

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: P450979

Luminaire Tested: **GALN-SA1D-750-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450979  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-750-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6406 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

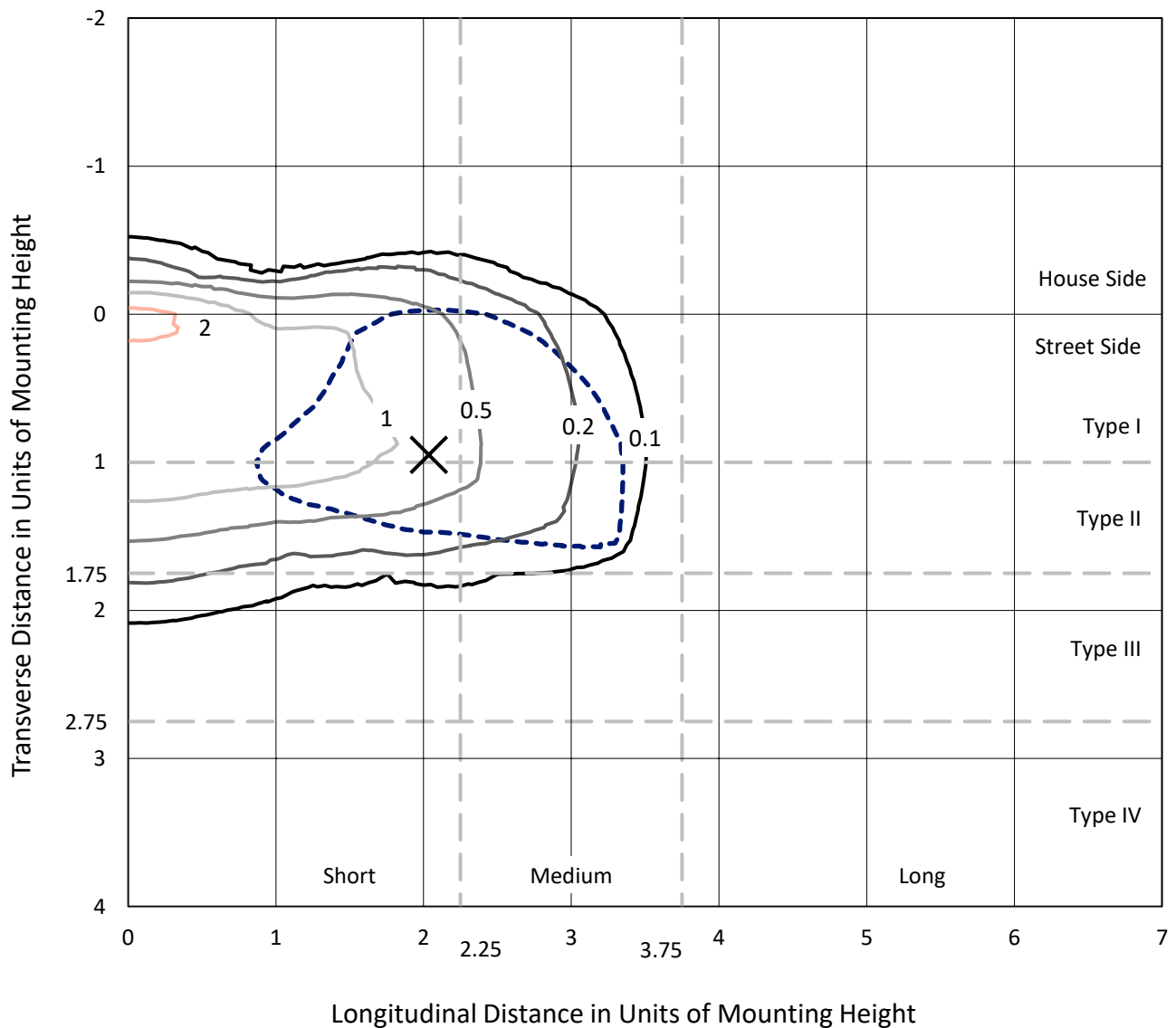
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

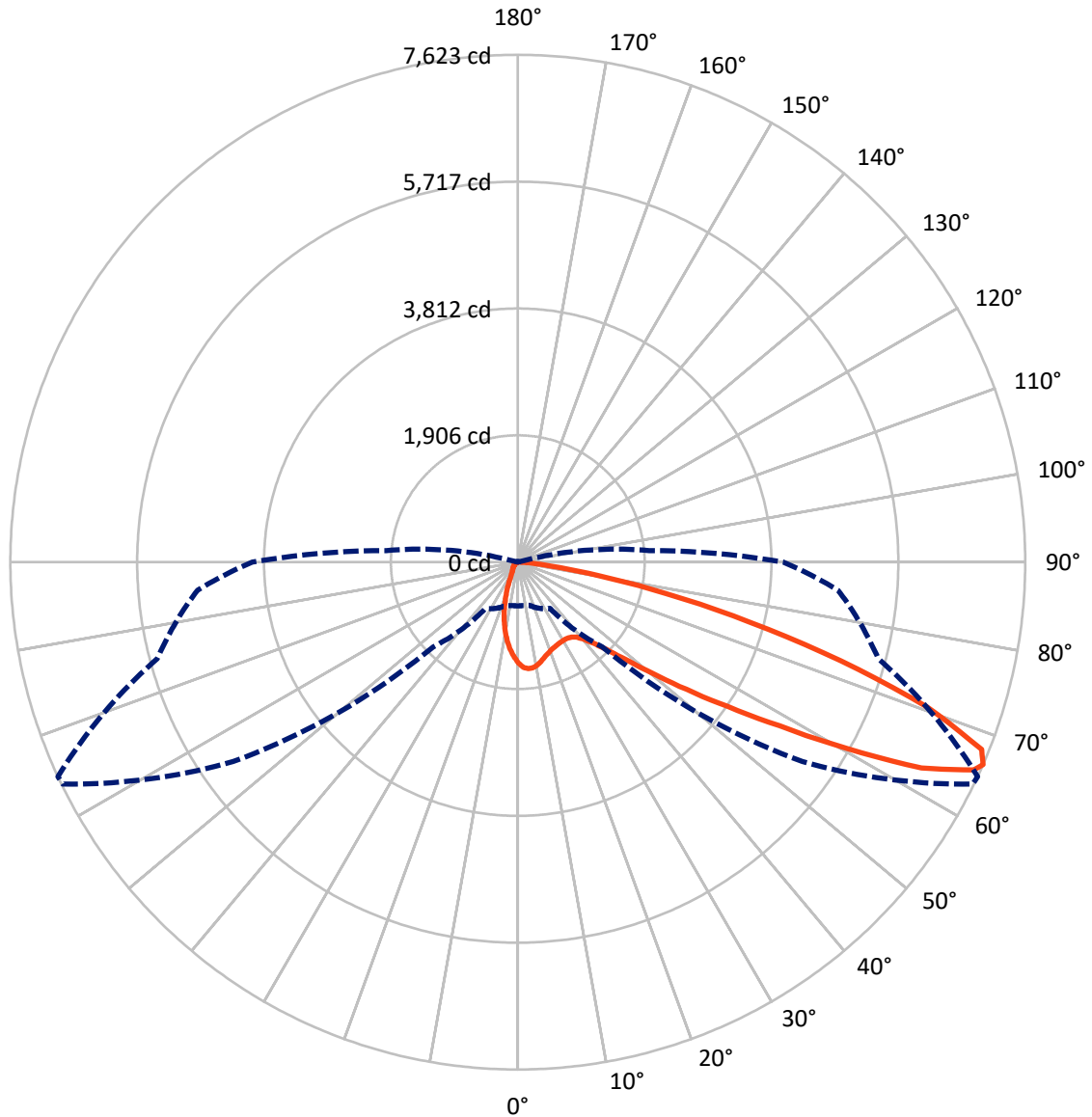
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	662.5	0.0	662.5
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	5743.5	0.0	5743.5
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	6406.0	0.0	6406.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.2	1.9
10°-20°	270.7	4.2
20°-30°	387.8	6.1
30°-40°	566.4	8.8
40°-50°	949.7	14.8
50°-60°	1584.9	24.7
60°-70°	1682.4	26.3
70°-80°	761.9	11.9
80°-90°	78.0	1.2
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°	6406.0	100.0
0°-180°	6406.0	100.0

**Coefficient of Utilization**



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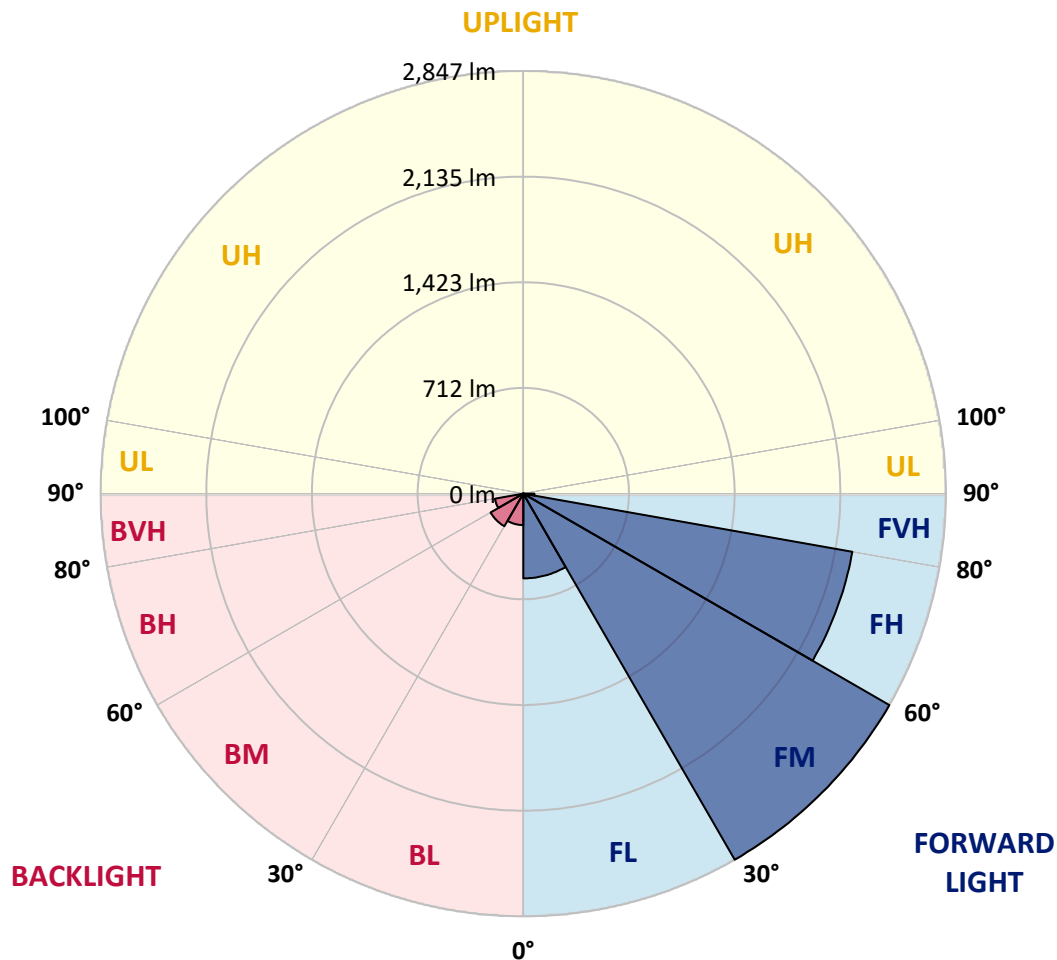
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	570.8	8.9			
FM (30°-60°)	2847.0	44.4			
FH (60°-80°)	2250.3	35.1			G2/5000
FVH (80°-90°)	75.5	1.2			G1/100
BL (0°-30°)	211.9	3.3	B1/500		
BM (30°-60°)	254.1	4.0	B1/1000		
BH (60°-80°)	194.0	3.0	B1/500		G1/500
