

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: P947723

Luminaire Tested: **GALN-SB3A-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-727-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12651 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 84.7
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

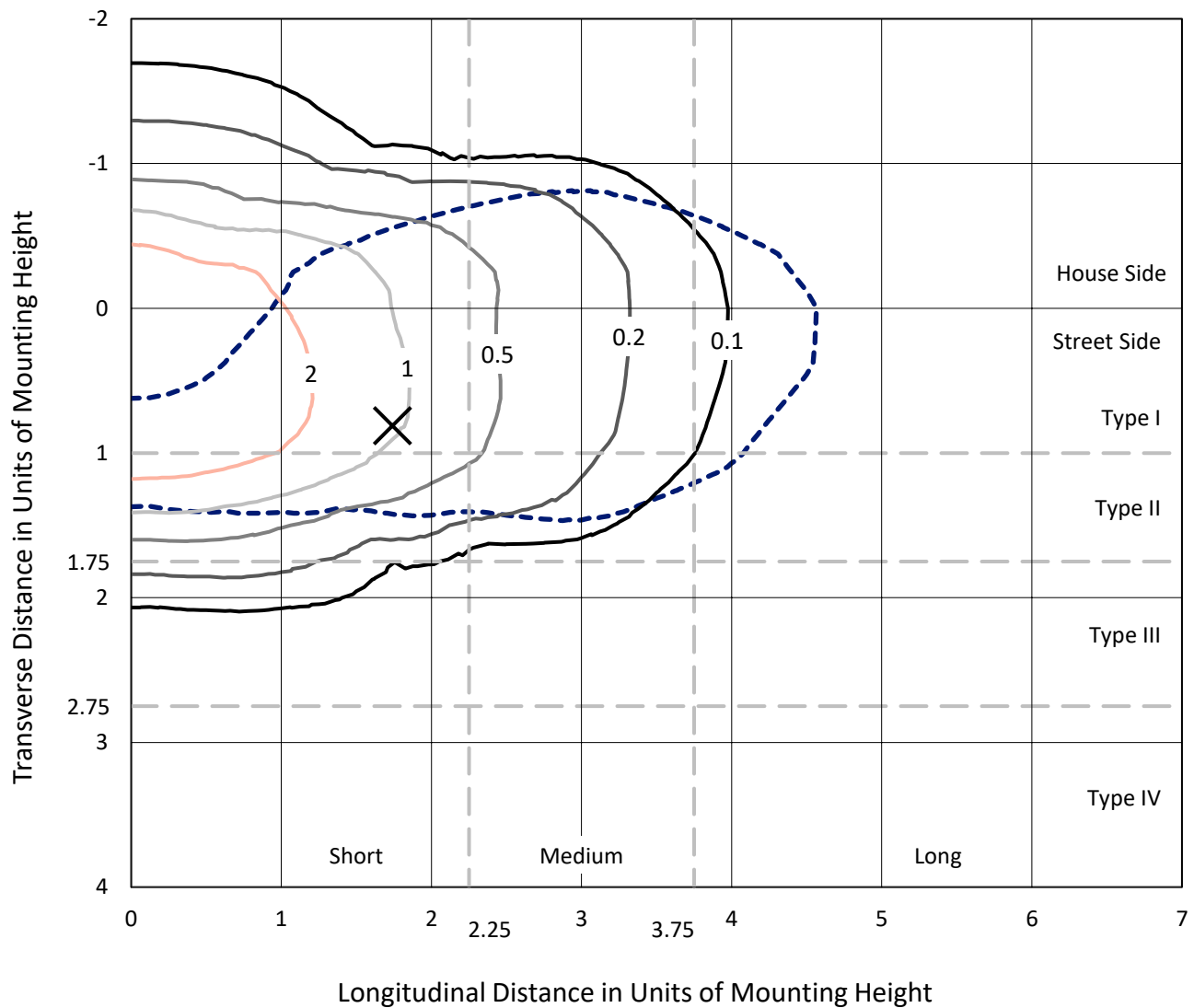


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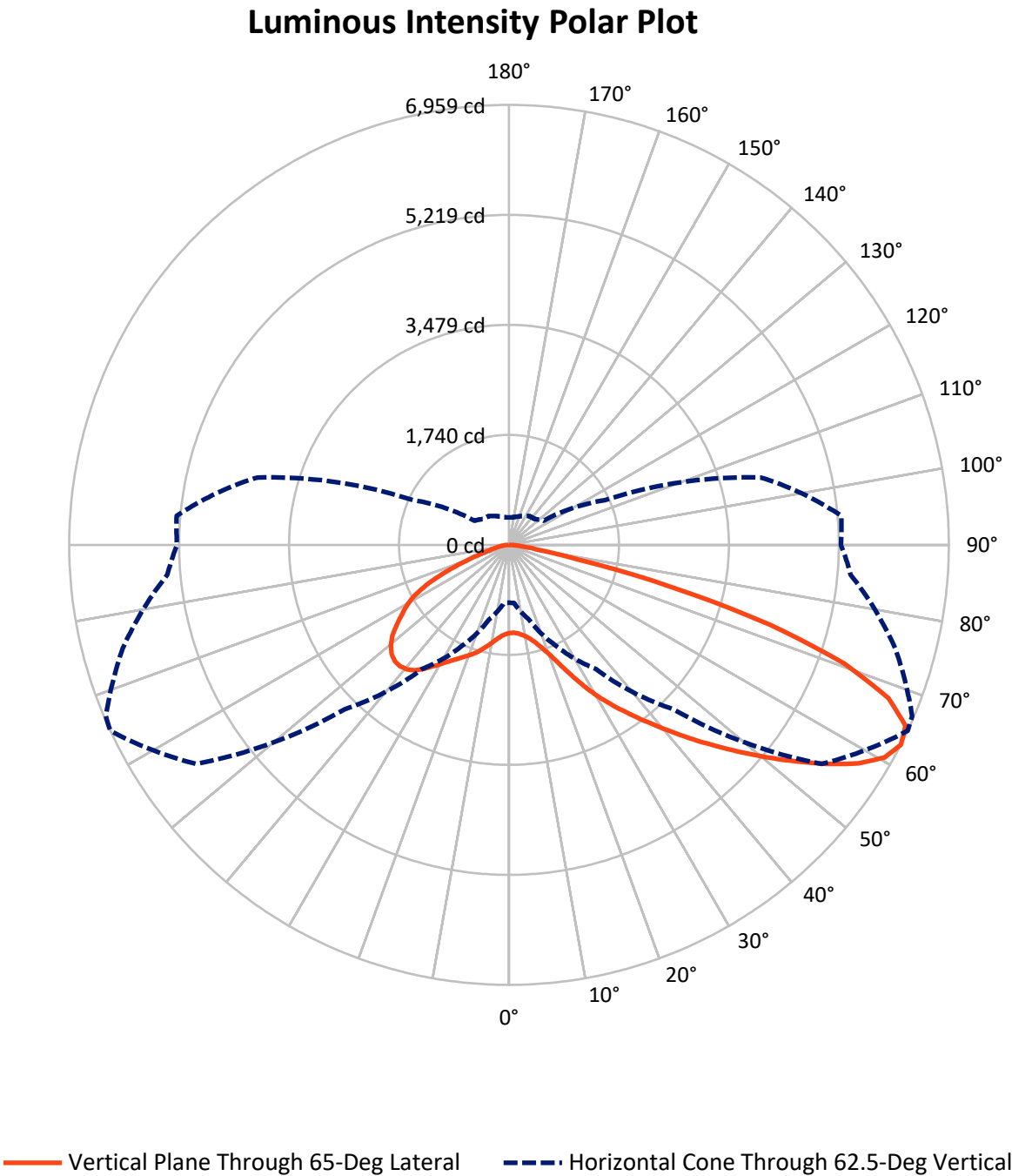
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type II - Short - N/A

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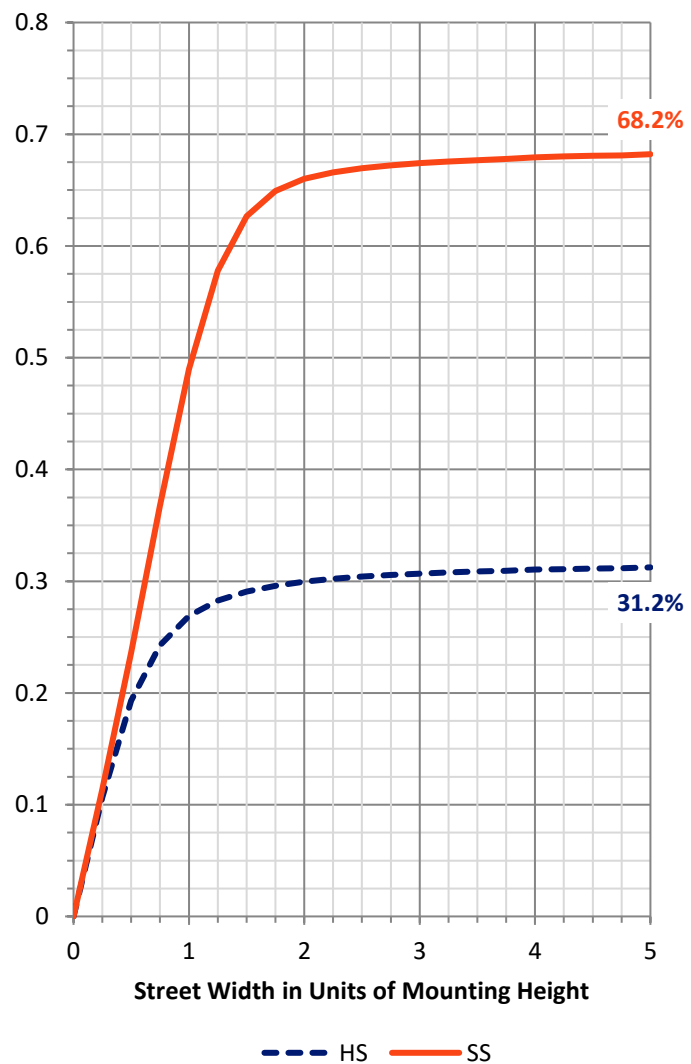
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3992.1	0.0	3992.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	8658.9	0.0	8658.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	12651.0	0.0	12651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	1.1
10°-20°	471.3	3.7
20°-30°	955.7	7.6
30°-40°	1653.7	13.1
40°-50°	2502.6	19.8
50°-60°	2934.2	23.2
60°-70°	2460.0	19.4
70°-80°	1358.1	10.7
80°-90°	176.4	1.4
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°	12651.0	100.0
0°-180°	12651.0	100.0

Coefficient of Utilization



