

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: P526764

Luminaire Tested: **GALN-SA1D-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526764  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-727-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5715 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

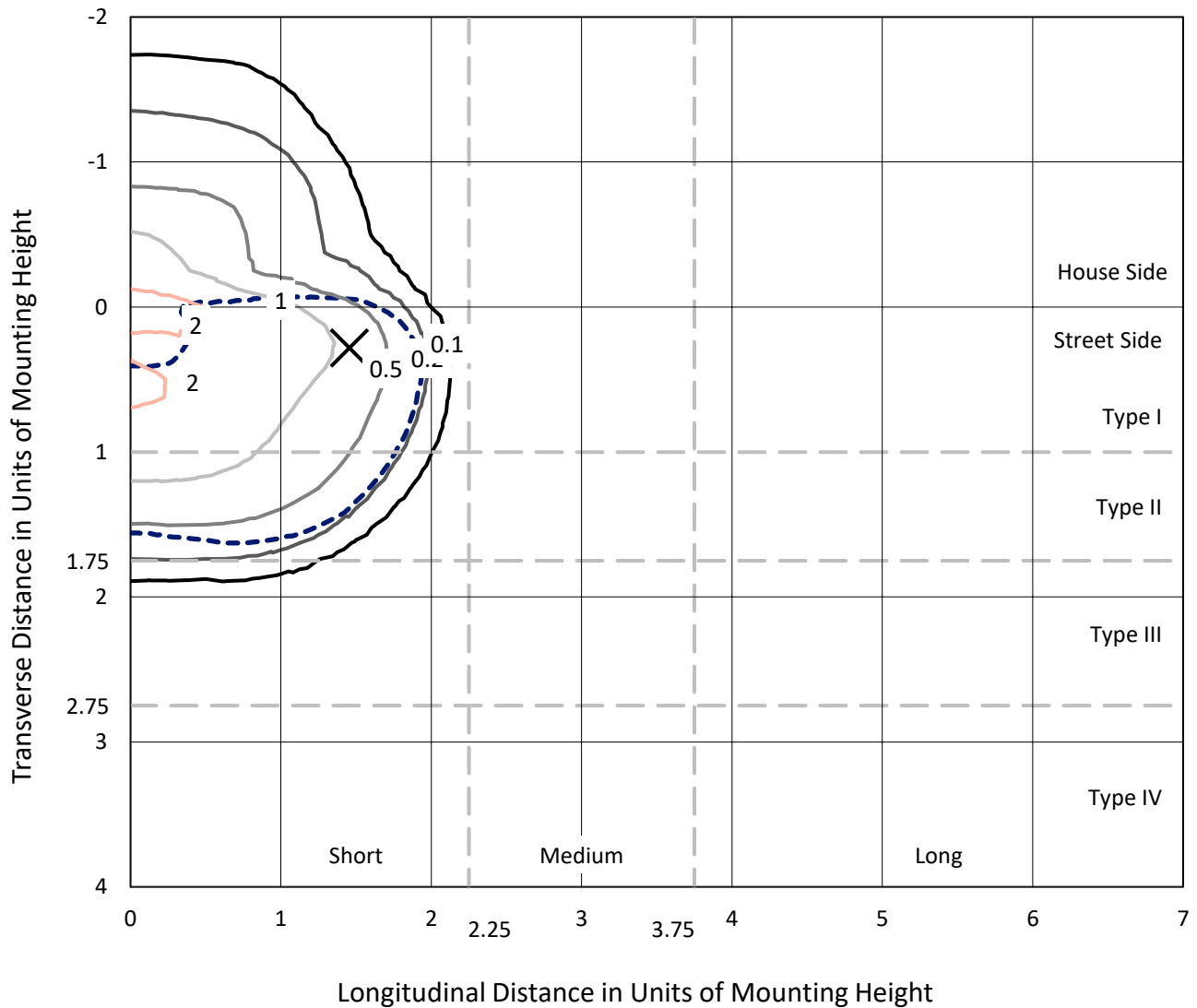
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

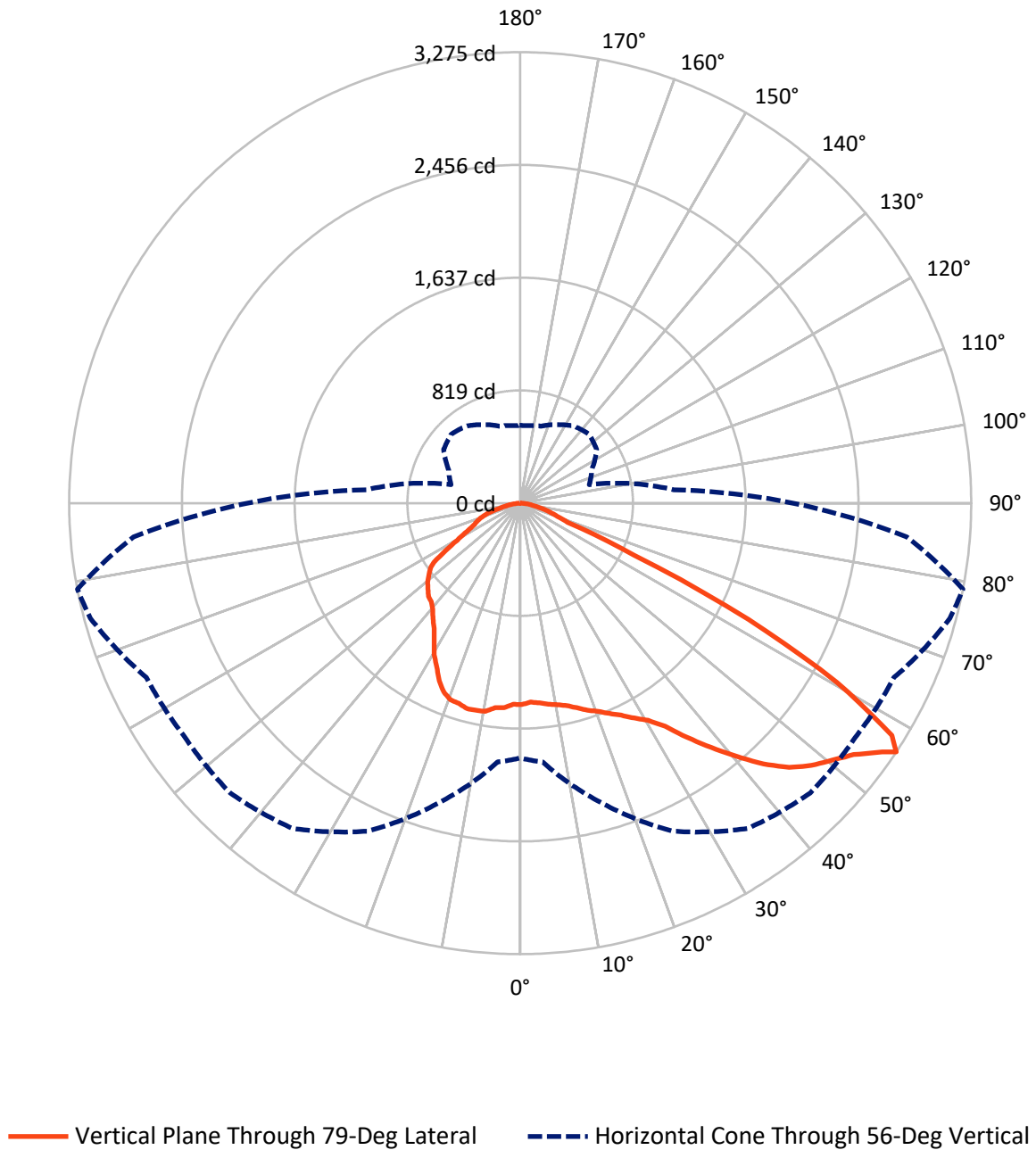
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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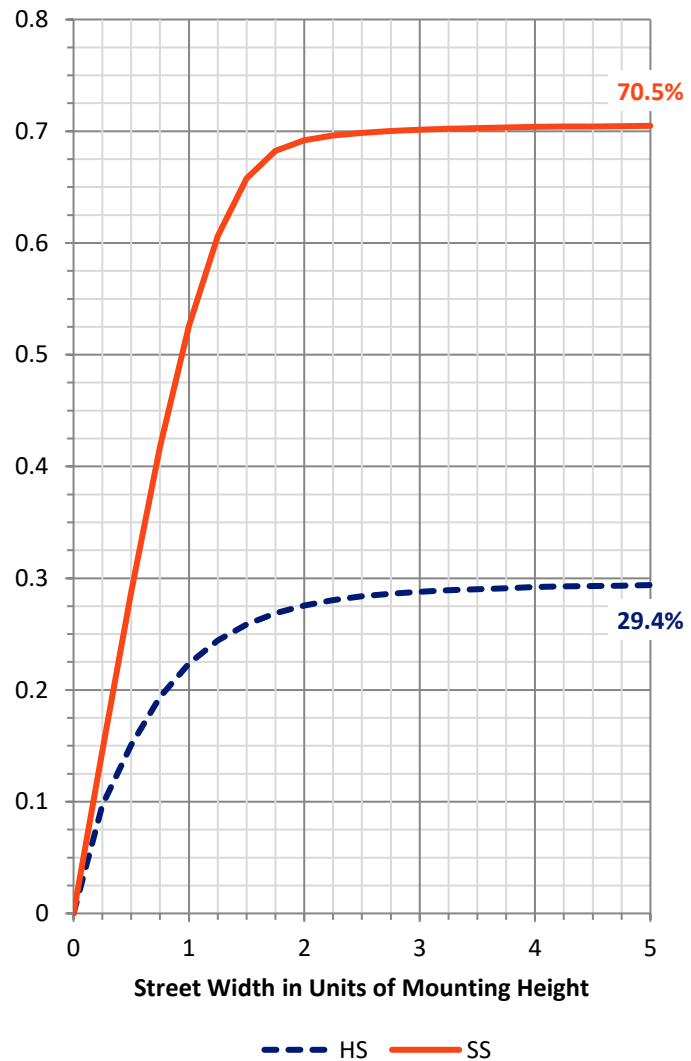
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1687.8	0.0	1687.8
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	4027.2	0.0	4027.2
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	5715.0	0.0	5715.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.9	2.3
10°-20°	363.8	6.4
20°-30°	622.5	10.9
30°-40°	954.0	16.7
40°-50°	1289.3	22.6
50°-60°	1480.8	25.9
60°-70°	675.0	11.8
70°-80°	166.4	2.9
80°-90°	30.2	0.5
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°	5715.0	100.0
0°-180°	5715.0	100.0

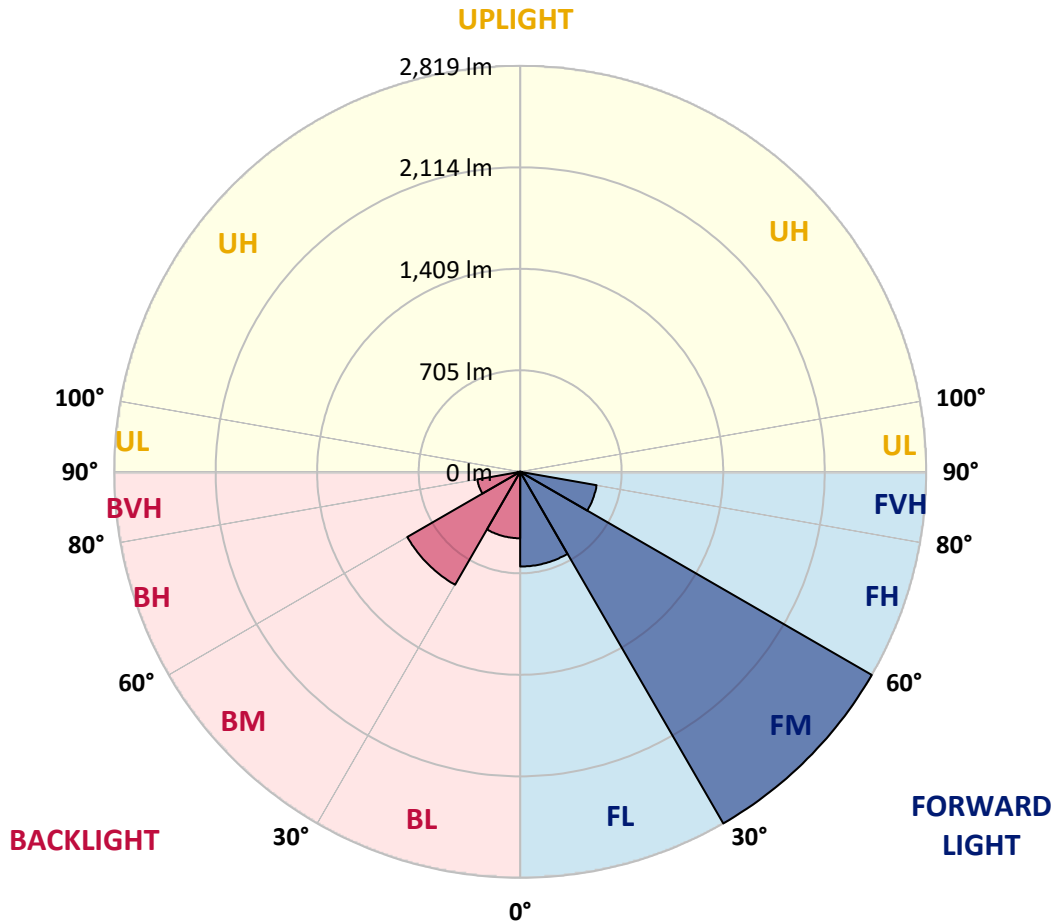