BVH (80°-90°)	2.5	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1
2.5°	1600.9	1602.6	1604.8	1607.8	1610.0	1603.5	1594.4	1584.0	1581.8	1559.8	1532.9
5°	1515.2	1517.8	1536.8	1547.2	1570.6	1591.8	1605.2	1606.9	1606.1	1585.3	1542.5
7.5°	1393.2	1400.5	1419.2	1437.3	1481.0	1521.3	1568.9	1602.2	1604.3	1598.7	1545.5
10°	1294.1	1298.9	1308.4	1344.3	1380.6	1442.1	1508.7	1571.5	1576.6	1599.1	1542.9
12.5°	1216.7	1223.6	1235.3	1263.0	1306.7	1364.6	1440.4	1524.7	1535.5	1590.9	1535.5
15°	1162.6	1166.0	1177.7	1205.0	1247.4	1301.0	1377.6	1475.8	1485.4	1580.1	1534.2
17.5°	1137.1	1140.9	1149.2	1170.8	1205.8	1255.6	1330.5	1436.5	1448.6	1573.2	1539.0
20°	1144.0	1147.4	1147.9	1159.1	1182.9	1224.9	1295.8	1399.7	1415.3	1568.9	1546.8
22.5°	1183.3	1183.8	1178.6	1173.4	1181.6	1211.9	1274.6	1376.3	1392.3	1568.0	1555.9
25°	1242.2	1243.5	1234.8	1216.7	1200.2	1215.8	1269.9	1361.2	1375.5	1565.8	1561.5
27.5°	1323.5	1323.1	1320.5	1290.2	1243.5	1233.1	1273.8	1353.0	1365.1	1559.8	1563.7
30°	1437.3	1433.9	1428.2	1394.1	1322.7	1275.1	1290.2	1347.8	1359.0	1551.1	1558.0
32.5°	1549.4	1562.4	1561.5	1529.1	1439.9	1349.9	1324.4	1354.7	1362.9	1545.5	1549.8
35°	1680.1	1679.6	1712.9	1700.8	1596.5	1445.5	1382.8	1377.6	1384.1	1549.4	1545.9
37.5°	1801.2	1812.4	1864.4	1876.9	1781.7	1580.5	1465.4	1426.9	1429.1	1575.8	1555.4
