

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: P947013

Luminaire Tested: **GALN-SB2C-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-727-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13864 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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

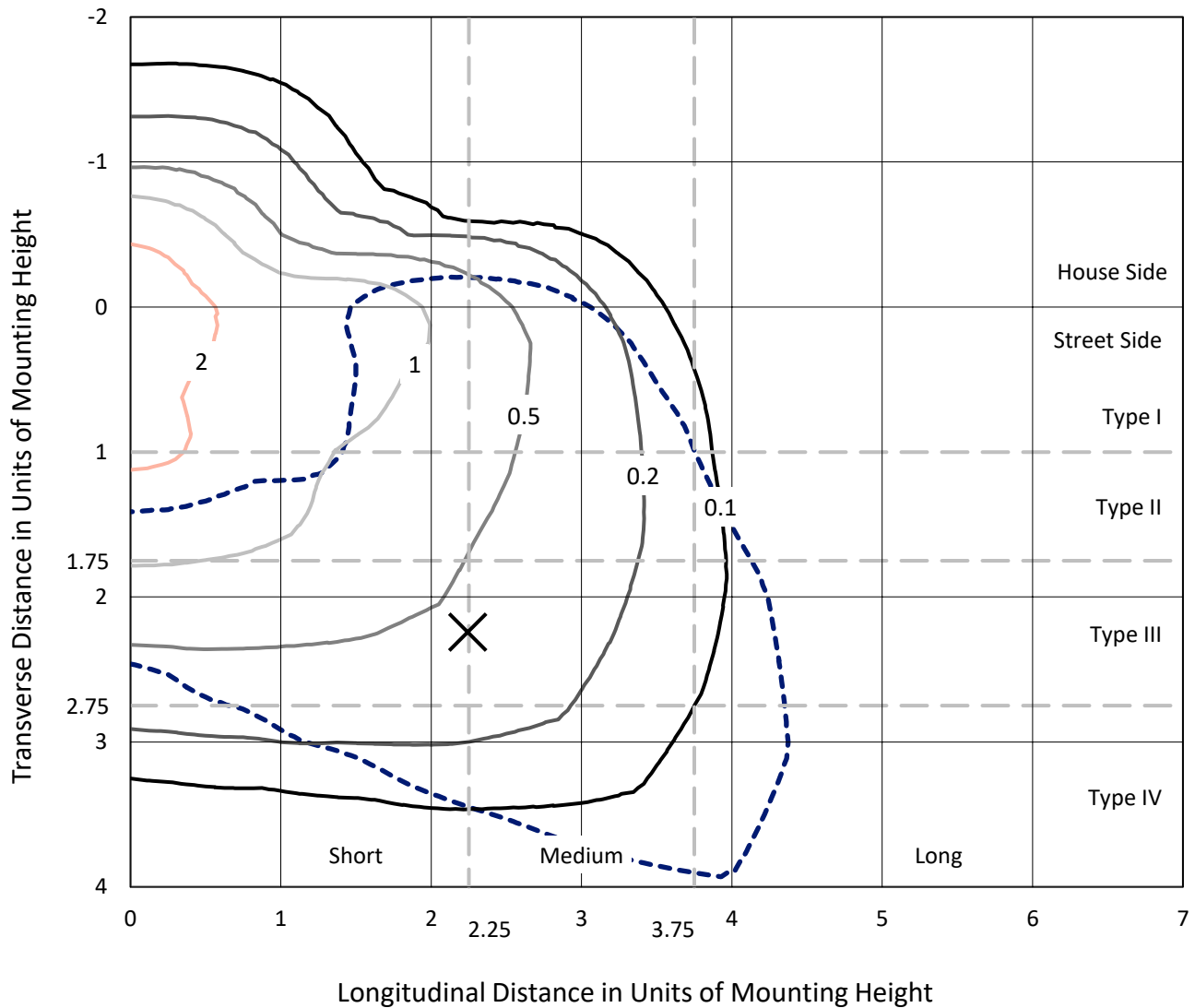


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

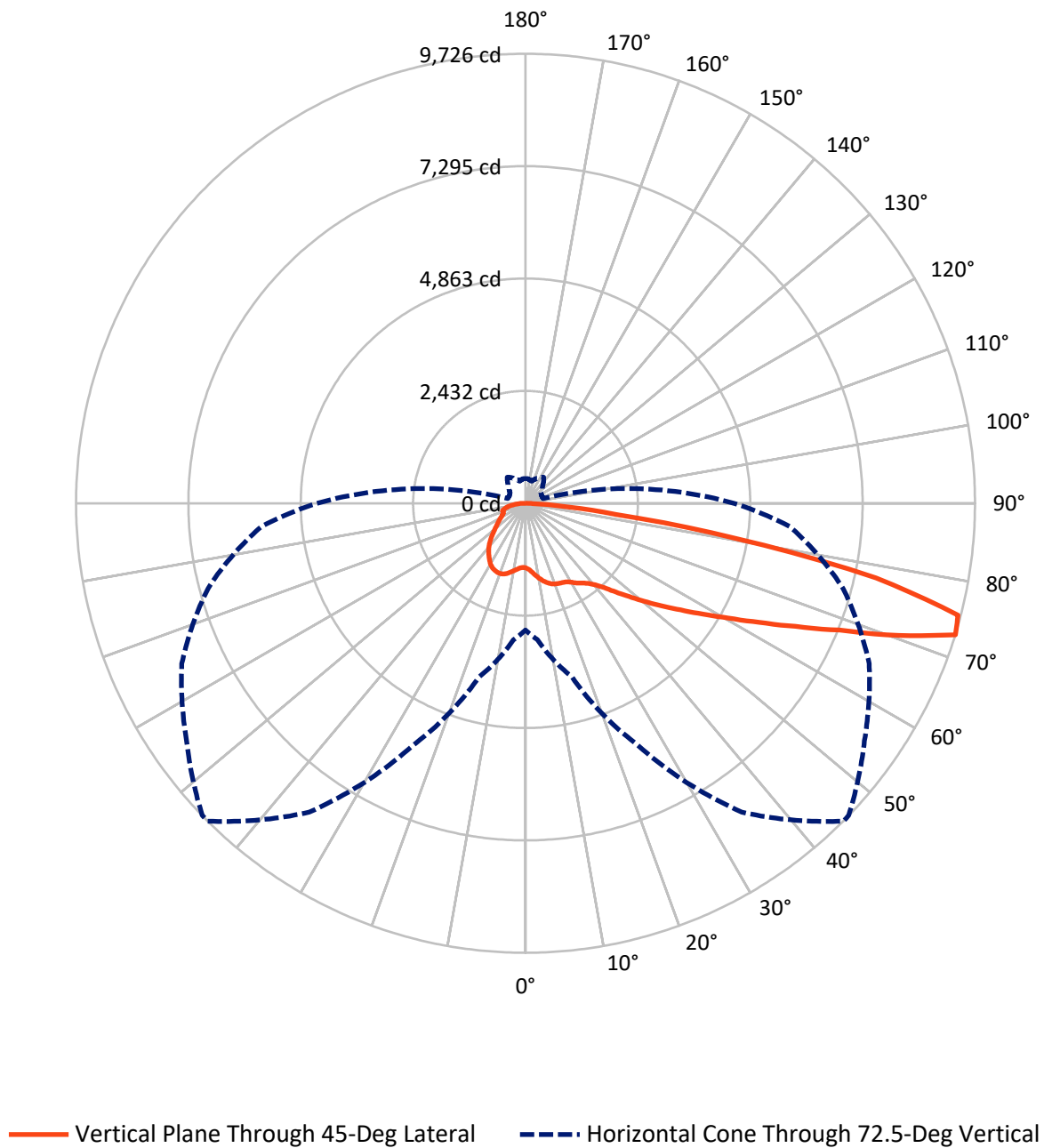


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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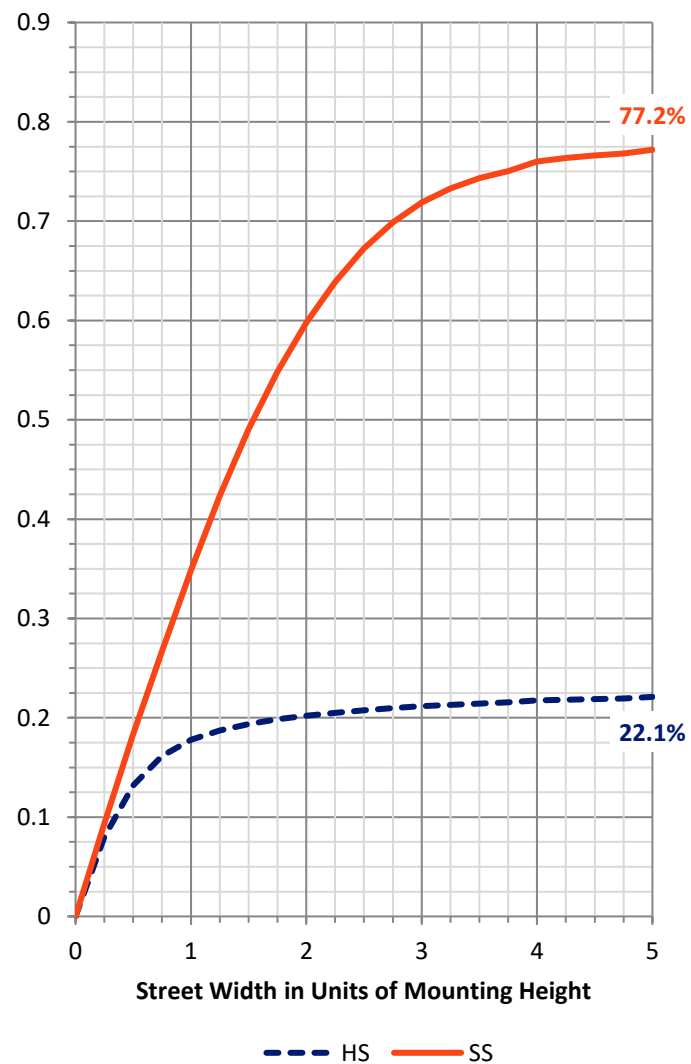
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3134.2	0.0	3134.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	10729.8	0.0	10729.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	13864.0	0.0	13864.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	1.0
10°-20°	474.6	3.4
20°-30°	825.6	6.0
30°-40°	1183.6	8.5
40°-50°	1666.5	12.0
50°-60°	2552.6	18.4
60°-70°	3697.9	26.7
70°-80°	2953.0	21.3
80°-90°	367.8	2.7
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°	13864.0	100.0
0°-180°	13864.0	100.0

Coefficient of Utilization



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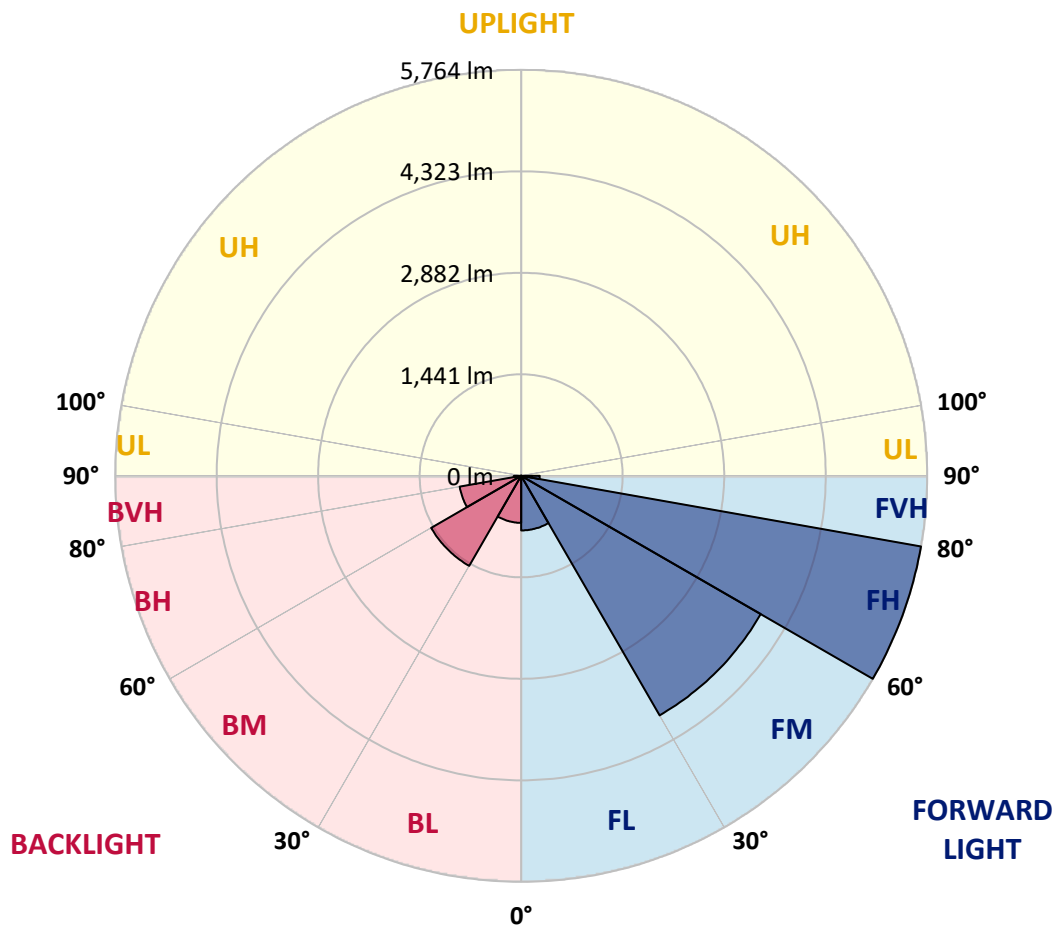