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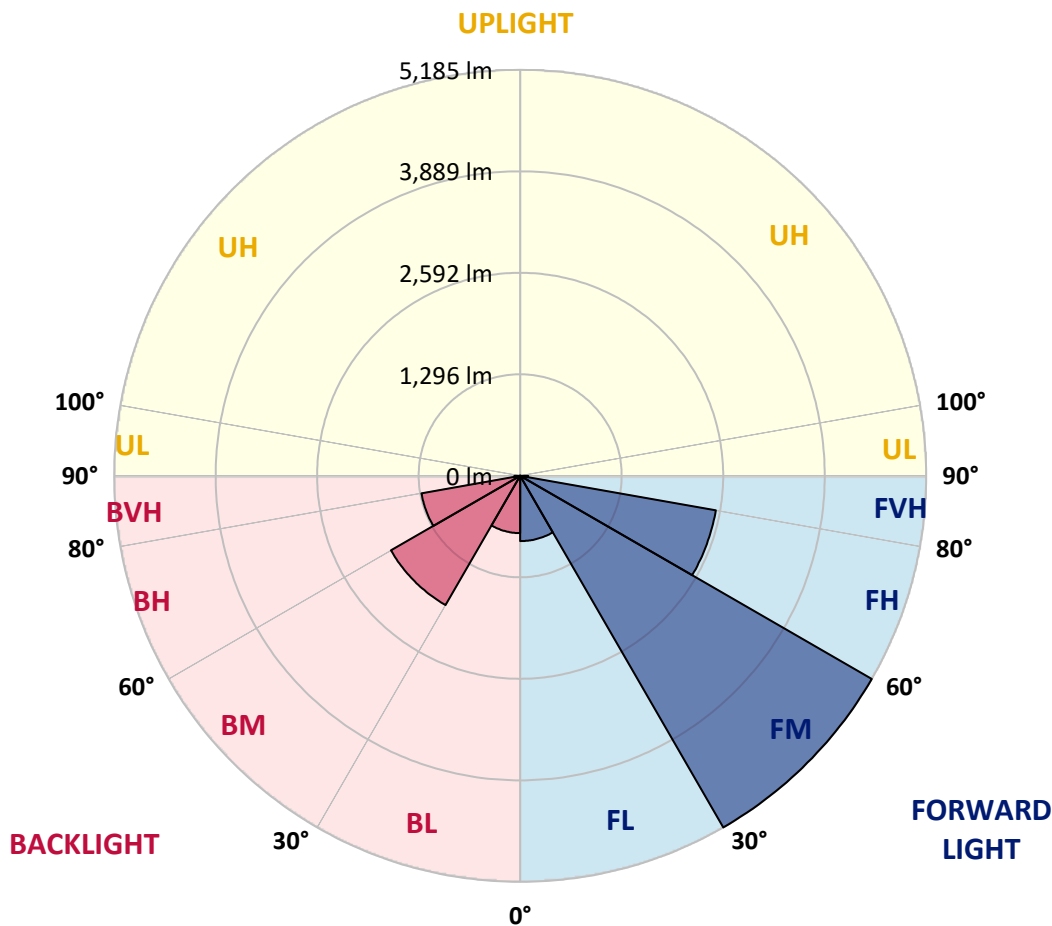
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	833.9	6.6			
FM	(30°-60°)	5184.8	41.0			
FH	(60°-80°)	2537.4	20.1			G2/5000
FVH	(80°-90°)	102.8	0.8			G2/225
BL	(0°-30°)	732.1	5.8	B2/1000		
BM	(30°-60°)	1905.8	15.1	B2/2500		
BH	(60°-80°)	1280.6	10.1	B3/2500		G3/2500
BVH	(80°-90°)	73.6	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1
2.5°	1384.9	1381.0	1384.2	1384.2	1385.6	1384.9	1389.5	1390.8	1392.8	1396.7	1396.7
5°	1371.1	1370.5	1376.4	1381.6	1386.9	1391.5	1397.4	1405.9	1407.2	1411.8	1417.7
7.5°	1366.5	1362.6	1371.8	1378.3	1390.8	1402.0	1417.7	1432.2	1438.1	1440.0	1451.2
10°	1402.0	1395.4	1403.9	1407.9	1418.4	1429.5	1447.9	1470.9	1477.4	1485.3	1497.8
12.5°	1462.3	1455.1	1467.6	1473.5	1483.3	1493.2	1505.7	1528.0	1531.3	1545.7	1557.5
15°	1545.0	1536.5	1544.4	1551.6	1568.0	1577.2	1589.7	1611.3	1611.3	1622.5	1631.0
17.5°	1657.3	1646.1	1652.0	1654.7	1665.2	1678.9	1699.9	1719.0	1728.8	1724.9	1713.1
20°	1824.7	1810.9	1810.9	1797.7	1793.8	1805.0	1832.5	1858.8	1869.3	1848.9	1820.1
22.5°	2076.0	2056.3	2045.2	2000.6	1982.8	1984.1	2011.7	2043.9	2052.4	2016.3	1951.3
25°	2395.7	2364.8	2349.7	2284.1	2244.1	2209.3	2230.9	2272.3	2284.1	2239.5	2134.4
