

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: P946990

Luminaire Tested: **GALN-SB2C-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-722-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12701 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

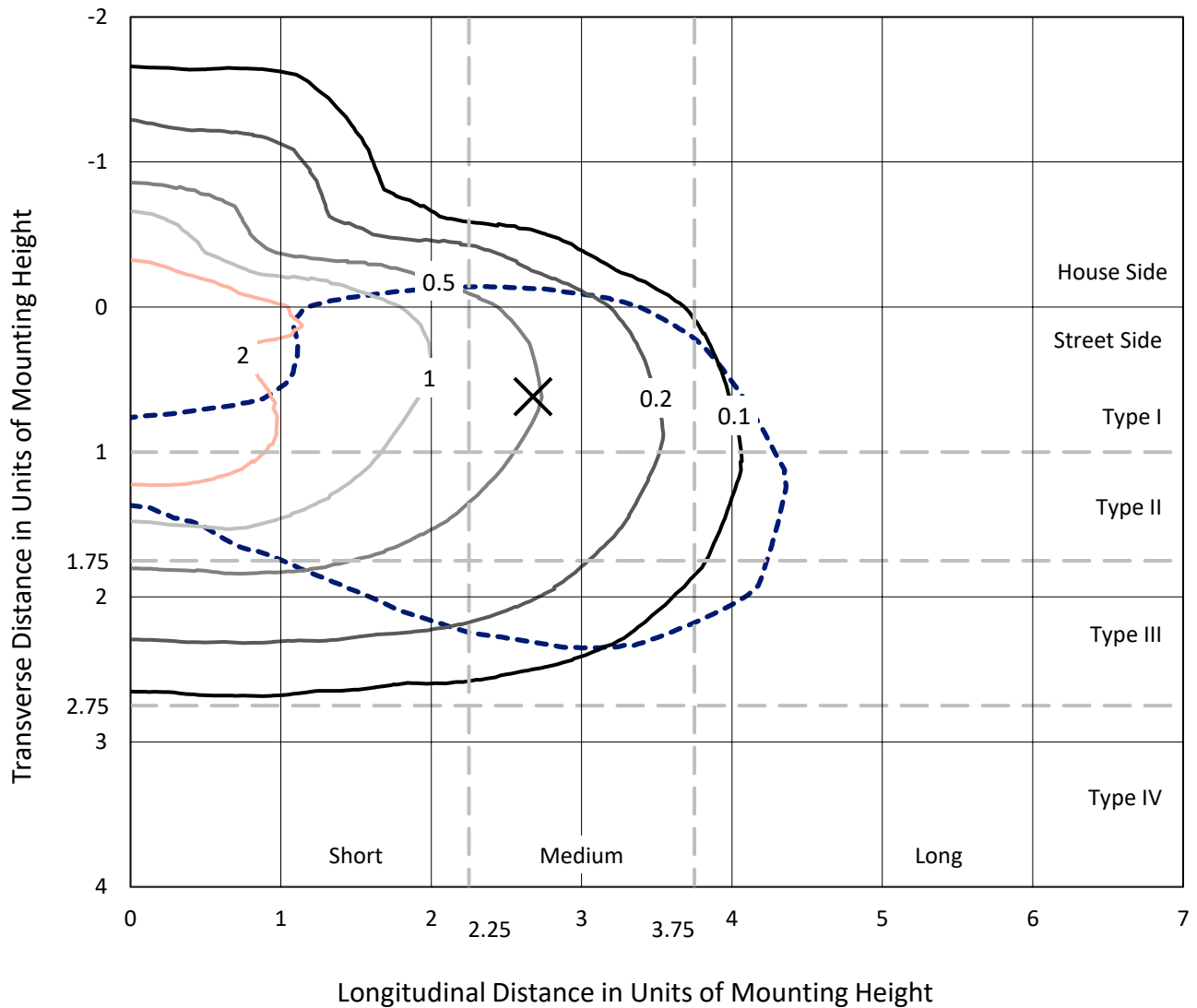
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

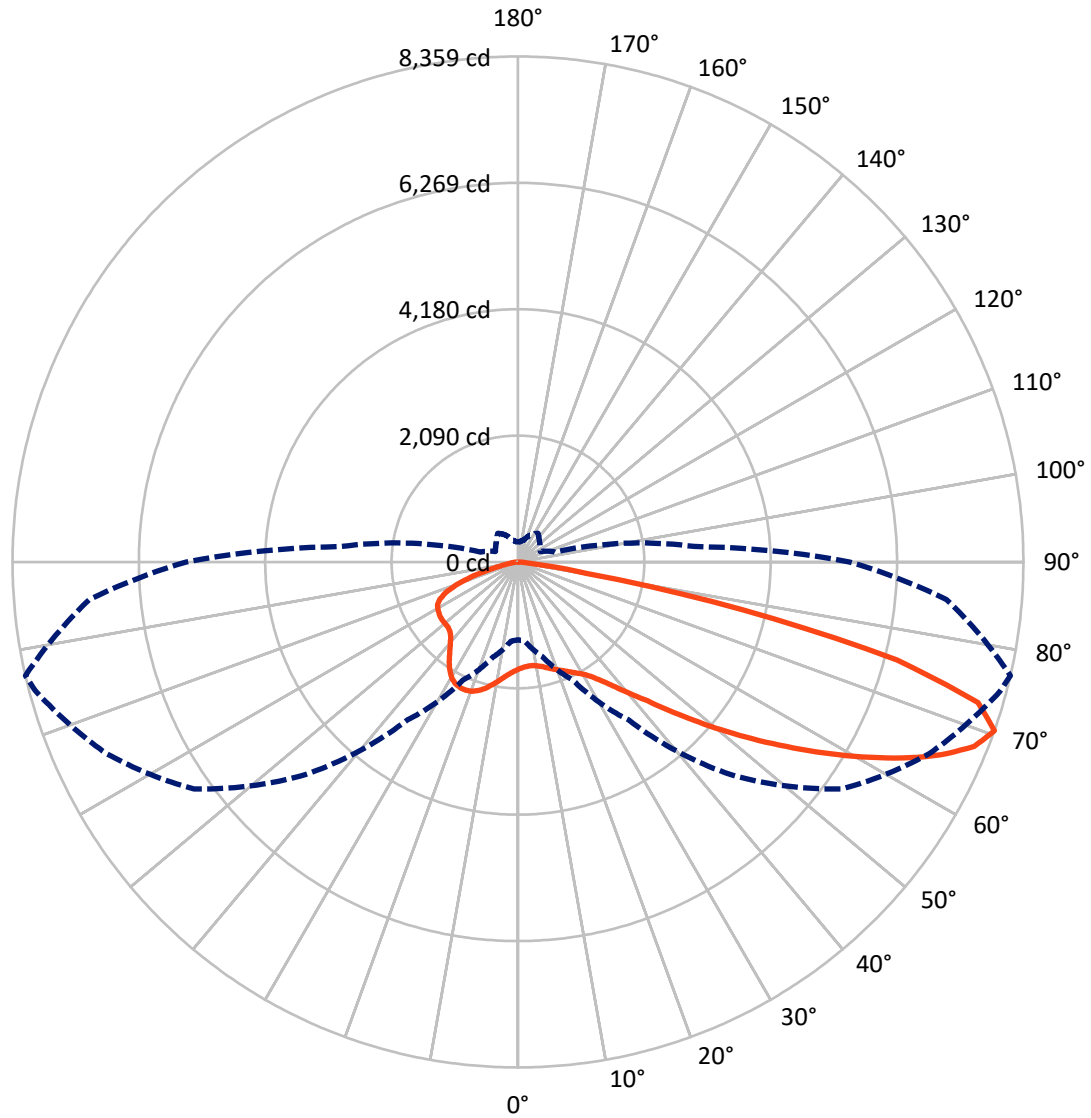
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2781.3	0.0	2781.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	9919.7	0.0	9919.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	12701.0	0.0	12701.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	1.3
10°-20°	487.7	3.8
20°-30°	834.1	6.6
30°-40°	1341.3	10.6
40°-50°	2094.1	16.5
50°-60°	2797.2	22.0
60°-70°	2981.4	23.5
70°-80°	1835.3	14.5
80°-90°	160.8	1.3
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°	12701.0	100.0
0°-180°	12701.0	100.0

Coefficient of Utilization



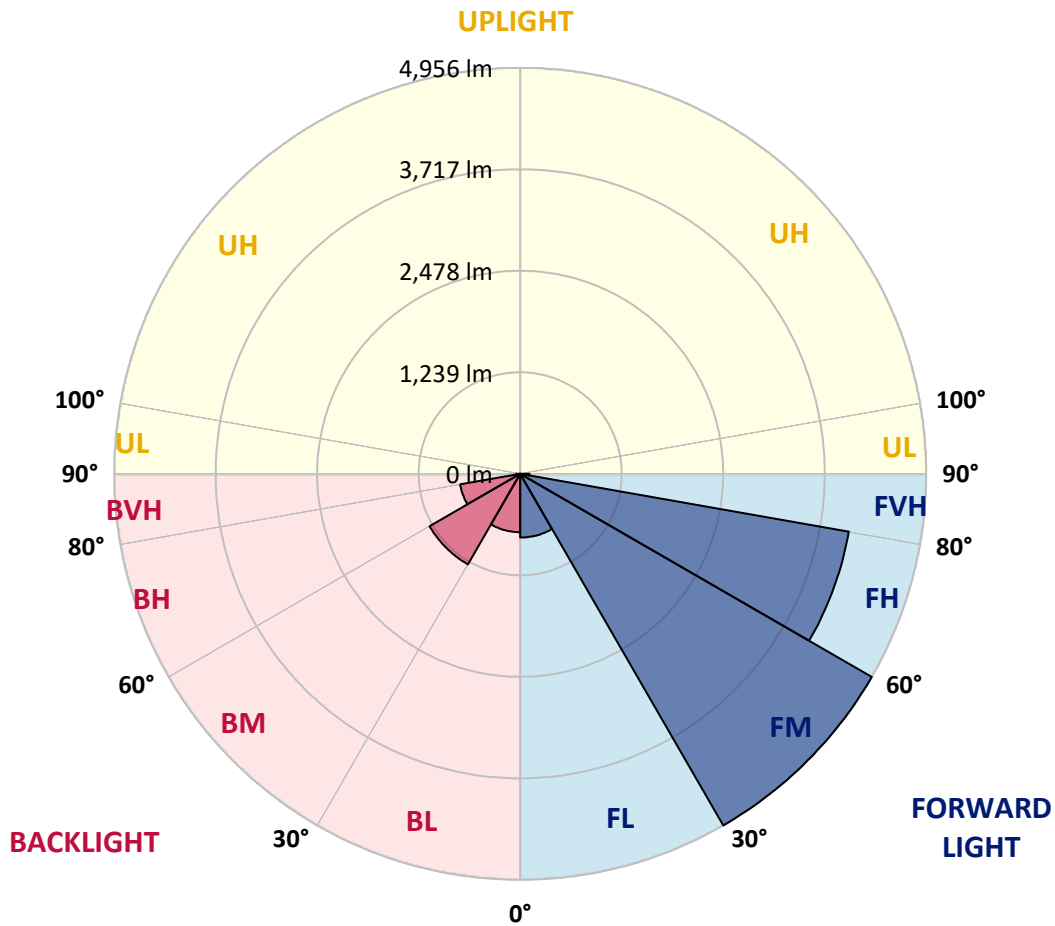
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	778.1	6.1			
FM (30°-60°)	4955.7	39.0			
FH (60°-80°)	4073.4	32.1			G2/5000
FVH (80°-90°)	112.5	0.9			G2/225
BL (0°-30°)	712.7	5.6	B2/1000		
BM (30°-60°)	1277.0	10.1	B2/2500		
BH (60°-80°)	743.3	5.9	B2/1000		G2/1000
BVH (80°-90°)	48.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1771.9	1771.9	1771.9	1771.9	1771.9	1771.9	1771.9	1771.9	1771.9	1771.9	1771.9