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	775.3	5.6			
FM	(30°-60°)	3927.0	28.3			
FH	(60°-80°)	5763.7	41.6			G3/7500
FVH	(80°-90°)	263.8	1.9			G3/500
BL	(0°-30°)	667.3	4.8	B2/1000		
BM	(30°-60°)	1475.7	10.6	B2/2500		
BH	(60°-80°)	887.2	6.4	B2/1000		G2/1000
BVH	(80°-90°)	103.9	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1398.6	1398.6	1398.6	1398.6	1398.6	1398.6	1398.6	1398.6	1398.6	1398.6	1398.6
2.5°	1453.4	1462.9	1454.1	1446.1	1442.4	1432.9	1432.2	1426.4	1422.7	1412.5	1409.6
5°	1554.9	1567.3	1552.7	1536.6	1522.0	1498.7	1495.7	1478.9	1460.0	1438.0	1425.6
7.5°	1669.6	1680.5	1663.7	1639.6	1614.1	1575.4	1574.6	1543.9	1514.0	1476.8	1455.6
10°	1769.6	1784.2	1761.6	1728.7	1696.6	1652.8	1647.7	1612.6	1574.6	1526.4	1494.3
12.5°	1858.0	1868.2	1846.3	1806.1	1768.9	1725.1	1718.5	1679.8	1637.4	1582.7	1541.8
15°	1928.1	1941.3	1912.0	1868.9	1829.5	1786.4	1780.6	1745.5	1703.2	1645.5	1592.9
17.5°	1974.1	1985.1	1955.1	1906.9	1868.9	1833.2	1828.8	1799.6	1762.3	1703.9	1647.7
20°	1991.6	2003.3	1971.9	1923.0	1887.9	1860.2	1858.0	1836.8	1811.3	1757.9	1701.0
22.5°	2009.2	2020.1	1979.2	1928.1	1897.4	1879.9	1879.2	1865.3	1855.1	1811.3	1755.7
25°	2080.0	2082.9	2028.2	1954.4	1910.6	1895.2	1894.5	1893.8	1898.2	1863.8	1814.9
