

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: P946988

Luminaire Tested: **GALN-SB2C-722-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946988
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-SB2C-722-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12538 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - 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

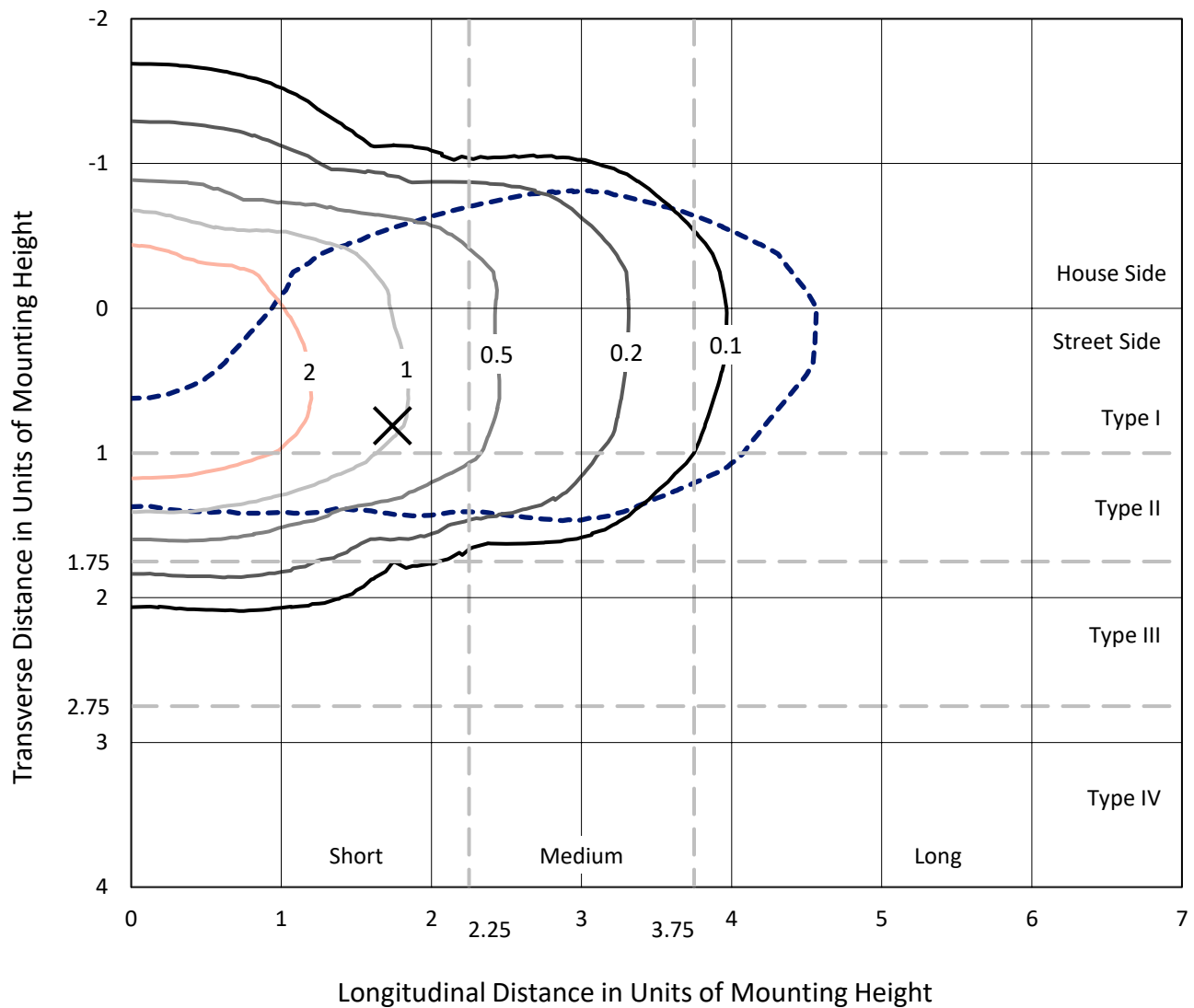


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

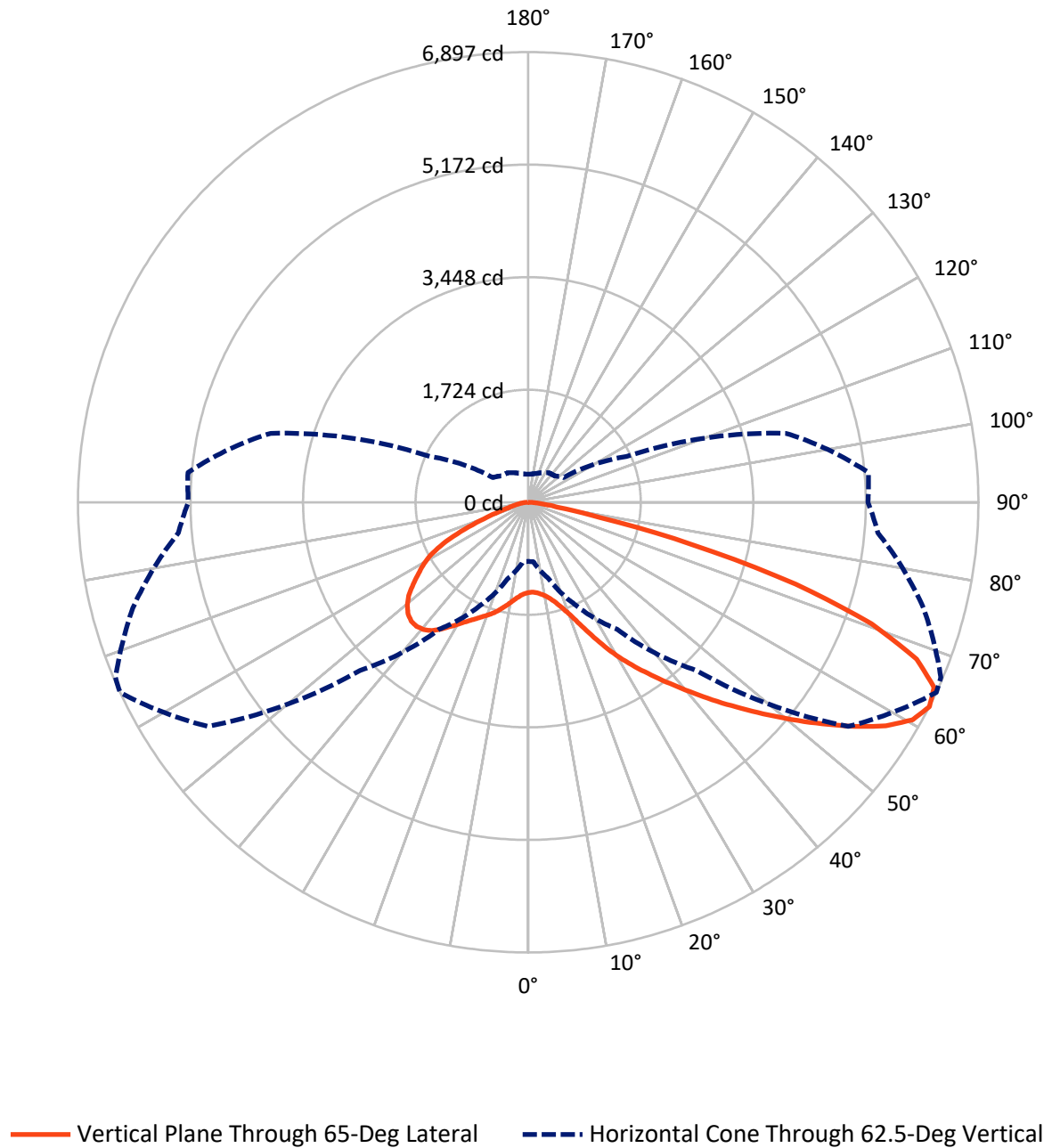


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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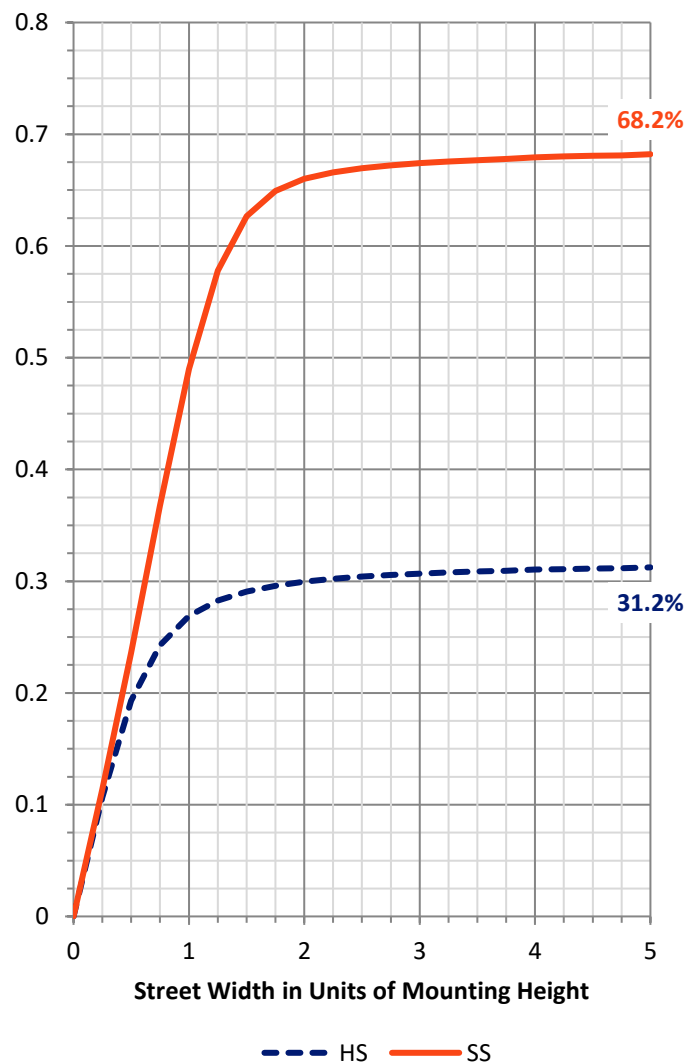
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3956.5	0.0	3956.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	8581.5	0.0	8581.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	12538.0	0.0	12538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	1.1
10°-20°	467.1	3.7
20°-30°	947.1	7.6
30°-40°	1639.0	13.1
40°-50°	2480.3	19.8
50°-60°	2908.0	23.2
60°-70°	2438.0	19.4
70°-80°	1346.0	10.7
80°-90°	174.8	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°	12538.0	100.0
0°-180°	12538.0	100.0

Coefficient of Utilization