40°	1952.2	1973.8	2051.3	2093.2	2009.3	1780.9	1587.5	1517.4	1517.8	1640.7	1591.4
42.5°	2146.9	2181.1	2253.3	2323.4	2278.4	2018.0	1770.5	1660.6	1659.7	1754.9	1673.6
45°	2383.6	2407.4	2489.6	2600.8	2572.2	2349.0	2037.0	1882.5	1871.3	1942.2	1819.4
47.5°	2587.8	2620.2	2703.7	2830.5	2960.3	2753.1	2355.4	2187.6	2180.2	2240.4	2069.5
50°	2676.9	2705.5	2793.3	2971.1	3285.7	3283.5	2829.7	2632.8	2620.2	2652.7	2456.3
52.5°	2579.1	2606.0	2694.7	2916.2	3438.8	3929.9	3516.7	3191.4	3176.2	3134.7	2918.3
55°	2244.3	2266.3	2397.4	2651.8	3380.0	4360.9	4463.4	3881.5	3822.6	3661.2	3441.4
57.5°	1786.9	1775.7	1857.0	2152.5	3034.7	4505.4	5435.2	4741.2	4636.0	4116.4	3884.1
60°	1238.3	1272.9	1305.8	1500.5	2281.9	4254.9	6039.6	5822.0	5683.5	4564.2	4308.1
62.5°	910.3	933.3	954.9	1044.9	1434.7	3397.3	6146.5	6932.2	6809.3	5039.7	4712.6
65°	720.0	721.7	730.3	819.0	945.4	2209.2	5632.9	7558.3	7526.7	5497.5	4876.6
66°	655.9	656.4	669.8	765.0	848.5	1799.0	5221.4	7605.9	7623.2	5607.4	4828.6
67.5°	573.3	571.6	591.0	687.5	772.7	1297.1	4485.0	7412.9	7515.5	5691.8	4655.9
70°	444.4	442.2	466.0	576.7	711.7	865.3	2981.1	6365.0	6530.3	5519.1	4119.4
72.5°	295.9	297.7	338.3	455.2	679.3	761.9	1793.4	4842.0	5075.6	4557.7	3240.7
75°	172.6	175.7	222.0	338.3	589.7	726.5	1015.0	3452.7	3602.0	3147.2	2018.8
77.5°	90.4	91.7	124.2	223.3	452.1	674.5	676.3	2205.7	2275.8	1529.5	799.1
80°	48.0	46.7	66.6	134.6	311.1	592.3	548.6	1167.8	1214.1	454.3	202.1
