

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: P268999

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-7027-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268999  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-01-LED-E1-SL3-7027-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5074.3 lumens  
Efficiency: N/A  
Efficacy: 75.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
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

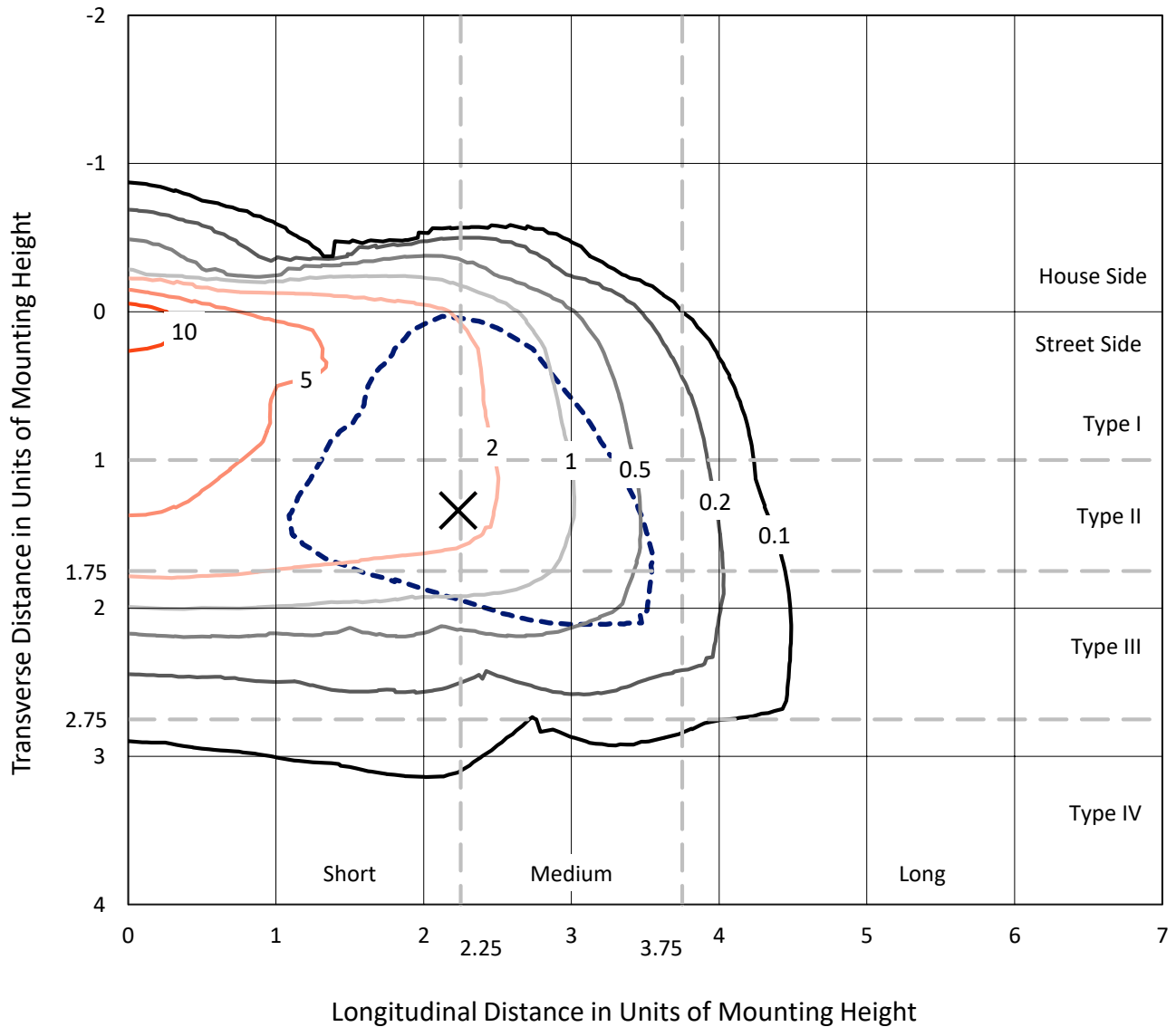


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

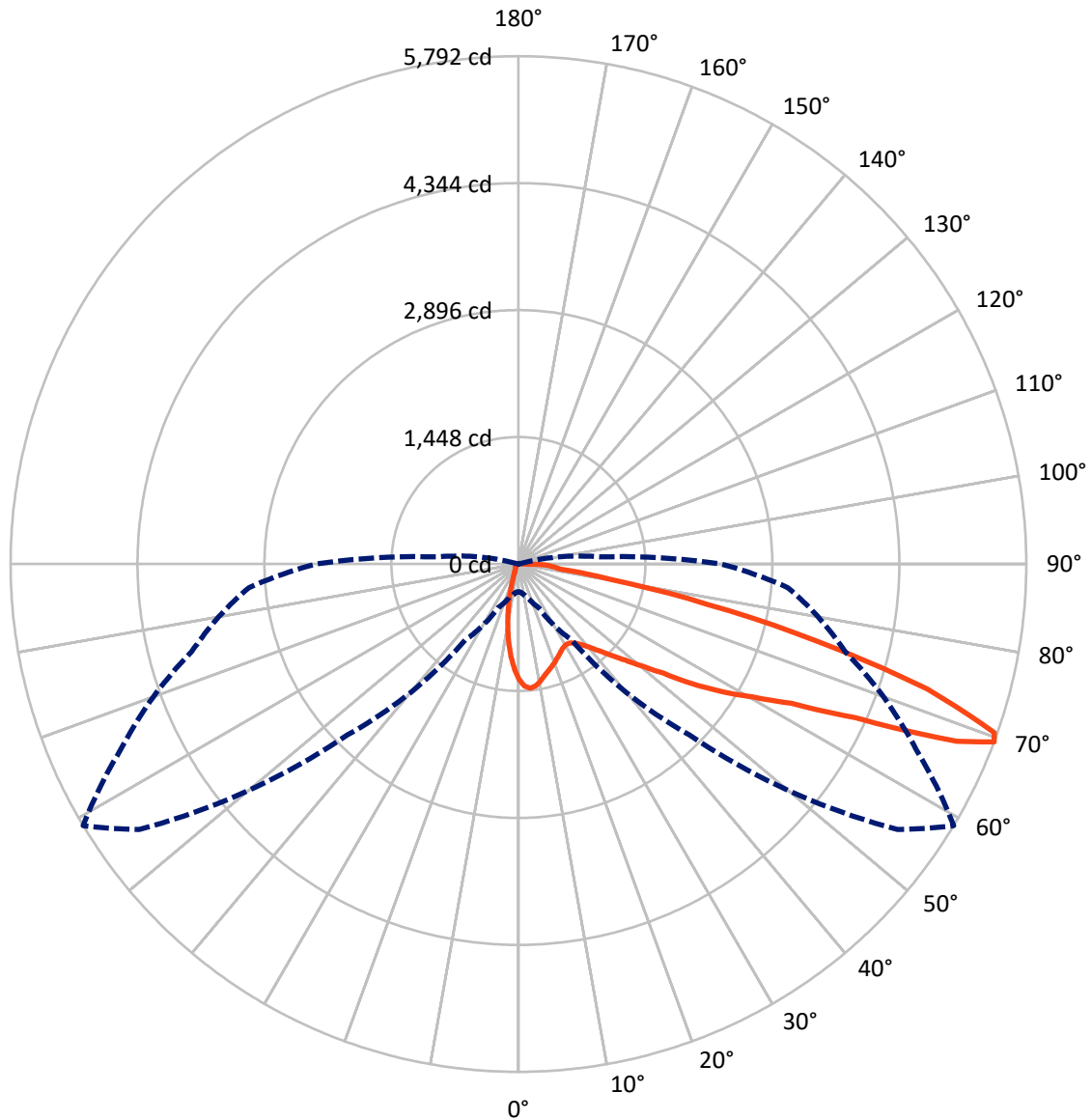


Based on 10 foot mounting height. Maximum calculated value = 13.3 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	413.2	0.0	413.2
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	4661.0	0.0	4661.0
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	5074.3	0.0	5074.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.2	2.1
10°-20°	221.5	4.4
20°-30°	298.1	5.9
30°-40°	432.8	8.5
40°-50°	720.6	14.2
50°-60°	1124.2	22.2
60°-70°	1391.1	27.4
70°-80°	705.0	13.9
80°-90°	73.8	1.5
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°	5074.3	100.0
0°-180°	5074.3	100.0



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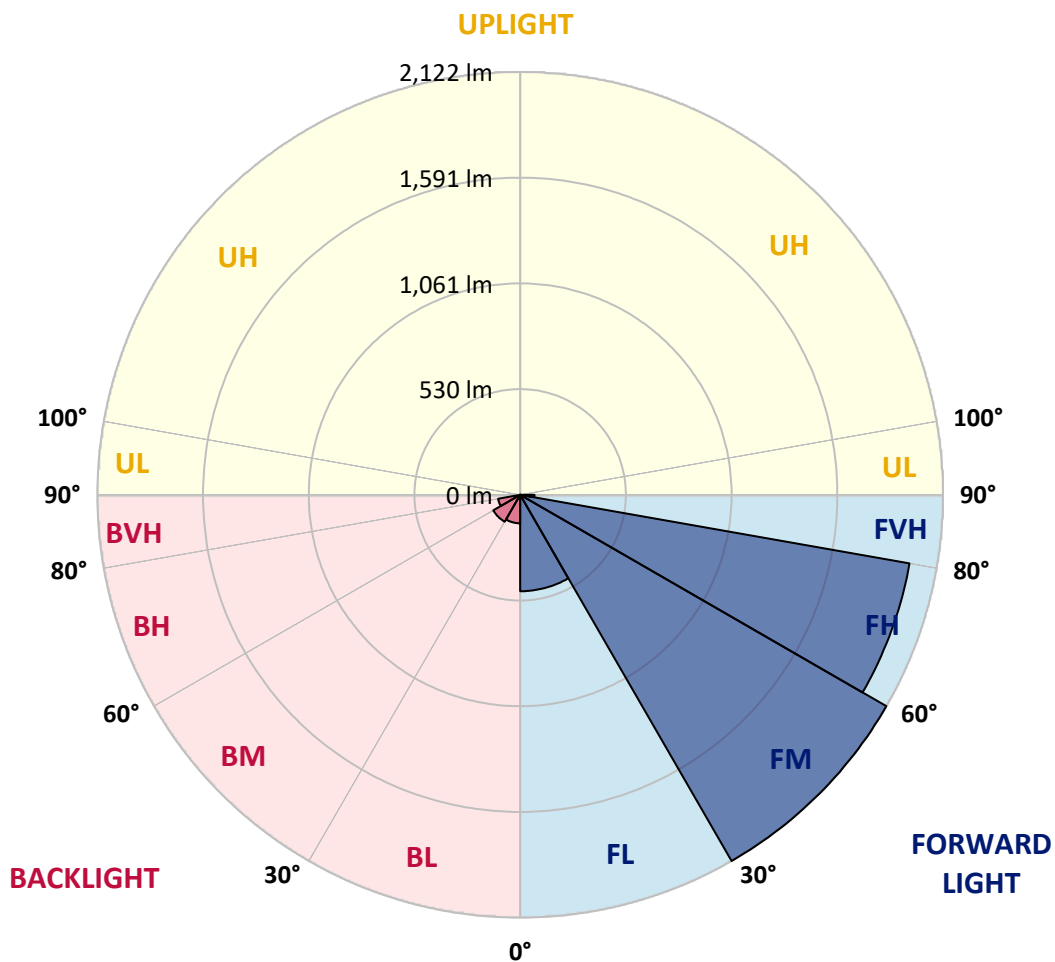
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	483.8	9.5			
FM	(30°-60°)	2121.9	41.8			