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	657.6	11.5			
FM (30°-60°)	2818.8	49.3			
FH (60°-80°)	538.8	9.4			G0/660
FVH (80°-90°)	12.1	0.2			G1/100
BL (0°-30°)	461.7	8.1	B1/500		
BM (30°-60°)	905.3	15.8	B1/1000		
BH (60°-80°)	302.6	5.3	B1/500		G1/500
BVH (80°-90°)	18.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2
2.5°	1391.1	1387.5	1396.0	1402.4	1410.3	1420.2	1425.2	1428.1	1453.0	1446.6	1465.8
5°	1361.2	1351.9	1358.3	1363.3	1376.8	1388.9	1402.4	1423.8	1446.6	1456.5	1480.0
7.5°	1334.8	1329.8	1328.4	1332.0	1350.5	1366.1	1389.6	1421.0	1458.0	1474.3	1487.9
10°	1291.4	1284.3	1294.9	1318.4	1323.4	1356.2	1383.2	1428.1	1460.1	1488.6	1528.4
12.5°	1272.2	1265.0	1267.2	1280.7	1315.6	1346.9	1378.9	1429.5	1497.1	1508.5	1561.9
15°	1302.8	1295.7	1297.8	1294.2	1327.7	1344.1	1394.6	1458.0	1522.8	1542.0	1598.9
17.5°	1372.5	1373.3	1364.0	1356.2	1348.3	1383.2	1418.1	1475.1	1532.7	1581.1	1623.8
20°	1505.7	1482.2	1463.7	1419.5	1407.4	1422.4	1466.5	1521.3	1573.3	1613.2	1661.6
22.5°	1608.2	1610.3	1584.0	1511.4	1485.0	1491.4	1529.2	1574.0	1631.0	1659.4	1715.0
25°	1757.0	1742.0	1713.5	1655.9	1596.8	1601.8	1629.5	1670.1	1685.8	1705.7	1766.2