82.5°	18.2	19.9	35.5	88.3	183.9	425.3	472.5	516.2	500.2	99.9	84.8
85°	3.5	4.3	15.1	52.4	92.6	177.8	348.3	253.1	234.5	37.6	48.9
87.5°	0.4	0.9	4.3	12.5	13.4	60.1	103.0	70.1	60.6	13.8	20.3
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°	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1	1519.1
2.5°	1520.0	1508.3	1469.3	1430.8	1391.5	1356.0	1331.8	1292.4	1282.4	1268.2	1259.9
5°	1516.9	1489.7	1414.8	1333.1	1256.9	1174.7	1112.0	1051.4	1018.9	1002.5	996.4
7.5°	1508.3	1465.0	1348.2	1220.1	1098.1	975.2	868.4	787.0	734.7	698.8	674.5
10°	1491.0	1431.3	1270.7	1094.7	910.3	748.1	612.7	509.7	430.1	405.0	405.8
12.5°	1473.2	1393.6	1184.2	955.3	726.9	522.2	378.6	297.2	259.2	246.6	244.0
15°	1456.8	1357.7	1099.4	820.3	541.3	338.3	244.0	215.5	205.1	202.9	202.5
17.5°	1448.1	1324.4	1009.0	665.9	377.7	229.7	195.6	187.8	184.7	182.6	181.7
20°	1440.8	1295.4	922.4	521.4	258.3	188.2	175.2	167.9	162.7	160.5	159.2
22.5°	1435.6	1265.6	832.9	403.7	197.7	167.0	155.3	145.8	138.5	135.9	134.1
25°	1427.8	1232.7	742.5	295.1	166.6	148.4	135.0	123.7	114.2	109.5	108.6
27.5°	1416.6	1195.5	643.4	218.5	148.8	132.0	115.5	101.7	92.2	87.0	87.4
30°	1398.4	1156.5	544.3	173.5	134.6	115.1	97.4	83.9	74.9	71.0	70.5
32.5°	1376.8	1109.4	453.4	148.8	121.6	99.9	81.3	69.7	62.7	59.7	59.3
35°	1356.4	1061.8	360.8	133.7	108.2	86.1	68.4	58.4	53.2	50.6	51.1