FH	(60°-80°)	1983.9	39.1			G2/5000
FVH	(80°-90°)	71.5	1.4			G1/100
BL	(0°-30°)	143.0	2.8	B1/500		
BM	(30°-60°)	155.7	3.1	B0/220		
BH	(60°-80°)	112.2	2.2	B1/500		G1/500
BVH	(80°-90°)	2.3	0.0			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8
2.5°	1447.6	1447.0	1440.7	1437.8	1432.6	1421.7	1404.8	1396.0	1381.7	1356.6	1323.1
5°	1434.4	1441.3	1445.1	1445.4	1449.1	1445.1	1429.8	1422.3	1402.6	1362.4	1302.2
7.5°	1344.9	1347.5	1358.1	1367.2	1385.0	1402.0	1407.5	1404.3	1392.6	1349.4	1269.3
10°	1249.1	1251.6	1264.3	1276.3	1300.3	1326.4	1354.0	1359.8	1364.6	1331.1	1237.9
12.5°	1166.4	1169.0	1181.9	1197.7	1225.7	1257.9	1300.7	1310.2	1331.6	1313.6	1212.6
15°	1095.3	1096.4	1109.0	1128.5	1162.0	1203.4	1251.9	1267.1	1300.0	1301.3	1190.6
17.5°	1034.7	1037.5	1045.3	1064.0	1100.7	1151.7	1208.3	1230.0	1268.9	1291.0	1169.0
20°	997.7	1000.5	1000.3	1010.7	1043.7	1098.1	1164.7	1190.8	1237.9	1280.4	1149.7
22.5°	990.6	990.6	983.0	981.6	1001.2	1046.7	1119.4	1151.2	1209.9	1275.8	1136.3
25°	1016.1	1014.8	996.2	980.9	981.8	1009.2	1075.5	1113.3	1186.5	1278.8	1129.1
27.5°	1070.1	1068.5	1045.0	1016.1	992.7	992.4	1042.2	1082.8	1167.8	1293.7	1132.0
30°	1144.6	1144.0	1118.5	1082.0	1039.9	1001.2	1030.6	1067.6	1155.8	1320.8	1138.5
32.5°	1226.0	1225.2	1206.0	1167.5	1114.2	1039.9	1042.8	1073.7	1159.3	1356.6	1154.6
35°	1312.5	1310.9	1302.7	1269.1	1210.2	1111.4	1082.3	1106.4	1181.0	1410.2	1186.2
