

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: P945930

Luminaire Tested: **GALN-SB1D-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-727-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9228 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 79.6
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

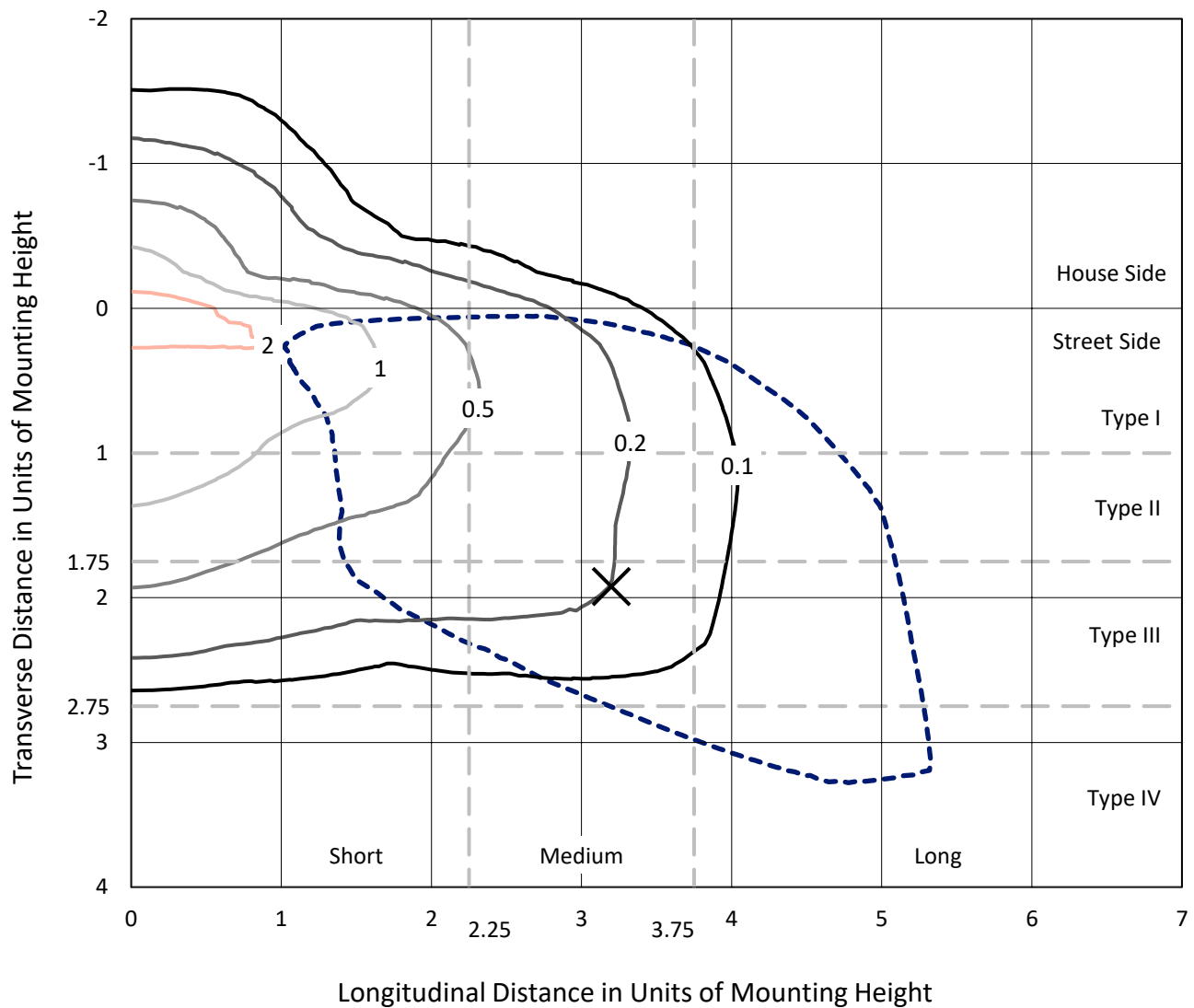


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Iso-Footcandle Lines of Horizontal Illumination

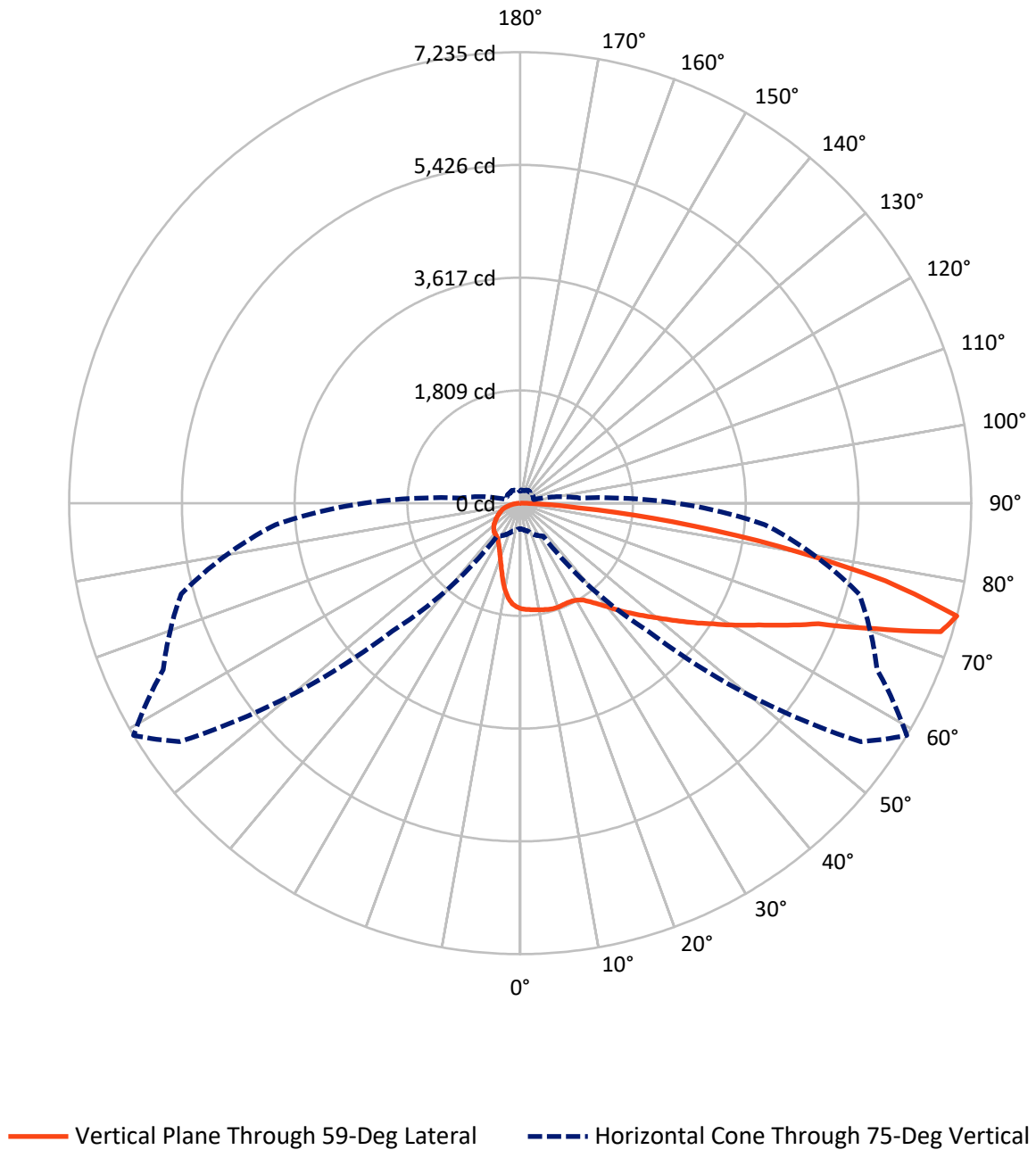
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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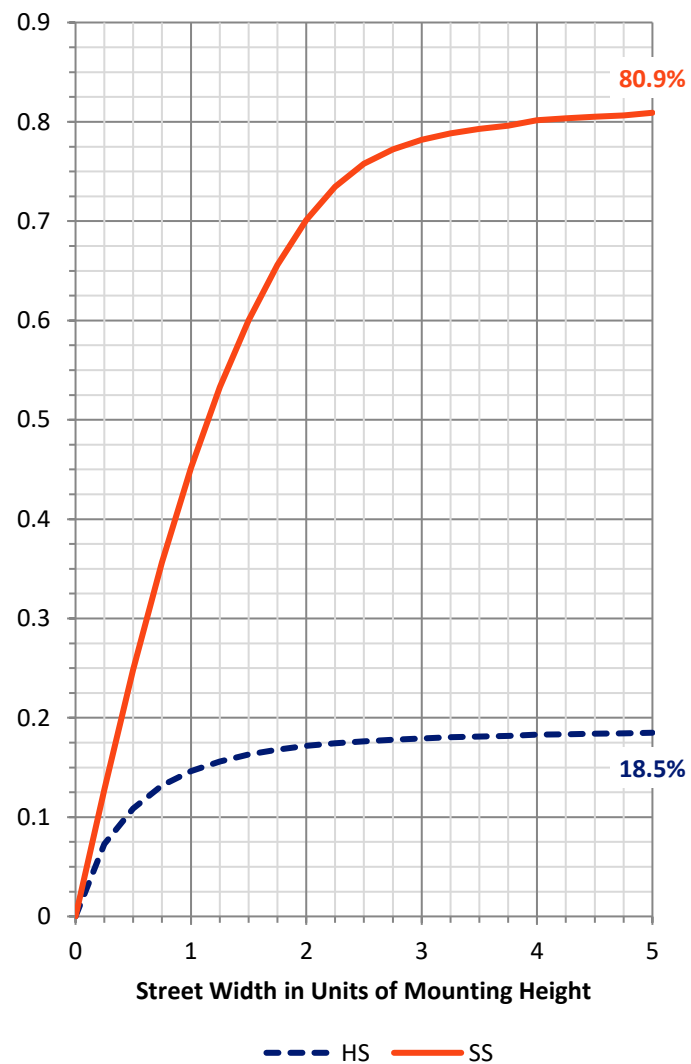
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1730.8	0.0	1730.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	7497.2	0.0	7497.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	9228.0	0.0	9228.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	1.6
10°-20°	388.2	4.2
20°-30°	589.6	6.4
30°-40°	876.5	9.5
40°-50°	1303.5	14.1
50°-60°	1769.3	19.2
60°-70°	2160.1	23.4
70°-80°	1695.2	18.4
80°-90°	293.6	3.2
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°	9228.0	100.0
0°-180°	9228.0	100.0

Coefficient of Utilization