2.5°	1633.4	1632.7	1641.2	1643.8	1659.4	1670.4	1691.2	1713.4	1742.0	1745.2	1762.8
5°	1539.0	1539.0	1548.8	1559.2	1579.4	1601.5	1633.4	1671.7	1721.2	1729.0	1772.6
7.5°	1459.0	1464.2	1472.7	1492.8	1516.3	1548.1	1596.9	1651.6	1716.6	1729.0	1799.2
10°	1394.6	1400.5	1410.9	1427.2	1462.3	1506.5	1570.3	1640.5	1727.7	1747.2	1838.3
12.5°	1374.5	1380.3	1386.2	1398.5	1431.1	1483.1	1559.2	1645.7	1754.3	1773.9	1891.6
15°	1421.3	1428.5	1423.9	1420.6	1437.6	1485.0	1564.4	1664.6	1787.5	1815.5	1957.3
17.5°	1529.3	1531.9	1521.5	1490.9	1488.3	1513.7	1589.1	1690.6	1829.1	1859.7	2023.6
20°	1703.6	1699.1	1677.6	1617.1	1582.6	1577.4	1631.4	1729.6	1872.1	1904.6	2095.2
22.5°	1940.4	1935.2	1892.2	1796.6	1719.9	1669.1	1692.5	1780.4	1920.2	1956.6	2164.8
25°	2235.7	2228.5	2165.4	2035.3	1916.3	1790.8	1775.8	1847.4	1979.4	2013.2	2237.6
27.5°	2580.5	2574.6	2506.3	2334.6	2162.8	1957.3	1879.2	1926.1	2041.2	2079.6	2319.6
30°	2951.2	2968.1	2847.1	2662.4	2445.2	2174.6	2018.4	2023.0	2121.2	2155.7	2419.1
32.5°	3387.0	3416.3	3270.6	3036.4	2739.8	2410.7	2194.1	2158.3	2237.6	2266.3	2544.7
35°	3819.0	3852.1	3731.1	3472.3	3130.8	2689.1	2377.5	2313.8	2392.5	2423.7	2711.2
37.5°	4192.3	4236.6	4174.1	3949.1	3549.0	3024.7	2616.9	2496.5	2583.1	2622.1	2935.0
40°	4487.0	4554.7	4550.1	4409.6	4042.1	3431.9	2920.7	2722.3	2819.8	2862.1	3206.2
42.5°	4726.4	4784.9	4835.7	4828.5	4556.6	3894.4	3277.8	3015.6	3089.8	3138.6	3511.3