37.5°	1405.9	1407.5	1413.5	1381.4	1319.6	1211.5	1148.7	1164.9	1224.8	1483.1	1237.5
40°	1543.9	1543.6	1545.8	1503.6	1444.1	1334.0	1241.3	1246.5	1298.4	1579.8	1315.6
42.5°	1794.5	1776.9	1723.8	1637.8	1578.1	1473.9	1358.1	1352.6	1388.2	1699.6	1424.9
45°	2131.0	2093.8	1956.0	1791.0	1714.8	1631.9	1501.8	1484.3	1506.9	1843.2	1559.7
47.5°	2420.7	2381.9	2187.1	1950.6	1859.6	1781.6	1670.3	1638.7	1646.1	2004.3	1730.8
50°	2518.9	2500.1	2329.9	2089.5	1999.9	1970.2	1865.6	1827.2	1816.6	2190.4	1929.1
52.5°	2484.8	2483.5	2370.1	2179.6	2128.4	2165.3	2111.6	2067.1	2028.1	2386.7	2130.8
55°	2430.1	2437.2	2386.4	2258.5	2256.7	2343.4	2447.8	2410.8	2297.8	2600.0	2304.6
57.5°	2278.8	2309.5	2377.3	2407.6	2478.2	2566.8	2728.0	2749.7	2616.0	2763.1	2449.0
60°	1849.0	1916.4	2138.0	2429.1	2763.7	2984.7	3065.8	3084.5	2877.1	2898.9	2643.8
62.5°	1312.5	1381.4	1662.3	2154.9	2768.0	3533.7	3569.4	3496.4	3164.5	3100.1	2979.8
65°	696.6	749.7	979.3	1555.4	2399.9	3661.0	4450.1	4231.9	3671.9	3495.8	3414.0
67.5°	356.4	372.4	463.6	761.3	1649.8	3251.9	5239.5	5393.0	4546.2	3888.3	3393.0
69°	315.3	324.7	385.4	550.3	1056.4	2754.4	5277.9	5791.6	5003.9	3855.5	3083.4
70°	305.3	313.6	368.8	498.1	825.8	2309.8	5130.7	5756.5	5120.9	3731.0	2852.1
72.5°	259.2	266.3	328.2	440.2	671.2	1146.5	4167.7	4877.8	4595.3	3108.0	2064.5
75°	173.4	196.9	315.0	412.6	624.4	651.4	2747.6	3524.9	3274.5	2096.4	1075.5