27.5°	2141.4	2140.6	2093.9	2024.5	1956.6	1924.5	1923.7	1931.0	1944.9	1916.4	1876.3
30°	2231.2	2223.2	2167.7	2095.4	2033.3	1983.6	1979.2	1972.7	1983.6	1961.0	1937.6
32.5°	2421.8	2396.3	2306.4	2177.9	2096.8	2058.8	2053.0	2012.1	2016.5	2002.6	1990.9
35°	2695.0	2661.4	2541.6	2334.2	2175.7	2121.6	2118.7	2066.9	2058.1	2045.7	2050.1
37.5°	3020.0	2978.3	2838.8	2560.6	2311.5	2194.7	2190.3	2143.6	2107.8	2094.6	2119.5
40°	3346.4	3293.8	3178.5	2836.7	2511.7	2316.6	2302.8	2231.9	2191.0	2169.1	2221.7
42.5°	3663.4	3619.6	3521.0	3146.3	2758.5	2494.9	2464.2	2342.9	2312.3	2291.8	2386.8
45°	3943.9	3904.4	3832.1	3477.2	3047.7	2737.3	2707.4	2509.5	2500.0	2500.0	2637.3
47.5°	4171.7	4163.0	4086.3	3814.6	3388.8	3013.4	2961.5	2741.0	2766.5	2806.0	2992.9
50°	4424.4	4400.3	4318.5	4146.9	3789.8	3329.6	3287.3	3025.1	3120.8	3228.8	3507.1
52.5°	4656.7	4669.8	4578.5	4493.1	4242.6	3682.4	3607.9	3360.3	3567.0	3745.9	4109.6
55°	4895.5	4896.2	4870.7	4859.0	4717.3	4072.4	3990.6	3763.5	4092.1	4314.1	4812.2
57.5°	5119.7	5121.2	5159.1	5262.1	5268.0	4522.3	4429.5	4258.6	4675.7	4902.1	5536.7
60°	5319.8	5330.0	5433.8	5674.8	5752.2	5037.9	4950.3	4843.6	5278.9	5506.8	6298.5
62.5°	5387.0	5424.3	5655.0	5997.6	6230.6	5670.4	5584.2	5520.7	5912.9	6124.7	6935.3