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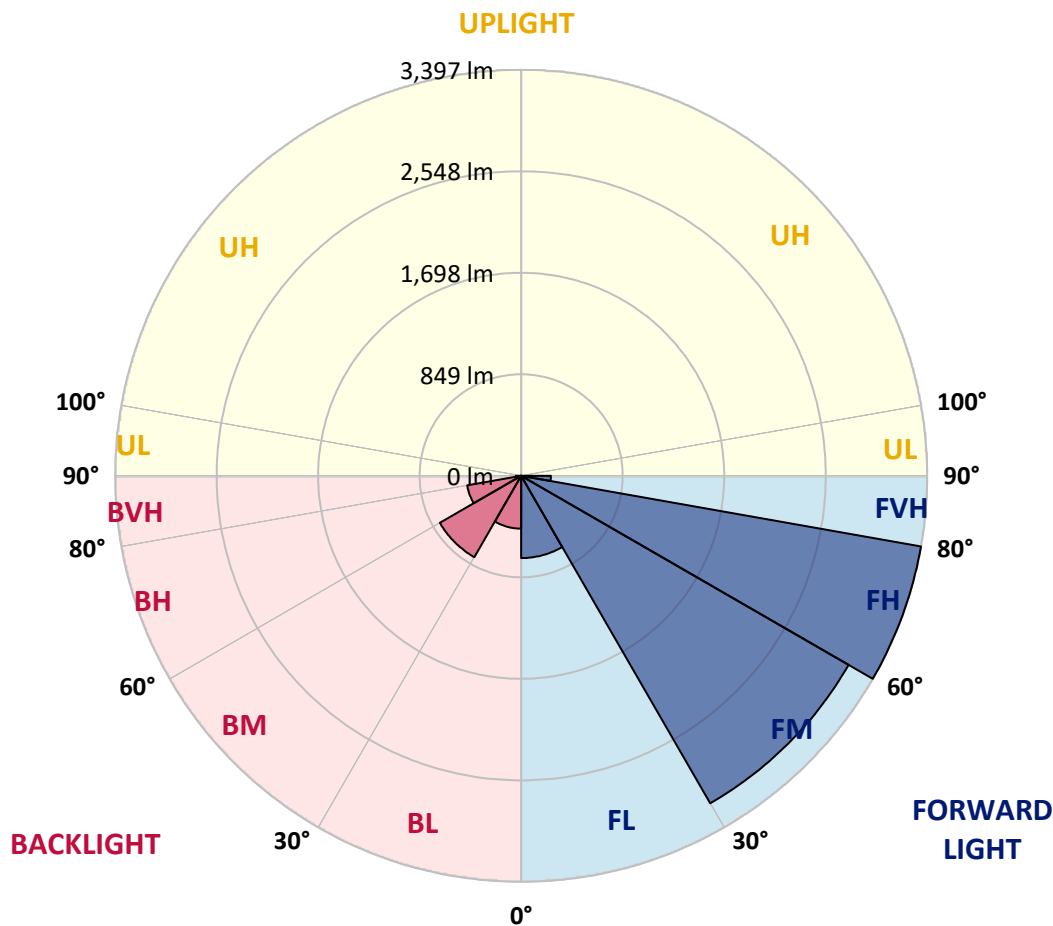
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	688.0	7.5			
FM	(30°-60°)	3163.7	34.3			
FH	(60°-80°)	3396.7	36.8			G2/5000
FVH	(80°-90°)	248.7	2.7			G3/500
BL	(0°-30°)	441.7	4.8	B1/500		
BM	(30°-60°)	785.6	8.5	B1/1000		
BH	(60°-80°)	458.5	5.0	B1/500		G1/500
BVH	(80°-90°)	44.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8
2.5°	1708.2	1702.2	1708.2	1705.7	1704.7	1702.7	1703.2	1706.7	1704.7	1707.2	1698.7
5°	1696.8	1693.3	1699.2	1697.8	1704.2	1705.2	1711.6	1715.6	1718.1	1718.6	1712.1
7.5°	1677.9	1674.4	1682.9	1689.8	1703.7	1707.7	1721.1	1727.5	1731.0	1737.0	1727.5
10°	1608.9	1607.4	1628.3	1654.6	1687.3	1707.7	1728.0	1739.0	1744.4	1760.3	1749.4
12.5°	1486.8	1488.8	1516.1	1566.7	1632.2	1697.8	1736.0	1751.9	1760.3	1780.2	1775.2
15°	1370.1	1369.6	1399.4	1453.5	1545.3	1654.1	1739.9	1767.2	1781.6	1810.9	1807.0
17.5°	1302.6	1300.6	1321.5	1362.7	1448.1	1587.0	1730.0	1775.7	1806.5	1843.2	1839.7
20°	1290.2	1286.2	1297.1	1317.5	1378.1	1513.6	1704.2	1775.7	1826.3	1874.0	1872.0
22.5°	1335.4	1328.9	1324.4	1322.0	1348.8	1453.0	1674.9	1769.7	1855.6	1918.2	1914.7
