7	105.7
17.5°	1008.9	907.5	645.0	368.1	181.5	113.4	100.7	99.4	100.3	100.3	100.3
20°	1025.9	907.8	592.3	283.5	128.1	98.5	94.9	94.3	95.2	95.2	95.6
22.5°	1046.4	910.0	539.6	211.9	105.7	93.2	90.2	90.2	90.5	90.5	90.2
25°	1070.1	914.1	484.8	157.2	96.5	89.3	86.7	86.3	86.7	86.3	86.0
27.5°	1099.5	920.0	423.8	123.0	92.3	85.5	83.5	83.5	83.1	82.6	82.1
30°	1136.6	926.8	355.1	104.5	88.0	82.1	80.0	79.6	79.2	78.3	78.3
32.5°	1193.0	941.6	287.3	94.9	83.5	77.6	75.8	75.8	75.0	74.1	73.8
35°	1279.8	970.6	226.6	88.9	78.3	72.5	70.3	70.3	69.4	69.1	68.7
37.5°	1399.9	1014.8	176.1	83.5	73.3	67.0	64.9	64.5	63.6	62.8	62.3
40°	1559.5	1069.6	138.6	78.3	68.2	61.5	59.8	59.0	57.3	56.1	56.1
42.5°	1760.0	1132.0	112.5	72.9	62.3	56.5	55.2	53.9	50.9	49.6	49.2
45°	1970.0	1188.0	95.2	66.6	56.5	51.5	50.6	48.5	44.6	43.4	43.4
47.5°	2121.2	1201.0	83.8	60.6	50.9	46.0	45.5	41.7	38.4	37.5	37.1
50°	2215.5	1175.3	74.6	54.7	46.0	40.9	39.5	34.9	32.9	32.0	31.6
52.5°	2279.1	1129.4	67.0	49.6	41.3	36.2	33.2	30.0	28.2	27.4	27.4
55°	2330.2	1064.6	59.4	45.0	37.5	32.5	28.2	25.7	24.1	23.1	23.1
57.5°	2344.3	976.5	51.8	41.3	33.6	28.7	24.1	22.3	20.2	19.9	19.9
60°	2240.4	817.6	46.0	36.7	30.4	24.9	21.1	19.0	16.9	16.3	16.0
62.5°	1966.1	632.8	40.5	32.5	26.5	21.5	18.1	15.6	14.0	14.0	14.0
65°	1499.7	424.2	35.5	28.2	23.1	18.1	15.6	12.7	11.8	11.8	12.1
67.5°	897.8	230.9	30.4	24.1	19.9	15.2	13.0	11.0	10.5	11.0	11.0
69°	526.1	135.6	27.4	21.5	17.2	13.5	11.4	9.7	10.5	11.0	11.0
70°	324.7	91.4	25.3	19.4	15.6	12.1	10.5	9.3	10.2	10.5	10.5
72.5°	90.5	47.3	20.2	15.2	12.7	10.2	8.4	8.4	9.7	10.2	10.2
75°	59.0	34.9	15.6	11.4	9.7	8.1	7.1	8.1	9.3	9.7	9.7
77.5°	48.9	28.7	12.7	9.3	8.1	7.5	6.7	7.1	8.4	8.9	8.9
80°	44.6	20.2	10.2	8.4	7.1	6.7	6.3	5.8	7.5	8.1	8.1
82.5°	42.6	16.0	8.9	7.5	6.7	5.8	5.5	5.8	6.7	7.1	7.5
85°	26.5	10.5	8.1	7.1	5.8	5.5	5.5	5.5	6.3	6.7	6.7
87.5°	9.7	8.4	7.1	5.8	5.1	5.1	5.1	5.1	5.5	6.3	6.3
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)