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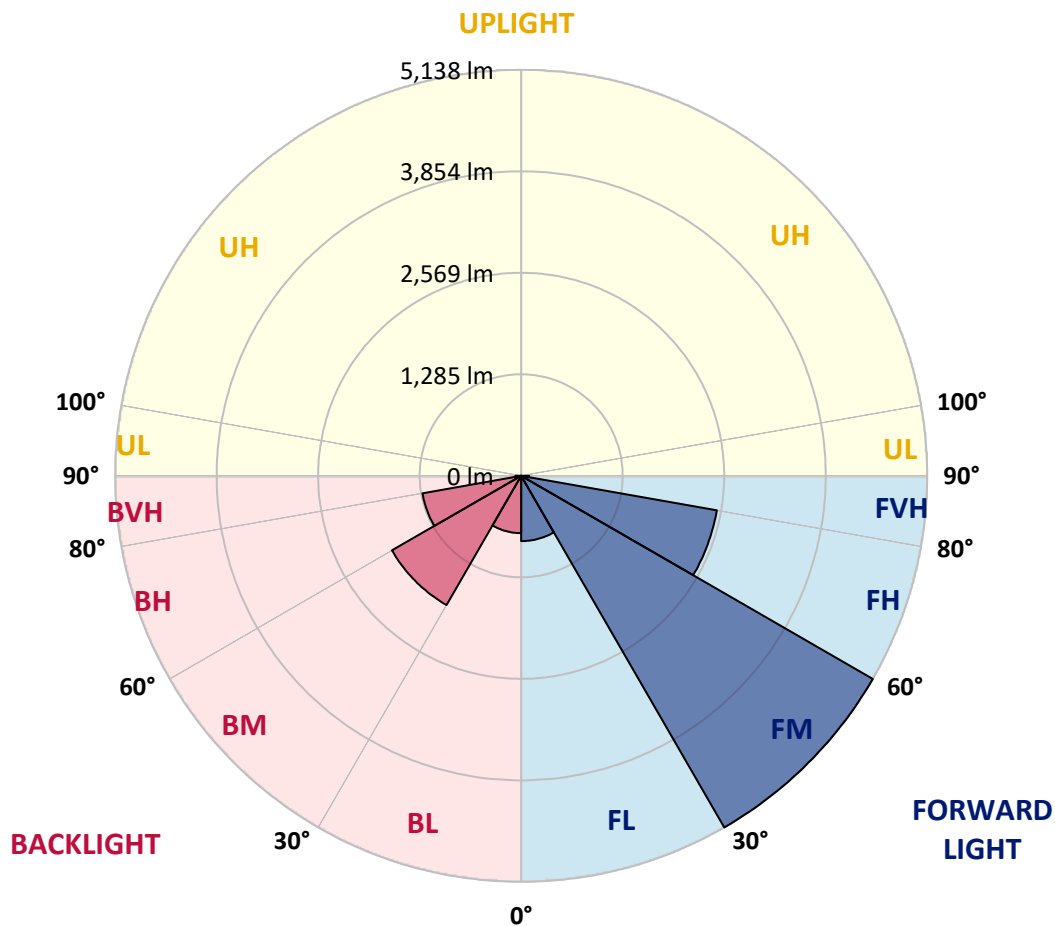
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	826.4	6.6			
FM	(30°-60°)	5138.5	41.0			
FH	(60°-80°)	2514.8	20.1			G2/5000
FVH	(80°-90°)	101.9	0.8			G2/225
BL	(0°-30°)	725.6	5.8	B2/1000		
BM	(30°-60°)	1888.8	15.1	B2/2500		
BH	(60°-80°)	1269.2	10.1	B3/2500		G3/2500
BVH	(80°-90°)	72.9	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°	1381.6	1381.6	1381.6	1381.6	1381.6	1381.6	1381.6	1381.6	1381.6	1381.6	1381.6
2.5°	1372.5	1368.6	1371.9	1371.9	1373.2	1372.5	1377.1	1378.4	1380.3	1384.2	1384.2
5°	1358.9	1358.2	1364.1	1369.3	1374.5	1379.0	1384.9	1393.3	1394.6	1399.2	1405.1
7.5°	1354.3	1350.4	1359.5	1366.0	1378.4	1389.4	1405.1	1419.4	1425.2	1427.2	1438.2
10°	1389.4	1382.9	1391.4	1395.3	1405.7	1416.8	1435.0	1457.7	1464.2	1472.1	1484.4
12.5°	1449.3	1442.1	1454.5	1460.3	1470.1	1479.9	1492.2	1514.3	1517.6	1531.9	1543.6
15°	1531.2	1522.8	1530.6	1537.7	1554.0	1563.1	1575.5	1596.9	1596.9	1608.0	1616.5
17.5°	1642.5	1631.4	1637.3	1639.9	1650.3	1663.9	1684.8	1703.6	1713.4	1709.5	1697.8
20°	1808.4	1794.7	1794.7	1781.7	1777.8	1788.8	1816.2	1842.2	1852.6	1832.4	1803.8
22.5°	2057.5	2038.0	2026.9	1982.7	1965.1	1966.4	1993.7	2025.6	2034.1	1998.3	1933.9