65°	5273.1	5358.5	5804.8	6264.2	6722.8	6421.9	6336.5	6267.1	6571.6	6771.0	7458.3
67.5°	4993.4	5103.6	5796.0	6543.9	7320.2	7326.1	7246.5	7083.6	7277.9	7354.6	7628.4
70°	4256.4	4421.5	5285.5	6648.3	8006.0	8562.5	8485.9	8066.6	7982.7	7611.6	7149.3
72.5°	2742.4	2964.5	3892.0	5788.7	8158.7	9726.0	9721.6	8954.0	8205.4	7112.1	5733.9
75°	1000.6	1136.4	1808.3	3633.5	6848.4	9666.8	9695.3	8802.1	7490.4	5493.6	3572.1
77.5°	364.4	398.8	590.1	1396.4	4211.9	7756.2	7815.4	7036.9	5331.5	2757.0	1415.4
80°	191.3	210.3	302.4	541.9	1804.7	4606.3	4699.0	4181.9	2505.8	830.4	424.3
82.5°	105.9	114.7	169.4	294.3	812.9	1969.7	2025.2	1652.0	881.5	352.0	175.3
85°	57.0	60.6	79.6	160.7	397.3	682.9	698.2	493.7	351.3	206.7	84.7
87.5°	16.8	20.4	26.3	51.1	155.6	153.4	157.0	97.9	138.8	104.4	27.8
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°	1398.6	1398.6	1398.6	1398.6	1398.6	1398.6	1398.6	1398.6	1398.6	1398.6	1398.6
2.5°	1405.2	1403.0	1395.0	1391.3	1386.9	1386.2	1389.8	1390.6	1391.3	1392.0	1395.0
5°	1418.3	1411.0	1403.7	1399.3	1400.8	1401.5	1408.8	1413.9	1417.6	1420.5	1422.0
7.5°	1443.9	1438.0	1425.6	1424.9	1427.1	1433.7	1443.2	1454.8	1461.4	1466.5	1468.0
10°	1481.9	1470.9	1456.3	1458.5	1462.9	1472.4	1492.1	1501.6	1512.5	1522.0	1519.8