27.5°	2715.3	2717.3	2702.8	2624.1	2557.8	2494.1	2483.0	2526.3	2538.8	2488.2	2358.3
30°	3163.6	3117.0	3089.4	2994.9	2900.4	2811.1	2765.2	2782.9	2786.2	2725.8	2574.9
32.5°	3550.2	3538.4	3479.3	3396.6	3275.2	3135.4	3058.6	3030.4	3025.1	2939.1	2759.9
35°	3990.6	3984.0	3921.7	3823.2	3692.0	3497.7	3359.2	3278.5	3271.9	3151.1	2943.1
37.5°	4438.2	4438.2	4377.2	4269.6	4133.7	3890.8	3680.1	3552.2	3531.2	3373.6	3129.5
40°	4795.3	4773.6	4784.8	4739.5	4583.9	4326.0	4036.5	3850.8	3822.6	3633.5	3327.7
42.5°	4998.1	4990.9	5057.8	5108.4	5044.7	4838.6	4429.0	4174.4	4135.0	3919.7	3556.1
45°	5043.4	5035.5	5155.0	5340.1	5429.3	5344.7	4855.7	4515.0	4467.1	4219.0	3800.9
47.5°	4939.0	4923.3	5098.5	5390.6	5676.8	5825.8	5317.7	4884.5	4815.0	4510.4	4052.3
50°	4625.3	4610.2	4875.4	5263.3	5760.1	6152.6	5819.2	5276.4	5170.1	4822.9	4306.3
52.5°	3943.3	3950.6	4366.0	4899.0	5650.5	6356.1	6251.1	5689.2	5561.2	5142.5	4544.6
55°	3071.7	3087.5	3598.1	4184.9	5212.1	6325.2	6545.8	6114.5	5987.2	5443.1	4790.7
57.5°	2199.4	2269.0	2747.5	3328.3	4370.0	5836.3	6610.1	6518.9	6395.5	5771.3	5031.6
60°	1425.6	1438.1	1930.3	2515.8	3327.7	4967.2	6479.5	6825.4	6728.9	6106.0	5233.1
62.5°	913.6	922.2	1222.1	1759.7	2395.0	3674.9	6039.7	6958.6	6929.1	6327.2	5426.7