77.5°	41.6	44.7	88.9	328.2	571.1	573.3	1413.2	2191.3	1787.3	747.2	254.2
80°	22.4	21.5	25.0	65.1	531.6	538.1	636.1	1063.7	638.2	124.0	83.8
82.5°	15.8	14.9	16.1	27.3	167.3	490.0	460.2	481.5	264.6	47.6	37.5
85°	5.7	5.5	9.0	24.7	52.6	281.8	472.9	397.1	214.3	21.7	27.6
87.5°	1.9	1.7	3.5	13.5	16.1	120.0	291.8	300.2	84.4	13.1	12.9
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°	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8
2.5°	1309.0	1291.3	1258.4	1224.8	1193.9	1156.7	1138.1	1119.6	1111.8	1109.0	1095.6
5°	1271.1	1241.0	1171.6	1101.9	1037.5	969.4	924.3	888.1	866.9	856.5	840.2
7.5°	1222.7	1173.2	1067.9	960.4	860.2	761.6	688.3	632.0	593.4	574.7	557.8
10°	1175.6	1109.9	960.1	813.4	677.4	546.6	445.6	372.4	325.6	304.2	290.4
12.5°	1133.4	1048.1	855.9	670.2	499.5	346.3	243.6	185.4	156.3	146.3	141.5
15°	1095.8	991.4	757.5	534.3	338.3	197.9	133.0	113.4	108.8	108.8	108.2
17.5°	1060.2	935.7	662.5	406.7	212.3	121.1	101.2	98.8	98.8	99.8	99.8
20°	1026.0	882.7	570.8	291.8	133.7	96.1	91.5	91.0	91.5	93.0	93.0
22.5°	996.8	834.3	484.9	200.3	99.4	86.6	84.4	83.5	83.8	84.6	85.2
25°	975.0	793.7	404.0	135.7	85.5	79.0	76.4	74.9	73.8	73.8	74.3
27.5°	961.2	759.2	325.6	98.8	76.8	71.8	67.7	65.4	62.8	61.4	62.0
30°	951.1	726.5	252.2	80.6	68.9	63.7	58.5	54.7	51.1	49.3	49.9
32.5°	947.4	700.0	188.6	71.1	61.8	56.0	49.6	44.7	40.8	39.3	39.5
