

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: P945909

Luminaire Tested: **GALN-SB1D-722-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945909
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-722-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8218 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

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

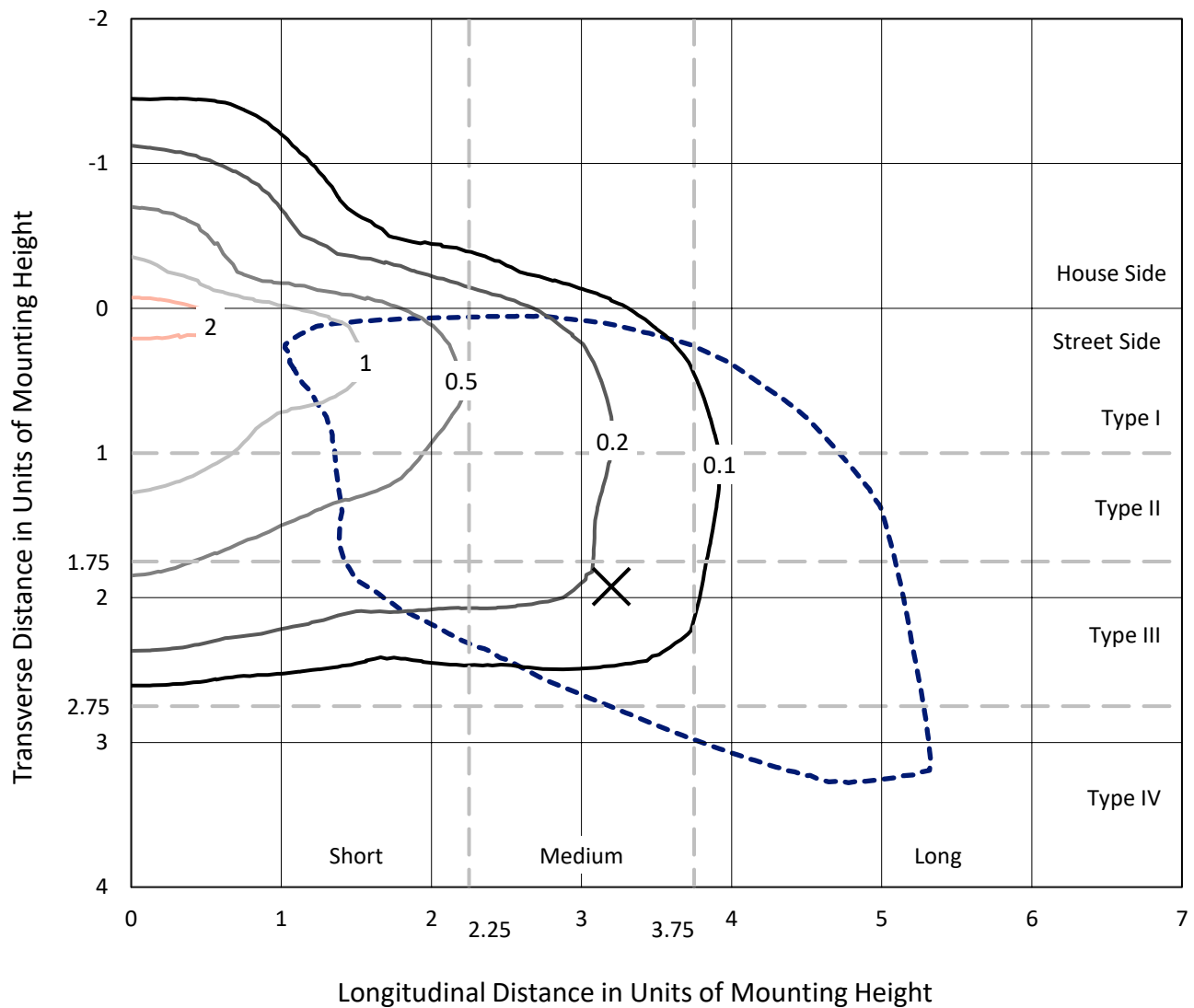


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Iso-Footcandle Lines of Horizontal Illumination