12.5°	1520.6	1511.1	1494.3	1495.7	1503.0	1519.8	1538.8	1550.5	1557.8	1565.1	1568.0
15°	1571.0	1554.2	1535.9	1535.9	1549.1	1567.3	1576.1	1585.6	1590.0	1598.0	1600.9
17.5°	1622.8	1600.9	1576.8	1575.4	1591.4	1600.2	1605.3	1606.8	1608.2	1617.0	1619.9
20°	1674.7	1650.6	1616.3	1613.3	1617.0	1615.5	1614.8	1613.3	1615.5	1626.5	1630.9
22.5°	1725.8	1698.0	1650.6	1637.4	1627.2	1613.3	1612.6	1611.9	1613.3	1624.3	1631.6
25°	1785.7	1752.1	1688.6	1649.1	1614.8	1595.8	1598.0	1598.7	1600.2	1608.9	1620.6
27.5°	1850.7	1813.4	1723.6	1645.5	1583.4	1570.2	1566.6	1568.8	1573.9	1587.8	1601.6
30°	1915.7	1871.9	1755.7	1630.9	1543.9	1525.7	1514.0	1519.1	1535.2	1549.1	1564.4
32.5°	1974.8	1931.0	1781.3	1598.7	1493.6	1465.1	1449.7	1456.3	1472.4	1477.5	1495.7
35°	2044.2	1994.6	1792.3	1547.6	1438.8	1395.0	1374.5	1365.0	1373.0	1367.9	1384.0
37.5°	2121.6	2069.8	1790.8	1480.4	1374.5	1324.1	1295.6	1259.8	1243.0	1225.5	1236.5
40°	2236.3	2161.8	1773.3	1399.3	1294.9	1248.9	1197.8	1137.1	1099.2	1064.8	1067.0
42.5°	2392.6	2289.6	1741.1	1310.2	1205.1	1162.0	1092.6	1021.8	961.9	904.9	899.8
45°	2625.6	2456.9	1701.0	1215.3	1107.9	1065.6	990.3	910.7	842.8	769.8	761.0
47.5°	2961.5	2681.8	1663.0	1107.2	1005.7	967.0	899.1	825.3	745.0	674.1	666.1