45°	4891.6	4954.0	5063.3	5181.1	5051.6	4389.4	3686.9	3363.6	3431.3	3504.8	3874.9
47.5°	5039.3	5110.2	5252.0	5438.7	5471.8	4886.4	4135.1	3768.9	3830.7	3906.8	4239.8
50°	5052.3	5113.4	5333.3	5598.0	5770.4	5363.9	4616.5	4223.6	4281.5	4362.8	4630.8
52.5°	4738.1	4834.4	5218.1	5593.5	5907.7	5763.2	5094.6	4696.5	4761.5	4859.1	5035.4
55°	3677.8	3819.0	4880.5	5419.1	5858.9	6021.5	5549.2	5199.3	5282.5	5384.7	5442.6
57.5°	3167.8	3229.6	3874.3	5101.7	5636.4	6088.5	5933.0	5707.3	5841.3	5953.2	5873.2
60°	2847.1	2898.5	3279.7	4608.0	5343.7	5982.5	6229.6	6180.9	6412.4	6545.8	6313.6
62.5°	2503.7	2552.5	2899.2	3847.6	4969.0	5806.2	6417.0	6618.0	6997.9	7143.6	6728.6
65°	2162.8	2204.5	2536.9	3232.9	4492.9	5629.9	6513.9	6995.9	7539.7	7690.6	7073.3
67.5°	1783.0	1817.4	2131.6	2727.5	3913.9	5388.6	6562.0	7293.2	8011.3	8140.7	7243.7
70°	1286.6	1313.3	1637.9	2157.0	3187.3	4973.6	6542.5	7503.9	8255.9	8359.3	7114.9
72.5°	608.2	632.3	1013.4	1400.5	2251.3	4165.7	6147.7	7336.8	8007.4	7956.0	6326.6
75°	324.6	345.4	582.2	768.2	1189.1	2855.6	5030.8	6320.1	6724.0	6474.2	4675.6
77.5°	219.9	236.1	360.4	461.2	543.2	1355.6	3233.5	4375.8	4209.9	3797.5	2341.7
80°	174.3	191.2	295.3	312.2	262.8	489.8	1336.1	2025.6	1455.1	1163.7	666.1
82.5°	134.0	152.9	248.5	226.4	143.1	201.0	389.0	640.7	372.7	283.6	161.3
85°	82.0	102.1	195.1	144.4	80.7	91.7	132.0	178.2	113.8	95.0	57.9
87.5°	41.6	58.5	98.9	52.7	36.4	21.5	35.1	35.1	29.9	26.0	15.0
