

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: P651724

Luminaire Tested: **GALN-SA2A-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651724  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-840-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4514.5 lumens  
Efficiency: N/A  
Efficacy: 71.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

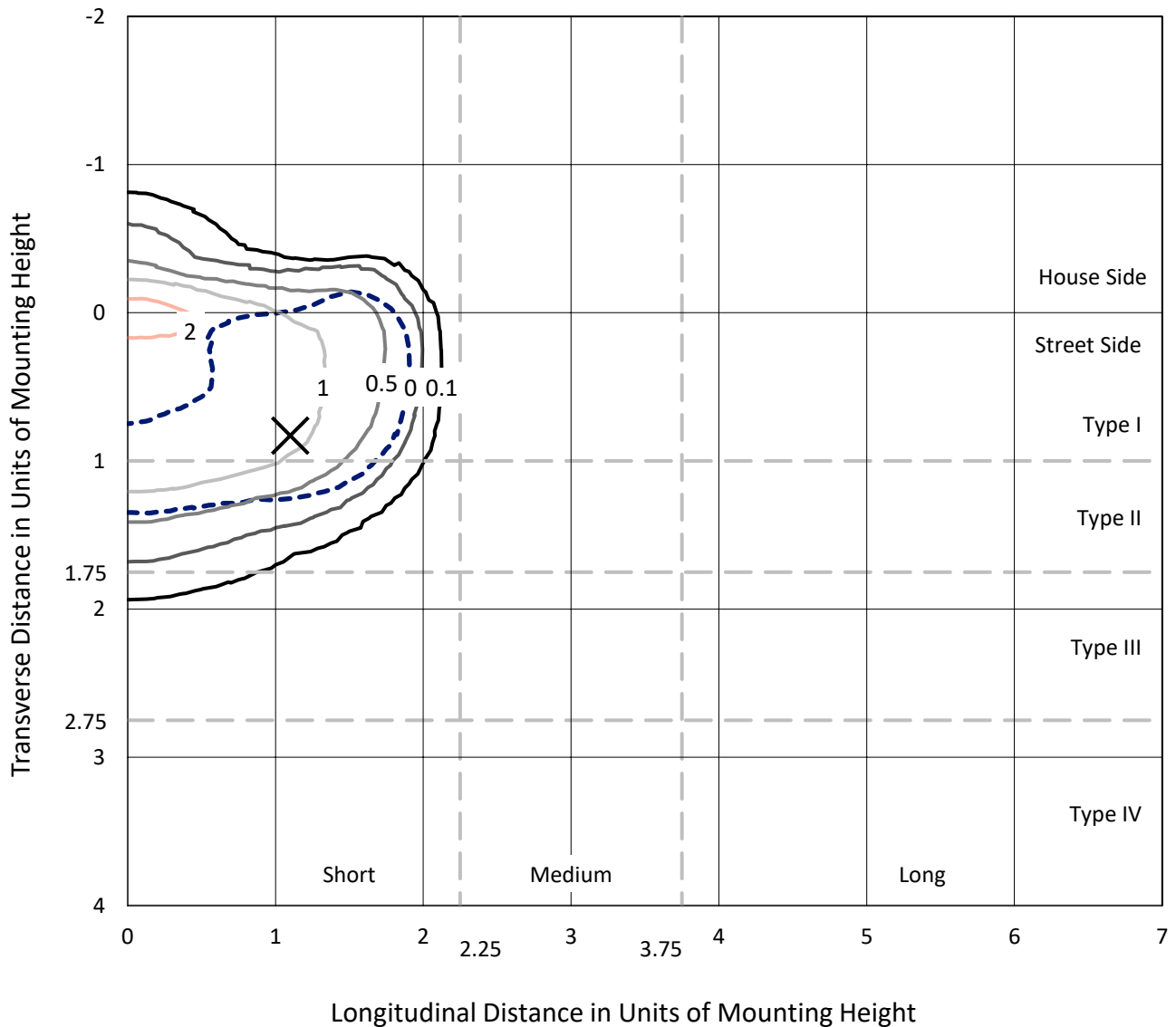
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

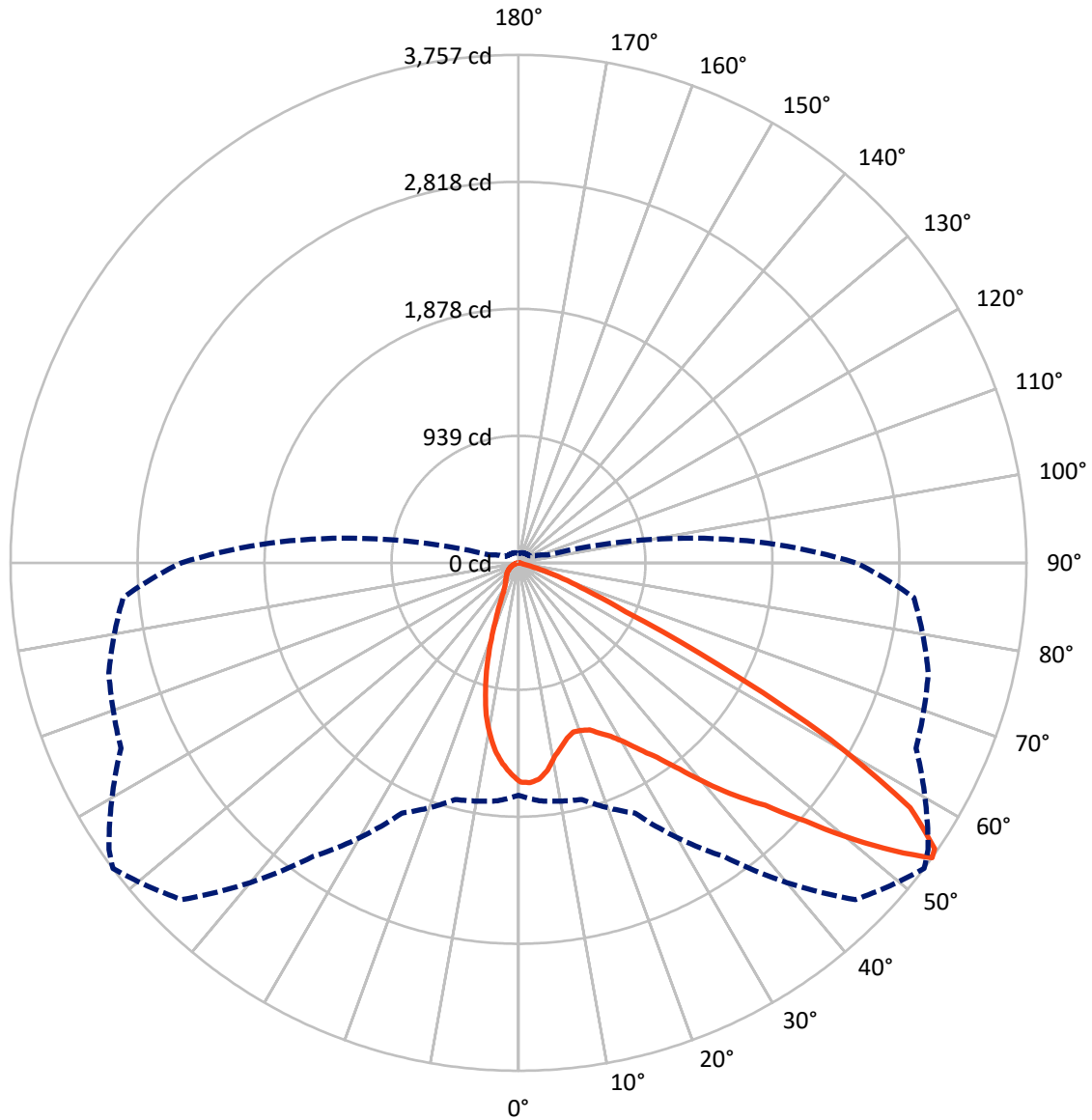
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	746.9	0.0	746.9
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	3767.5	0.0	3767.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	4514.5	0.0	4514.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.1	3.1
10°-20°	319.0	7.1
20°-30°	453.3	10.0
30°-40°	699.6	15.5
40°-50°	1096.9	24.3
50°-60°	1274.2	28.2
60°-70°	481.5	10.7
70°-80°	45.8	1.0
80°-90°	5.1	0.1
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°	4514.5	100.0
0°-180°	4514.5	100.0

**Coefficient of Utilization**

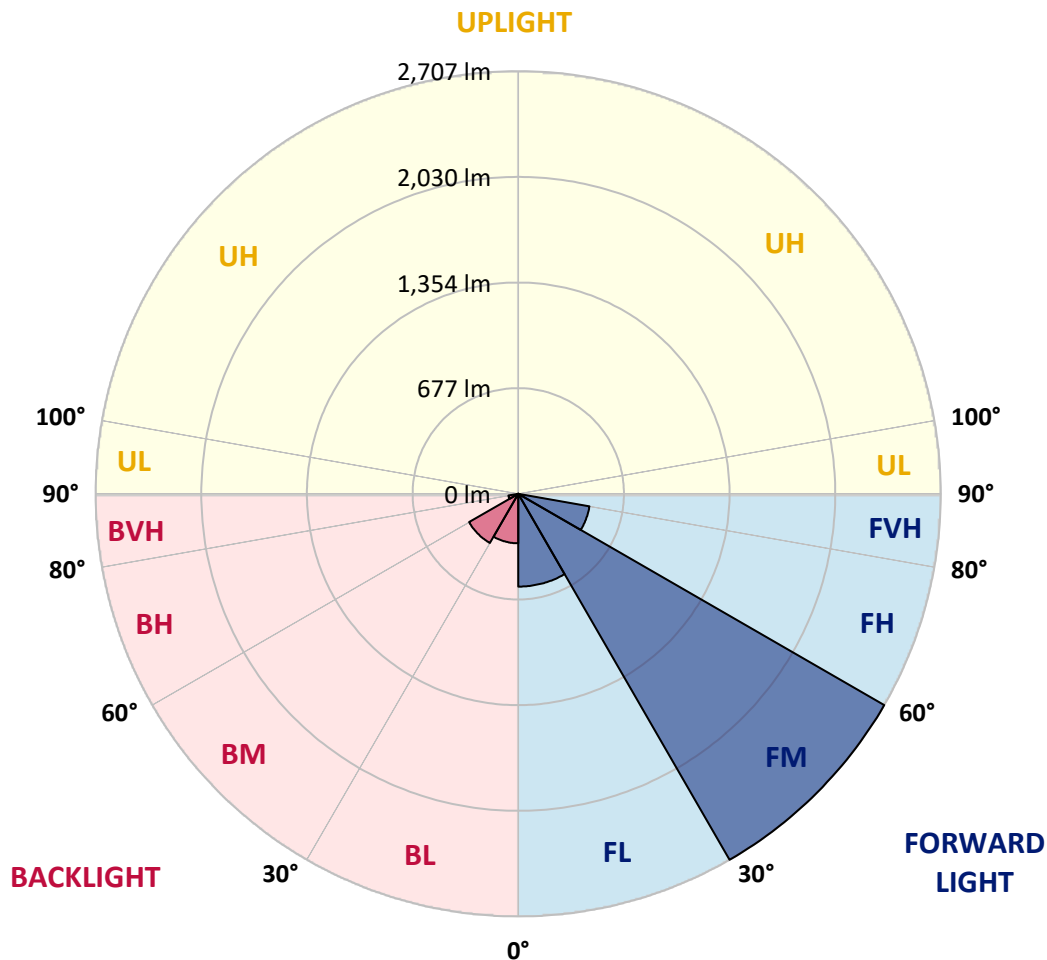


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	594.4	13.2			
FM (30°-60°)	2707.2	60.0			
FH (60°-80°)	463.2	10.3			G0/660
FVH (80°-90°)	2.7	0.1			G0/10
BL (0°-30°)	317.0	7.0	B1/500		
BM (30°-60°)	363.5	8.1	B1/1000		
BH (60°-80°)	64.0	1.4	B0/110		G0/110