27.5°	1892.9	1897.2	1841.0	1786.9	1713.5	1699.3	1749.1	1756.3	1729.9	1767.6	1788.3
30°	2031.1	2027.5	1990.5	1927.1	1855.2	1858.1	1880.1	1845.2	1808.9	1829.6	1843.8
32.5°	2174.1	2133.6	2132.1	2075.2	2020.4	1994.0	1967.0	1984.1	1927.8	1932.1	1918.6
35°	2288.8	2294.5	2261.7	2221.1	2194.1	2147.8	2073.8	2104.4	2093.7	2088.7	2030.3
37.5°	2372.1	2350.0	2366.4	2352.8	2327.2	2269.5	2192.7	2221.8	2226.8	2251.0	2183.4
40°	2440.4	2431.1	2474.6	2481.7	2463.9	2339.3	2201.2	2288.0	2362.8	2415.5	2335.0
42.5°	2473.1	2493.1	2538.6	2593.5	2553.6	2420.5	2245.3	2338.6	2505.2	2588.5	2478.8
45°	2517.3	2491.6	2559.3	2659.7	2660.4	2488.8	2288.0	2406.9	2616.2	2737.3	2577.1
47.5°	2472.4	2485.2	2555.0	2682.4	2715.2	2560.7	2403.4	2503.8	2738.7	2846.2	2668.2
50°	2372.1	2397.7	2525.1	2657.5	2756.5	2636.9	2535.8	2608.4	2851.9	2933.7	2683.2
52.5°	2267.4	2281.6	2481.0	2676.7	2775.0	2735.1	2713.1	2752.9	2990.0	3032.7	2701.7
55°	1982.6	2050.3	2335.0	2668.2	2865.4	2912.4	2895.3	2953.7	3146.6	3189.3	2802.7
56°	1850.9	1886.5	2247.5	2628.3	2883.2	2977.2	2968.6	2995.0	3229.9	3274.7	2818.4
57.5°	1607.5	1610.3	1916.4	2451.8	2816.3	2996.4	2987.8	3008.5	3213.5	3182.9	2681.0
60°	1005.9	1050.1	1304.2	1885.8	2394.8	2780.0	2828.4	2662.5	2709.5	2644.7	2085.9