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°	1771.9	1771.9	1771.9	1771.9	1771.9	1771.9	1771.9	1771.9	1771.9	1771.9	1771.9
2.5°	1778.4	1791.4	1813.5	1834.4	1850.6	1866.2	1881.8	1890.3	1892.9	1903.3	1909.2
5°	1799.2	1823.3	1866.2	1906.6	1931.9	1947.5	1958.6	1965.1	1966.4	1969.7	1974.9
7.5°	1837.6	1876.0	1935.8	1976.2	1995.0	1993.7	1989.2	1972.9	1966.4	1960.5	1961.8
10°	1891.6	1942.3	2015.8	2043.8	2032.1	2000.9	1960.5	1913.1	1890.9	1869.5	1863.0
12.5°	1958.6	2023.0	2095.2	2093.9	2036.0	1956.0	1862.3	1789.5	1743.3	1710.1	1702.3
15°	2039.9	2114.1	2169.3	2125.1	1998.3	1854.5	1717.3	1622.3	1580.7	1544.2	1540.3
17.5°	2123.8	2203.2	2228.5	2115.4	1903.3	1704.3	1548.8	1474.0	1433.0	1413.5	1419.3
20°	2205.8	2284.5	2263.7	2059.4	1758.9	1533.8	1395.3	1354.3	1345.8	1350.4	1348.4
22.5°	2292.3	2362.5	2270.8	1951.4	1574.8	1359.5	1283.4	1284.7	1303.6	1317.2	1320.5
25°	2380.8	2428.2	2252.0	1795.3	1377.1	1231.4	1212.5	1233.3	1270.4	1297.1	1304.2
27.5°	2466.0	2486.8	2211.0	1602.1	1207.3	1139.6	1142.9	1185.8	1241.8	1278.8	1287.9
30°	2562.2	2538.8	2132.3	1384.9	1089.6	1060.9	1088.3	1138.3	1194.3	1227.5	1235.3
32.5°	2670.9	2583.7	2007.4	1183.9	1006.3	997.8	1042.7	1075.2	1100.0	1109.7	1114.9
35°	2806.2	2646.8	1847.4	1042.7	931.5	951.7	994.6	978.3	968.6	963.4	968.6
37.5°	2981.8	2732.0	1660.0	951.0	871.0	918.5	936.0	885.3	846.9	828.1	832.6
40°	3193.2	2856.9	1479.8	880.1	832.6	889.9	859.3	798.1	749.4	722.7	724.6