BVH (80°-90°)	2.5	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-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5
2.5°	1613.1	1598.8	1613.1	1614.8	1624.9	1634.1	1628.3	1641.7	1634.1	1625.7	1623.2
5°	1482.8	1502.1	1503.0	1533.2	1526.5	1582.0	1606.4	1599.7	1640.9	1638.4	1632.5
7.5°	1365.9	1358.3	1368.4	1403.7	1448.3	1512.2	1547.5	1546.7	1605.6	1647.6	1643.4
10°	1257.4	1256.5	1277.6	1305.3	1343.2	1410.4	1459.2	1483.6	1575.3	1639.2	1648.4
12.5°	1184.2	1180.8	1203.6	1226.3	1286.0	1338.1	1400.3	1412.1	1517.2	1609.8	1624.9
15°	1136.3	1143.8	1145.5	1189.3	1227.1	1296.1	1344.8	1369.2	1490.3	1586.2	1644.2
17.5°	1127.9	1138.0	1138.8	1175.0	1215.3	1273.4	1316.2	1349.0	1467.6	1598.0	1645.1
20°	1144.7	1138.8	1143.8	1166.6	1206.1	1261.6	1323.8	1334.8	1460.1	1603.9	1654.3
22.5°	1192.6	1190.9	1178.3	1196.8	1224.6	1282.6	1341.5	1358.3	1481.9	1634.1	1661.9
25°	1245.6	1254.9	1243.1	1240.6	1259.9	1317.1	1395.3	1417.2	1555.1	1688.8	1685.4
27.5°	1344.8	1335.6	1335.6	1323.8	1318.8	1346.5	1453.3	1489.5	1636.7	1759.5	1712.4
30°	1439.9	1450.0	1442.4	1446.6	1413.0	1410.4	1535.8	1580.3	1781.3	1867.1	1769.5
32.5°	1590.4	1577.0	1589.6	1578.6	1534.1	1488.7	1647.6	1693.9	1956.3	1990.7	1855.3
35°	1715.7	1709.8	1763.7	1762.0	1689.7	1645.1	1766.2	1835.1	2078.2	2138.7	1956.3
37.5°	1894.0	1883.1	1944.5	1973.9	1909.2	1842.7	1936.1	2016.0	2191.7	2257.3	2059.7