25°	2374.3	2343.7	2328.7	2263.7	2224.0	2189.5	2211.0	2252.0	2263.7	2219.5	2115.4
27.5°	2691.1	2693.0	2678.7	2600.6	2534.9	2471.8	2460.8	2503.7	2516.1	2466.0	2337.2
30°	3135.3	3089.2	3061.8	2968.2	2874.5	2786.0	2740.5	2758.1	2761.3	2701.5	2551.9
32.5°	3518.5	3506.8	3448.2	3366.3	3245.9	3107.4	3031.3	3003.3	2998.1	2912.9	2735.3
35°	3955.0	3948.5	3886.7	3789.1	3659.0	3466.4	3329.2	3249.2	3242.7	3123.0	2916.8
37.5°	4398.6	4398.6	4338.1	4231.4	4096.8	3856.1	3647.3	3520.4	3499.6	3343.5	3101.5
40°	4752.5	4731.0	4742.0	4697.2	4543.0	4287.4	4000.5	3816.4	3788.4	3601.1	3298.0
42.5°	4953.5	4946.3	5012.6	5062.7	4999.6	4795.4	4389.5	4137.1	4098.1	3884.7	3524.3
45°	4998.3	4990.5	5108.9	5292.4	5380.8	5296.9	4812.3	4474.7	4427.2	4181.3	3767.0
47.5°	4894.9	4879.3	5053.0	5342.4	5626.1	5773.7	5270.2	4840.9	4772.0	4470.1	4016.1
50°	4584.0	4569.0	4831.8	5216.3	5708.7	6097.7	5767.2	5229.3	5123.9	4779.8	4267.8
52.5°	3908.1	3915.3	4327.0	4855.2	5600.0	6299.3	6195.2	5638.4	5511.6	5096.6	4504.0
55°	3044.3	3059.9	3566.0	4147.5	5165.5	6268.7	6487.3	6059.9	5933.7	5394.5	4747.9
57.5°	2179.8	2248.7	2722.9	3298.6	4330.9	5784.1	6551.0	6460.6	6338.3	5719.7	4986.6
60°	1412.9	1425.2	1913.1	2493.3	3298.0	4922.9	6421.6	6764.4	6668.8	6051.5	5186.3