62.5°	521.1	514.7	683.4	1102.7	1589.7	1990.5	2035.3	2027.5	1954.9	1860.2	1362.6
65°	259.8	261.3	357.4	546.0	814.4	1042.2	1167.5	1181.0	988.1	909.1	646.4
67.5°	188.7	195.8	257.0	333.9	383.7	429.3	526.1	516.1	390.8	371.6	344.6
70°	146.7	153.1	208.6	254.9	231.4	231.4	252.0	260.6	278.4	286.2	295.4
72.5°	106.8	111.8	159.5	175.8	151.6	163.0	188.7	208.6	227.1	229.9	240.6
75°	73.3	77.6	104.6	96.8	91.1	112.5	138.1	156.6	170.1	177.3	183.7
77.5°	47.7	49.1	59.8	50.5	58.4	72.6	89.7	105.4	118.9	124.6	126.0
80°	21.4	23.5	25.6	32.0	40.6	52.0	64.1	76.9	85.4	87.6	91.8
82.5°	12.1	12.1	15.7	22.8	29.9	37.7	46.3	55.5	65.5	67.6	66.9
85°	6.4	6.4	9.3	13.5	18.5	22.1	21.4	22.1	23.5	27.1	26.3
87.5°	2.1	2.1	2.8	2.8	3.6	4.3	3.6	5.0	6.4	6.4	6.4
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°	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2	1462.2
2.5°	1460.1	1466.5	1458.0	1476.5	1476.5	1472.9	1455.1	1460.8	1465.1	1465.1	1468.6
5°	1487.9	1485.7	1491.4	1469.4	1455.8	1450.9	1421.7	1407.4	1395.3	1394.6	1383.9
7.5°	1503.5	1497.8	1495.7	1479.3	1419.5	1383.2	1320.6	1284.3	1276.4	1248.7	1259.4
10°	1528.4	1539.1	1528.4	1439.5	1356.2	1272.9	1211.7	1155.4	1133.3	1115.5	1104.9