37.5°	1345.2	1019.4	281.2	121.6	97.4	74.0	58.8	50.2	45.4	43.3	42.8
40°	1352.5	984.8	223.7	110.8	85.2	63.6	50.6	43.3	38.5	35.5	35.5
42.5°	1387.1	969.6	180.4	100.4	74.0	54.9	44.1	37.2	32.0	29.0	29.4
45°	1492.7	985.6	151.0	90.9	63.6	47.6	38.1	30.7	26.0	23.8	23.4
47.5°	1667.9	1045.8	130.7	80.9	54.5	40.7	32.0	25.5	20.8	19.0	18.6
50°	1974.3	1169.9	115.5	71.0	46.3	34.6	26.4	20.3	16.4	14.7	14.7
52.5°	2395.7	1440.8	104.7	59.7	38.9	29.4	21.6	16.4	13.0	11.7	11.2
55°	2836.1	1726.3	99.1	50.2	32.5	24.2	17.3	13.0	10.0	8.7	8.2
57.5°	3259.7	1950.5	92.6	40.7	26.0	18.6	13.4	10.0	6.9	6.1	5.6
60°	3666.0	2131.8	78.7	32.5	20.3	13.4	10.0	6.9	4.8	3.9	3.9
62.5°	4029.4	2237.3	61.9	26.0	15.6	9.5	6.5	5.2	3.5	2.6	2.6
65°	4071.8	2100.2	46.7	19.9	11.2	6.1	3.9	3.9	2.6	1.7	1.7
66°	3986.6	1983.8	41.1	18.2	10.0	5.2	3.5	3.0	2.2	1.3	1.3
67.5°	3796.2	1785.2	35.5	15.6	8.2	3.9	2.6	2.6	1.7	0.9	0.9
70°	3280.1	1458.1	28.1	11.7	6.1	3.0	1.7	1.7	1.3	0.9	0.9
72.5°	2500.0	1088.6	22.9	8.7	4.3	2.2	1.3	1.3	1.3	0.9	0.9
75°	1507.8	586.3	17.7	6.5	3.9	1.7	0.9	1.3	1.7	1.3	0.9
77.5°	555.5	199.5	13.8	5.2	3.0	1.7	0.9	0.9	1.7	1.3	1.3
80°	136.3	51.9	10.0	4.3	3.0	1.7	0.9	0.9	1.7	1.7	1.7
82.5°	63.2	22.1	6.9	3.9	3.0	1.7	0.9	0.9	1.3	1.7	1.7
85°	36.3	10.4	5.6	4.3	3.0	1.7	0.9	0.9	1.3	1.7	1.7
87.5°	14.7	5.2	5.2	4.3	3.5	2.2	0.9	0.9	0.9	1.3	1.3
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)