25°	1426.2	1416.3	1393.4	1371.1	1363.2	1425.7	1649.1	1768.2	1899.3	1977.7	1964.8
27.5°	1573.1	1560.7	1514.6	1461.0	1412.8	1439.6	1637.7	1777.2	1947.4	2040.8	2015.0
30°	1755.3	1741.9	1683.9	1601.4	1515.1	1491.2	1652.1	1803.5	2009.0	2124.7	2074.0
32.5°	1918.7	1903.8	1854.1	1770.2	1653.6	1580.6	1697.8	1853.6	2105.8	2241.3	2162.9
35°	2063.6	2046.2	2001.6	1924.1	1823.3	1706.2	1780.2	1942.5	2243.3	2431.0	2283.5
37.5°	2205.6	2185.2	2136.6	2054.7	1984.2	1873.5	1893.8	2056.7	2426.0	2661.3	2443.4
40°	2364.4	2335.2	2276.1	2195.2	2126.7	2069.6	2043.3	2196.7	2611.7	2918.4	2642.9
42.5°	2518.3	2490.5	2420.0	2351.0	2265.2	2248.8	2216.5	2360.5	2814.7	3200.9	2845.5
45°	2684.1	2650.9	2565.5	2478.1	2424.0	2367.9	2384.3	2524.3	3013.8	3488.8	3057.9
47.5°	2839.5	2802.3	2701.5	2604.2	2574.4	2468.2	2538.2	2704.5	3220.8	3780.7	3268.4
50°	2923.4	2886.7	2802.8	2714.9	2691.6	2591.8	2705.0	2902.6	3437.7	4071.6	3470.5
52.5°	2993.4	2953.7	2844.0	2795.3	2788.4	2726.3	2910.5	3128.9	3654.6	4328.8	3665.6
55°	3067.9	3023.7	2883.7	2840.0	2871.8	2877.2	3154.2	3385.6	3884.0	4579.5	3849.7
57.5°	3153.7	3097.6	2921.9	2877.7	2953.2	3054.0	3434.2	3651.7	4109.3	4811.8	4013.5
60°	3234.7	3178.1	2995.4	2937.8	3041.1	3259.0	3755.4	3973.8	4364.5	5018.8	4168.4