40°	2077.4	2105.1	2187.5	2236.3	2167.3	2079.0	2143.8	2168.2	2267.4	2334.7	2130.3
42.5°	2309.5	2349.8	2433.9	2476.0	2470.1	2374.2	2354.9	2354.0	2322.1	2312.8	2182.5
45°	2532.3	2517.2	2646.8	2738.5	2812.5	2784.7	2558.5	2533.2	2408.7	2345.6	2195.9
47.5°	2630.0	2624.9	2713.2	2876.4	3128.7	3163.2	2854.5	2757.0	2555.0	2483.6	2269.1
50°	2503.7	2529.8	2617.4	2798.2	3185.0	3448.3	3217.8	3086.6	2725.8	2651.8	2442.3
52.5°	2091.7	2109.3	2192.6	2422.2	2993.3	3616.5	3566.0	3490.3	3039.5	2916.8	2744.4
54°	1719.9	1767.0	1812.4	2042.9	2651.8	3523.1	3756.9	3698.9	3243.9	3137.1	2934.4
55°	1497.9	1525.7	1558.5	1788.1	2415.4	3365.0	3735.0	3740.1	3381.0	3206.1	3062.2
57.5°	1094.2	1113.6	1079.9	1181.7	1658.5	2732.6	3416.3	3552.6	3566.0	3309.5	3140.5
60°	836.0	844.4	806.5	822.5	1031.2	1875.5	2642.6	2806.6	3217.0	2892.4	2660.3
62.5°	648.4	650.1	649.3	677.0	710.6	1103.5	1652.6	1798.1	2217.8	2053.8	1806.6
65°	477.7	470.1	483.6	567.7	606.4	693.8	870.5	976.5	1205.2	1017.7	727.5
67.5°	309.5	312.0	325.5	422.2	519.7	532.4	535.7	527.3	528.1	291.0	182.5
70°	185.9	190.1	185.9	238.8	371.7	381.8	349.0	340.6	265.8	69.0	68.1
72.5°	110.2	104.3	93.4	102.6	154.7	185.0	166.5	165.7	104.3	40.4	40.4
75°	46.3	42.0	34.5	31.1	41.2	39.5	39.5	35.3	27.8	26.9	25.2
77.5°	9.3	9.3	6.7	7.6	10.1	11.8	14.3	14.3	16.8	16.8	16.0
80°	0.0	0.8	2.5	5.0	7.6	10.9	12.6	12.6	14.3	14.3	11.8
82.5°	0.0	0.8	2.5	5.0	6.7	10.1	12.6	12.6	14.3	15.1	12.6