62.5°	905.5	913.9	1211.2	1744.0	2373.6	3642.1	5985.8	6896.5	6867.2	6270.7	5378.2
65°	665.4	658.9	813.8	1152.7	1598.9	2246.1	5139.5	6832.7	6890.6	6407.9	5536.9
67.5°	555.5	546.4	622.5	798.1	1178.0	1275.6	3802.7	6418.3	6630.4	6392.3	5653.4
70°	506.1	498.3	544.5	592.6	919.1	854.1	1917.0	5579.9	5906.4	6214.7	5634.5
72.5°	428.7	415.0	478.1	526.2	714.9	655.0	792.3	4286.1	4684.2	5645.6	5369.1
75°	332.4	323.3	377.3	463.1	537.3	511.3	500.9	2602.6	3037.1	4366.1	4697.2
77.5°	263.4	251.1	300.5	361.0	483.3	385.7	364.9	1120.8	1551.4	2787.3	3514.6
80°	198.4	187.3	228.3	285.6	371.4	290.8	236.1	457.3	584.8	1412.2	1767.4
82.5°	141.2	131.4	159.4	209.5	249.8	260.8	145.1	256.3	288.2	544.5	394.8
85°	90.4	84.6	106.7	131.4	158.7	167.8	88.5	134.0	147.0	224.4	164.6
87.5°	49.4	40.3	57.2	61.1	73.5	67.0	42.3	48.8	52.7	81.3	69.6
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°	1381.6	1381.6	1381.6	1381.6	1381.6	1381.6	1381.6	1381.6	1381.6	1381.6	1381.6
2.5°	1386.8	1388.8	1395.3	1397.2	1401.8	1407.7	1411.6	1415.5	1415.5	1419.4	1419.4
5°	1405.7	1410.3	1423.9	1431.1	1442.8	1454.5	1461.6	1470.1	1475.3	1477.9	1479.2
7.5°	1442.1	1449.3	1468.8	1481.2	1501.3	1517.6	1528.6	1540.4	1543.0	1550.1	1547.5
10°	1491.6	1500.0	1522.1	1545.6	1569.6	1589.8	1600.2	1608.7	1611.9	1613.2	1610.0