42.5°	3428.0	2987.7	1328.3	826.8	811.1	866.4	802.7	729.8	651.1	642.7	651.1
45°	3674.6	3122.3	1224.9	785.8	800.7	846.3	770.2	652.4	596.5	631.0	649.2
47.5°	3921.1	3245.9	1162.4	755.2	795.5	823.5	741.5	609.5	569.8	619.9	643.3
50°	4195.6	3356.5	1134.4	733.1	789.7	814.4	698.6	598.4	541.8	575.0	599.7
52.5°	4468.1	3442.3	1113.6	711.0	781.2	807.2	677.8	585.4	508.0	510.0	523.6
55°	4740.0	3498.3	1090.9	681.7	762.4	791.6	675.8	571.1	482.7	473.5	480.1
57.5°	5030.2	3530.2	1062.9	649.2	729.8	752.0	673.9	560.1	474.8	459.9	461.8
60°	5325.5	3577.0	1026.5	609.5	686.3	704.5	669.3	556.2	470.3	444.9	446.9
62.5°	5590.2	3593.2	982.9	571.8	630.3	657.6	659.6	552.9	457.9	414.4	414.4
65°	5763.9	3523.0	906.8	528.8	569.8	609.5	640.7	541.8	435.8	392.2	392.2
67.5°	5756.7	3322.6	787.7	473.5	511.3	556.2	613.4	523.0	409.2	364.9	366.9
70°	5488.7	2927.2	636.8	409.2	446.9	498.9	578.3	495.0	377.3	335.0	338.9
72.5°	4707.5	2291.0	462.5	333.7	372.1	439.7	532.7	461.2	344.8	308.3	306.4
75°	3363.0	1449.9	313.5	256.3	289.5	372.7	476.2	421.5	314.8	309.6	292.1
77.5°	1717.9	692.8	207.5	187.3	201.6	294.0	400.0	376.6	319.4	255.6	227.7
80°	558.8	255.6	130.7	127.5	134.0	195.8	309.6	309.0	242.0	173.7	153.5
82.5°	178.2	109.9	85.2	82.0	78.7	122.9	216.0	244.6	163.3	109.9	109.3
85°	70.9	65.7	50.1	46.2	33.2	57.9	113.2	162.6	121.6	79.4	81.3
87.5°	26.0	26.0	13.7	9.8	7.2	19.5	30.6	48.8	69.6	41.0	40.3
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)