65°	671.4	664.9	821.1	1163.1	1613.3	2266.4	5185.8	6894.3	6952.7	6465.7	5586.8
67.5°	560.5	551.3	628.1	805.3	1188.6	1287.1	3837.0	6476.2	6690.2	6449.9	5704.3
70°	510.6	502.8	549.4	597.9	927.4	861.8	1934.3	5630.2	5959.6	6270.8	5685.3
72.5°	432.5	418.8	482.4	531.0	721.3	660.9	799.4	4324.7	4726.4	5696.5	5417.5
75°	335.4	326.2	380.7	467.3	542.1	515.9	505.4	2626.1	3064.5	4405.4	4739.5
77.5°	265.8	253.4	303.2	364.3	487.7	389.2	368.2	1130.9	1565.4	2812.5	3546.3
80°	200.2	189.0	230.4	288.1	374.8	293.4	238.3	461.4	590.1	1424.9	1783.3
82.5°	142.4	132.6	160.8	211.3	252.0	263.2	146.4	258.6	290.8	549.4	398.4
85°	91.2	85.3	107.6	132.6	160.1	169.3	89.3	135.2	148.3	226.4	166.1
87.5°	49.9	40.7	57.8	61.7	74.2	67.6	42.7	49.2	53.2	82.0	70.2
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°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1
2.5°	1399.3	1401.3	1407.9	1409.8	1414.4	1420.3	1424.3	1428.2	1428.2	1432.2	1432.2
5°	1418.4	1423.0	1436.7	1444.0	1455.8	1467.6	1474.8	1483.3	1488.6	1491.2	1492.5
7.5°	1455.1	1462.3	1482.0	1494.5	1514.9	1531.3	1542.4	1554.2	1556.9	1564.1	1561.5
10°	1505.0	1513.5	1535.9	1559.5	1583.8	1604.1	1614.6	1623.2	1626.4	1627.7	1624.5