12.5°	1548.2	1560.5	1589.1	1617.8	1643.1	1660.7	1663.3	1661.3	1652.2	1644.4	1644.4
15°	1617.8	1628.8	1660.7	1691.9	1716.6	1719.9	1703.6	1693.2	1682.2	1680.2	1680.2
17.5°	1701.0	1706.9	1736.1	1766.7	1768.7	1757.6	1733.5	1723.8	1713.4	1706.2	1706.9
20°	1797.9	1796.0	1816.8	1829.8	1816.2	1782.3	1745.9	1729.6	1719.2	1710.8	1711.4
22.5°	1913.7	1898.8	1896.2	1892.9	1856.5	1785.6	1736.1	1715.3	1699.1	1687.4	1691.3
25°	2082.2	2025.0	1985.3	1963.2	1881.2	1768.0	1704.9	1658.7	1628.2	1608.0	1615.8
27.5°	2293.0	2196.7	2096.5	2042.5	1881.2	1732.2	1629.5	1554.7	1504.6	1483.8	1494.2
30°	2494.0	2393.1	2245.5	2138.1	1876.7	1673.7	1507.8	1403.7	1345.2	1324.4	1336.7
32.5°	2665.7	2555.8	2403.5	2242.9	1865.6	1578.7	1356.9	1241.8	1185.2	1160.5	1172.8
35°	2825.1	2708.0	2562.3	2358.0	1836.3	1439.5	1191.0	1103.2	1040.1	1000.4	1013.5
37.5°	2988.3	2849.1	2712.5	2462.1	1783.6	1276.9	1063.5	988.7	914.6	861.2	875.6
40°	3165.9	2999.4	2873.2	2523.9	1697.1	1122.1	964.7	896.4	817.7	761.1	772.1
42.5°	3373.4	3179.6	3052.1	2555.8	1578.7	1012.2	900.3	833.3	759.1	712.9	722.0
45°	3590.0	3378.0	3215.4	2555.1	1446.7	960.8	879.5	813.1	731.1	683.0	690.8
47.5°	3817.1	3585.5	3356.5	2513.5	1332.2	967.9	867.7	769.5	679.1	632.3	638.8