85°	0.0	0.8	2.5	4.2	6.7	8.4	8.4	7.6	5.9	5.0	3.4
87.5°	0.0	0.0	0.8	1.7	0.8	1.7	1.7	1.7	1.7	1.7	1.7
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°	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5
2.5°	1629.1	1628.3	1608.1	1575.3	1567.7	1540.0	1536.6	1519.8	1529.0	1497.9	1494.5
5°	1615.6	1605.6	1581.2	1560.1	1498.7	1455.0	1420.5	1378.5	1354.1	1358.3	1342.3
7.5°	1635.0	1608.9	1566.0	1492.9	1418.0	1341.5	1300.3	1214.5	1183.4	1137.1	1130.4
10°	1614.8	1595.5	1529.0	1407.9	1304.5	1194.3	1097.6	1002.6	930.2	899.1	892.4
12.5°	1613.1	1579.5	1468.5	1333.9	1184.2	1026.1	885.7	767.0	695.5	655.1	645.9
15°	1587.1	1546.7	1400.3	1219.5	1012.6	815.8	662.7	548.3	493.7	470.1	476.8
17.5°	1589.6	1529.0	1332.2	1098.4	843.5	598.8	452.5	393.6	379.3	385.2	385.2
20°	1587.1	1489.5	1249.8	958.8	645.9	415.5	332.2	311.2	320.4	338.9	334.7
22.5°	1573.6	1471.0	1174.1	811.6	475.2	307.8	266.6	267.4	281.7	304.4	309.5
25°	1583.7	1429.8	1078.2	662.7	346.5	245.6	231.3	237.2	252.3	269.1	272.5
27.5°	1576.1	1400.3	978.2	514.7	253.1	211.1	210.2	217.0	223.7	236.3	236.3
30°	1584.5	1373.4	879.8	382.7	208.6	193.4	190.1	195.1	201.8	204.4	203.5
32.5°	1615.6	1353.3	766.2	285.9	184.2	176.6	176.6	176.6	175.8	179.1	180.0
35°	1683.8	1356.6	666.1	221.2	168.2	162.3	159.8	156.4	154.7	156.4	157.3
37.5°	1757.8	1354.9	562.6	188.4	156.4	151.4	145.5	140.4	139.6	141.3	138.8