35°	957.6	679.2	138.0	64.3	56.0	48.8	41.6	36.1	33.0	32.1	32.3
37.5°	984.0	668.0	103.2	58.5	50.8	42.8	34.8	29.6	27.6	27.6	27.8
40°	1033.8	667.7	83.0	54.4	46.3	37.0	28.7	25.0	23.9	24.3	24.7
42.5°	1106.7	682.9	72.4	50.8	42.2	31.6	23.9	21.2	20.9	21.5	21.7
45°	1206.2	710.6	66.6	47.6	37.9	26.4	20.1	18.3	18.3	19.3	19.6
47.5°	1328.2	751.5	61.8	44.5	33.5	22.1	17.2	16.1	16.3	17.2	17.4
50°	1475.1	802.8	56.9	41.1	30.5	18.3	14.9	14.1	14.4	15.5	15.8
52.5°	1642.5	872.0	52.8	37.9	26.4	15.2	12.7	12.0	12.7	13.7	14.1
55°	1785.9	934.0	47.9	35.4	21.2	12.7	10.3	10.3	10.9	12.3	12.7
57.5°	1923.9	998.8	43.6	30.5	16.7	10.1	8.7	9.0	9.7	11.1	11.5
60°	2126.5	1108.7	38.4	25.5	12.7	8.1	7.1	7.5	8.7	10.1	10.3
62.5°	2470.5	1276.0	33.2	21.2	9.7	6.3	5.7	6.3	7.7	9.4	9.7
65°	2781.0	1344.0	27.3	17.7	7.5	4.9	4.9	5.7	7.5	9.3	9.4
67.5°	2608.0	1131.3	21.2	14.1	5.7	3.8	4.0	5.5	7.1	9.3	9.4
69°	2306.4	925.1	18.1	11.1	4.9	3.5	3.8	5.5	7.1	9.0	9.3
70°	2071.4	781.0	16.1	9.4	4.3	3.5	3.8	5.2	7.1	9.0	9.3
72.5°	1387.3	421.8	12.9	6.8	4.0	3.1	3.1	5.2	6.8	8.7	9.0
75°	596.3	116.5	10.3	4.9	3.5	2.9	2.9	4.9	6.6	8.4	9.0
77.5°	109.1	29.6	8.4	4.3	3.5	2.9	2.5	4.6	6.3	8.1	8.4
80°	43.3	14.6	6.6	3.8	3.1	2.5	2.2	4.3	6.0	7.7	8.1
82.5°	26.1	8.4	5.5	3.5	3.1	2.2	1.9	3.8	5.7	7.5	7.7
85°	21.2	5.7	4.3	3.5	2.9	2.2	1.7	3.5	5.2	7.1	7.5
87.5°	10.3	4.0	4.0	3.1	2.9	2.2	1.7	3.1	4.9	6.8	7.1
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)