50°	4044.7	3812.5	3493.1	2435.4	1283.4	952.3	824.2	708.4	601.7	559.4	562.0
52.5°	4270.4	4053.8	3610.9	2324.2	1234.0	894.4	768.2	629.0	569.8	540.6	540.6
55°	4497.5	4292.6	3739.0	2162.2	1110.4	826.8	674.6	599.1	544.5	517.8	515.2
57.5°	4725.1	4568.4	3860.6	2000.2	954.9	743.5	623.2	562.7	519.1	496.3	492.4
60°	4961.9	4883.9	3986.2	1851.3	801.4	636.8	585.4	533.4	489.2	463.8	461.8
62.5°	5205.8	5231.2	4084.4	1659.4	660.2	571.8	551.6	498.3	455.3	431.3	430.6
65°	5451.7	5566.2	4148.8	1393.3	535.4	510.0	515.2	459.9	416.3	395.5	394.8
67.5°	5637.1	5807.5	4130.6	1054.4	439.1	451.4	469.7	419.6	378.6	362.3	363.0
70°	5657.9	5778.9	3951.1	722.0	367.5	394.2	418.9	379.9	337.6	325.9	326.5
72.5°	5380.8	5388.6	3450.8	471.6	310.9	346.1	365.6	339.6	298.6	286.9	286.2
75°	4654.2	4456.5	2533.6	310.9	260.2	297.3	315.5	297.3	257.6	260.2	251.1
77.5°	3526.3	3156.2	1538.4	221.2	217.3	249.8	274.5	261.5	227.7	255.6	225.1
80°	1816.8	1707.5	686.3	165.2	171.7	199.7	225.7	208.8	180.2	171.7	156.8
82.5°	416.3	484.0	270.6	118.4	124.2	143.8	172.4	156.8	129.4	109.3	108.0
85°	145.7	159.4	119.7	74.2	72.9	89.8	117.1	104.7	87.8	70.3	74.2
87.5°	46.2	60.5	44.9	29.9	31.2	40.3	54.0	49.4	41.0	26.7	28.0
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)