62.5°	3250.5	3203.9	3054.0	3053.5	3160.2	3498.3	4135.7	4299.0	4587.4	5223.3	4307.4
65°	2975.5	2946.2	2857.4	3049.0	3331.0	3842.8	4559.1	4715.0	4870.9	5402.0	4429.5
67.5°	2264.7	2268.6	2262.2	2632.0	3193.0	4337.7	5172.2	5160.3	5220.8	5602.6	4570.0
70°	1035.5	1058.9	1210.8	1816.9	2558.0	4394.8	6185.9	6031.5	5660.2	5862.2	4691.6
72.5°	559.5	577.3	639.4	880.1	1537.9	3907.3	6943.4	7053.1	6244.4	6036.9	4558.1
75°	410.5	420.5	463.7	559.5	645.8	2904.0	6671.9	7234.8	6317.4	5629.4	3936.1
77.5°	307.3	311.8	347.0	443.3	330.6	1531.0	5331.0	5991.8	5408.0	4625.1	2907.5
80°	222.9	227.9	254.2	332.6	231.8	560.0	3660.6	4205.7	3703.8	2948.2	1449.0
82.5°	153.9	155.9	167.3	226.4	161.8	217.4	2077.0	2466.2	2067.6	1034.5	391.2
85°	92.8	95.3	100.3	132.0	91.8	103.3	896.5	927.3	618.0	247.2	121.6
87.5°	38.2	40.7	44.7	55.6	36.2	28.8	147.9	185.7	115.7	72.5	37.7
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°	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8
2.5°	1696.3	1692.8	1683.4	1670.4	1658.5	1643.6	1637.2	1631.7	1626.8	1617.3	1612.9
5°	1706.7	1697.3	1671.9	1639.2	1601.9	1561.2	1521.5	1494.2	1470.9	1453.5	1439.1
7.5°	1722.6	1704.7	1658.5	1591.5	1506.1	1418.8	1339.8	1283.7	1241.5	1226.2	1199.3