12.5°	1579.7	1574.7	1512.8	1392.5	1275.7	1176.8	1085.6	1026.6	1004.5	988.8	987.4
15°	1623.1	1598.2	1503.5	1318.4	1150.4	1045.1	970.3	928.3	918.4	919.8	926.2
17.5°	1638.1	1621.0	1455.1	1241.6	1057.2	933.3	898.4	892.0	901.3	911.9	914.8
20°	1661.6	1634.5	1435.2	1136.9	941.8	863.5	861.4	884.2	901.3	916.9	919.1
22.5°	1710.7	1642.4	1370.4	1037.9	862.8	842.9	863.5	882.8	909.1	921.9	910.5
25°	1724.9	1625.3	1279.3	919.1	813.0	830.1	852.1	878.5	897.0	904.1	909.1
27.5°	1737.0	1598.9	1156.1	840.0	797.3	829.4	852.1	874.2	884.2	890.6	896.3
30°	1771.2	1591.1	1049.3	787.4	787.4	815.1	844.3	850.0	863.5	871.4	881.3
32.5°	1788.3	1537.0	939.7	753.9	777.4	822.2	824.4	835.1	835.8	842.2	831.5
35°	1833.1	1498.5	837.9	729.7	781.7	815.1	825.8	819.4	784.5	767.4	771.0
37.5°	1865.9	1479.3	764.6	726.8	782.4	823.0	828.7	780.2	743.9	715.5	722.6
40°	1954.2	1431.6	709.1	721.9	788.8	831.5	815.8	763.2	697.7	668.5	663.5
42.5°	2021.8	1397.5	674.2	716.2	793.8	843.6	809.4	729.0	662.1	635.0	642.1
45°	2100.1	1389.6	655.7	717.6	802.3	850.0	801.6	702.6	631.5	620.8	618.6
47.5°	2127.9	1333.4	635.7	705.5	800.2	847.9	775.3	682.7	620.1	621.5	627.2
50°	2081.6	1275.7	620.8	680.6	785.9	828.7	734.0	656.4	613.7	631.5	641.4