50°	3423.1	3004.6	1627.9	1002.0	904.9	875.7	821.6	746.4	665.3	608.4	604.7
52.5°	4010.3	3443.6	1613.3	900.5	810.7	799.7	756.6	686.5	609.8	561.6	558.0
55°	4684.4	3968.7	1613.3	803.4	728.2	731.8	701.9	636.9	570.4	527.3	522.9
57.5°	5372.4	4500.4	1584.1	713.5	658.0	673.4	654.4	597.4	537.5	493.0	485.7
60°	6006.3	4945.9	1465.8	631.7	596.0	620.1	607.6	558.7	485.7	448.4	442.6
62.5°	6493.5	5197.1	1237.9	566.7	544.8	572.6	566.0	507.6	476.2	460.8	455.7
65°	6737.4	5156.2	946.5	509.0	501.7	544.8	531.0	528.8	503.9	486.4	480.6
67.5°	6587.7	4804.2	686.5	466.7	476.9	519.3	572.6	581.4	535.3	501.0	495.2
70°	5931.1	4167.3	511.2	426.5	445.5	520.0	652.9	608.4	525.1	484.9	478.4
72.5°	4512.1	3107.6	396.6	384.2	404.6	523.7	688.7	596.0	495.9	536.1	531.7
75°	2580.3	1706.1	318.4	332.3	353.5	489.3	670.5	563.8	473.3	492.3	492.3
77.5°	983.8	655.8	262.9	281.2	284.1	427.3	641.2	561.6	450.6	439.7	401.0
80°	341.1	256.4	217.6	223.5	219.8	379.8	614.9	488.6	368.8	330.1	319.2
82.5°	139.5	127.8	172.4	165.1	156.3	295.1	496.6	399.5	301.6	266.6	263.7
85°	60.6	81.1	113.9	100.1	90.6	204.5	398.0	338.1	254.9	219.8	219.1
87.5°	12.4	30.7	48.2	45.3	46.7	136.6	282.6	240.3	180.4	135.1	105.9
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)