12.5°	1562.1	1574.6	1603.5	1632.3	1657.9	1675.7	1678.3	1676.3	1667.1	1659.3	1659.3
15°	1632.3	1643.5	1675.7	1707.2	1732.1	1735.4	1719.0	1708.5	1697.3	1695.3	1695.3
17.5°	1716.4	1722.3	1751.8	1782.6	1784.6	1773.5	1749.2	1739.3	1728.8	1721.6	1722.3
20°	1814.1	1812.2	1833.2	1846.3	1832.5	1798.4	1761.6	1745.2	1734.7	1726.2	1726.9
22.5°	1931.0	1915.9	1913.3	1910.0	1873.2	1801.7	1751.8	1730.8	1714.4	1702.6	1706.5
25°	2101.0	2043.2	2003.2	1980.9	1898.2	1784.0	1720.3	1673.7	1642.8	1622.5	1630.4
27.5°	2313.6	2216.5	2115.4	2060.9	1898.2	1747.9	1644.2	1568.7	1518.1	1497.1	1507.6
30°	2516.4	2414.7	2265.7	2157.4	1893.6	1688.8	1521.4	1416.4	1357.3	1336.3	1348.8
32.5°	2689.7	2578.8	2425.2	2263.1	1882.4	1593.0	1369.1	1253.0	1195.9	1170.9	1183.4
35°	2850.5	2732.4	2585.4	2379.3	1852.9	1452.5	1201.8	1113.2	1049.5	1009.5	1022.6
37.5°	3015.3	2874.8	2737.0	2484.3	1799.7	1288.4	1073.1	997.7	922.8	869.0	883.4
40°	3194.5	3026.4	2899.1	2546.6	1712.4	1132.2	973.4	904.4	825.0	767.9	779.1
42.5°	3403.8	3208.2	3079.6	2578.8	1593.0	1021.3	908.4	840.8	766.0	719.4	728.5
45°	3622.4	3408.4	3244.3	2578.1	1459.7	969.4	887.4	820.4	737.7	689.2	697.0
47.5°	3851.5	3617.8	3386.8	2536.1	1344.2	976.6	875.6	776.5	685.2	638.0	644.5