52.5°	2022.5	1216.6	590.2	647.1	756.7	798.8	714.7	654.9	607.3	601.6	603.7
55°	2040.3	1168.2	547.5	601.6	709.8	743.2	693.4	641.4	591.6	570.2	577.4
56°	1982.6	1118.4	519.7	573.1	677.7	707.6	682.7	629.3	578.8	564.5	564.5
57.5°	1819.6	951.1	483.4	527.5	610.1	645.7	662.1	622.2	564.5	539.6	540.3
60°	1341.9	676.3	433.5	464.9	505.4	533.9	610.1	602.3	528.9	511.9	505.4
62.5°	827.2	494.1	398.0	410.1	430.7	454.2	532.5	545.3	491.2	472.7	468.4
65°	463.4	378.0	370.9	375.9	385.8	398.0	442.1	470.6	433.5	405.1	403.6
67.5°	338.9	338.2	343.8	348.1	352.4	352.4	363.1	374.5	369.5	346.7	344.6
70°	301.1	303.3	307.5	308.3	309.7	304.7	296.2	292.6	298.3	284.0	281.2
72.5°	248.5	255.6	260.6	261.3	253.4	247.0	235.6	223.5	219.3	216.4	215.7
75°	190.8	195.8	197.9	197.2	194.3	185.1	171.6	159.5	151.6	143.1	147.4
77.5°	128.9	136.0	139.5	139.5	135.3	121.0	114.6	105.4	97.5	88.3	89.7
80°	90.4	95.4	101.1	100.4	93.3	86.1	76.9	68.3	61.9	54.8	54.1
82.5°	67.6	70.5	73.3	71.9	66.9	59.8	53.4	45.6	38.4	33.5	33.5
85°	24.2	26.3	32.0	33.5	36.3	36.3	30.6	25.6	20.6	17.1	17.1
87.5°	7.1	7.1	7.8	7.8	7.1	7.8	6.4	7.1	7.8	5.0	5.0
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)