40°	1790.6	1370.9	466.8	169.0	145.5	139.6	130.4	126.2	127.0	128.7	127.0
42.5°	1835.1	1376.0	404.5	153.9	135.4	126.2	120.3	115.2	114.4	116.9	116.1
45°	1834.3	1347.4	338.9	145.5	126.2	116.1	108.5	104.3	104.3	106.0	106.8
47.5°	1888.1	1343.2	291.0	137.9	119.4	109.3	100.1	96.7	95.9	95.9	94.2
50°	2013.4	1402.0	254.0	129.5	111.0	101.8	94.2	90.0	86.6	84.9	84.1
52.5°	2258.2	1585.4	225.4	119.4	101.8	94.2	87.5	84.1	79.9	75.7	74.8
54°	2495.3	1774.6	223.7	111.0	94.2	89.1	83.3	81.6	76.5	70.6	69.0
55°	2602.2	1884.8	229.6	104.3	89.1	85.8	80.7	79.1	74.0	67.3	66.4
57.5°	2690.5	1927.7	226.2	86.6	80.7	79.9	75.7	73.2	67.3	58.0	56.3
60°	2165.7	1457.5	162.3	76.5	74.0	72.3	69.0	67.3	59.7	49.6	48.8
62.5°	1368.4	838.5	103.4	67.3	64.8	62.2	58.0	56.3	49.6	39.5	37.0
65°	582.8	347.3	69.8	59.7	55.5	51.3	47.9	45.4	39.5	29.4	28.6
67.5°	151.4	123.6	58.0	52.1	46.3	40.4	37.8	33.6	26.9	20.2	19.3
70°	68.1	62.2	48.8	43.7	37.0	31.1	27.8	23.5	17.7	13.5	12.6
72.5°	40.4	39.5	37.0	32.8	27.8	23.5	20.2	16.0	11.8	7.6	7.6
75°	25.2	24.4	25.2	22.7	19.3	17.7	15.1	10.9	6.7	3.4	3.4
77.5°	15.1	15.1	15.1	14.3	13.5	13.5	10.9	6.7	3.4	0.8	0.8
80°	11.8	11.8	12.6	11.8	11.8	11.8	9.3	5.0	1.7	0.0	0.0
82.5°	11.8	12.6	14.3	13.5	11.8	10.1	8.4	5.0	1.7	0.0	0.0
85°	3.4	2.5	4.2	5.9	8.4	7.6	5.9	4.2	1.7	0.0	0.0
87.5°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.0	0.0
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)