10°	1739.0	1717.6	1637.2	1519.0	1371.6	1237.1	1132.3	1074.7	1041.0	1030.1	1013.2
12.5°	1758.3	1727.0	1603.9	1418.3	1221.2	1073.8	982.4	948.7	931.3	925.3	926.8
15°	1786.6	1735.0	1553.8	1292.2	1077.7	954.6	895.5	872.2	863.3	862.8	864.8
17.5°	1808.0	1736.5	1475.9	1157.2	967.5	882.6	834.0	825.0	831.0	839.9	843.4
20°	1831.8	1723.1	1373.6	1034.0	890.1	819.6	799.2	805.2	819.6	832.5	837.0
22.5°	1848.7	1698.7	1250.0	938.2	823.1	783.3	782.4	794.8	802.7	809.2	812.6
25°	1863.6	1657.5	1118.9	857.8	768.0	761.5	772.4	768.5	763.0	768.5	771.9
27.5°	1874.5	1592.5	1001.8	787.3	729.2	746.6	740.2	731.2	730.7	733.7	738.7
30°	1871.0	1505.6	905.5	720.3	701.9	718.8	703.4	701.9	700.4	701.9	707.4
32.5°	1871.0	1406.8	831.5	674.1	684.6	678.1	676.6	673.1	667.2	666.7	673.1
35°	1881.4	1308.1	768.0	649.3	670.2	654.8	655.8	647.3	634.9	629.0	634.9
37.5°	1902.8	1228.6	704.9	637.4	644.8	644.4	640.4	626.0	604.1	585.3	591.7
40°	1954.4	1205.3	661.7	631.9	632.9	638.9	628.5	600.7	551.0	520.2	524.2
42.5°	2035.3	1244.5	652.3	618.5	625.0	630.9	610.6	546.1	510.8	492.4	492.4
45°	2138.1	1313.0	672.6	599.2	606.1	616.6	556.0	525.2	509.3	509.8	512.3
47.5°	2268.1	1385.0	710.4	582.3	578.8	584.8	519.7	500.9	479.0	484.5	498.4