50°	4081.2	3846.9	3524.6	2457.4	1295.0	960.9	831.6	714.8	607.1	564.5	567.1
52.5°	4308.9	4090.4	3643.4	2345.1	1245.1	902.5	775.1	634.7	575.0	545.4	545.4
55°	4538.0	4331.2	3772.7	2181.7	1120.4	834.2	680.6	604.5	549.4	522.5	519.8
57.5°	4767.7	4609.5	3895.4	2018.3	963.5	750.2	628.8	567.7	523.8	500.8	496.9
60°	5006.6	4927.9	4022.1	1868.0	808.6	642.6	590.7	538.2	493.6	468.0	466.0
62.5°	5252.8	5278.4	4121.2	1674.3	666.2	576.9	556.6	502.8	459.4	435.2	434.5
65°	5500.9	5616.4	4186.2	1405.9	540.2	514.6	519.8	464.0	420.1	399.1	398.4
67.5°	5687.9	5859.9	4167.8	1063.9	443.0	455.5	473.9	423.3	382.0	365.6	366.2
70°	5708.9	5831.0	3986.7	728.5	370.8	397.7	422.7	383.3	340.6	328.8	329.5
72.5°	5429.3	5437.2	3481.9	475.9	313.7	349.2	368.9	342.6	301.3	289.4	288.8
75°	4696.2	4496.6	2556.5	313.7	262.5	300.0	318.3	300.0	259.9	262.5	253.4
77.5°	3558.1	3184.6	1552.3	223.2	219.2	252.0	277.0	263.9	229.7	257.9	227.1
80°	1833.2	1722.9	692.4	166.7	173.3	201.5	227.8	210.7	181.8	173.3	158.2
82.5°	420.1	488.3	273.0	119.5	125.4	145.1	173.9	158.2	130.6	110.3	109.0
85°	147.0	160.8	120.8	74.8	73.5	90.6	118.1	105.7	88.6	70.9	74.8
87.5°	46.6	61.0	45.3	30.2	31.5	40.7	54.5	49.9	41.3	26.9	28.2
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)