50°	2418.5	1458.0	746.1	559.5	548.5	529.2	496.4	478.5	450.7	437.8	441.3
52.5°	2581.4	1528.5	760.5	531.7	515.8	493.4	480.5	458.7	424.9	403.6	403.1
55°	2735.8	1592.5	744.6	498.4	483.0	465.6	463.7	450.3	414.0	384.2	384.2
57.5°	2881.7	1646.1	704.9	464.6	449.8	439.3	452.7	446.3	400.6	362.4	360.4
60°	3005.3	1682.9	647.3	430.4	420.0	414.5	434.9	432.9	381.7	339.1	337.6
62.5°	3103.6	1697.3	583.8	397.6	395.1	385.2	410.0	410.0	357.9	316.2	314.7
65°	3180.6	1683.4	519.3	365.4	370.3	355.4	379.8	376.8	332.6	295.9	293.9
67.5°	3248.6	1637.7	447.8	333.6	345.0	326.1	348.0	341.0	304.8	275.5	273.5
70°	3278.8	1531.5	366.4	301.8	315.7	297.4	316.2	303.3	273.5	253.7	249.7
72.5°	3035.6	1272.8	288.4	268.6	280.5	265.6	282.0	267.1	239.8	230.8	223.4
75°	2511.4	955.1	221.9	232.3	241.3	229.8	240.8	229.8	205.0	211.5	193.1
77.5°	1823.8	644.8	169.8	194.1	198.1	192.1	201.5	189.1	166.8	165.3	157.9
80°	907.0	377.8	133.0	153.4	151.9	147.9	158.9	152.9	134.0	142.0	140.5
82.5°	262.6	161.8	96.8	107.7	104.7	105.7	113.7	116.7	174.7	173.2	177.2
85°	82.4	63.5	58.1	60.1	57.1	58.6	67.0	133.0	123.1	72.0	77.9
87.5°	21.3	21.8	14.4	15.4	15.9	18.9	21.3	80.9	38.7	25.3	26.8
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)