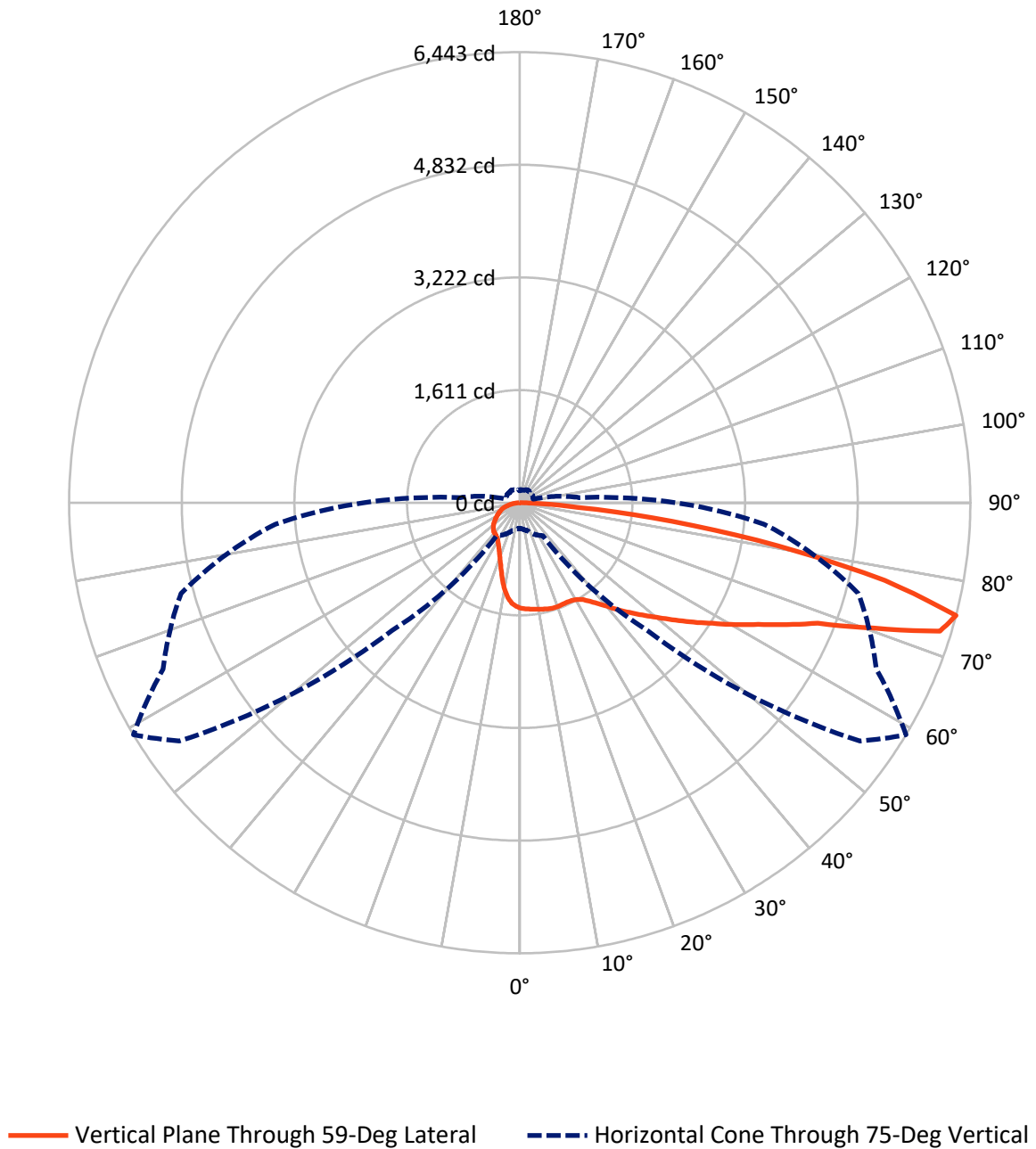
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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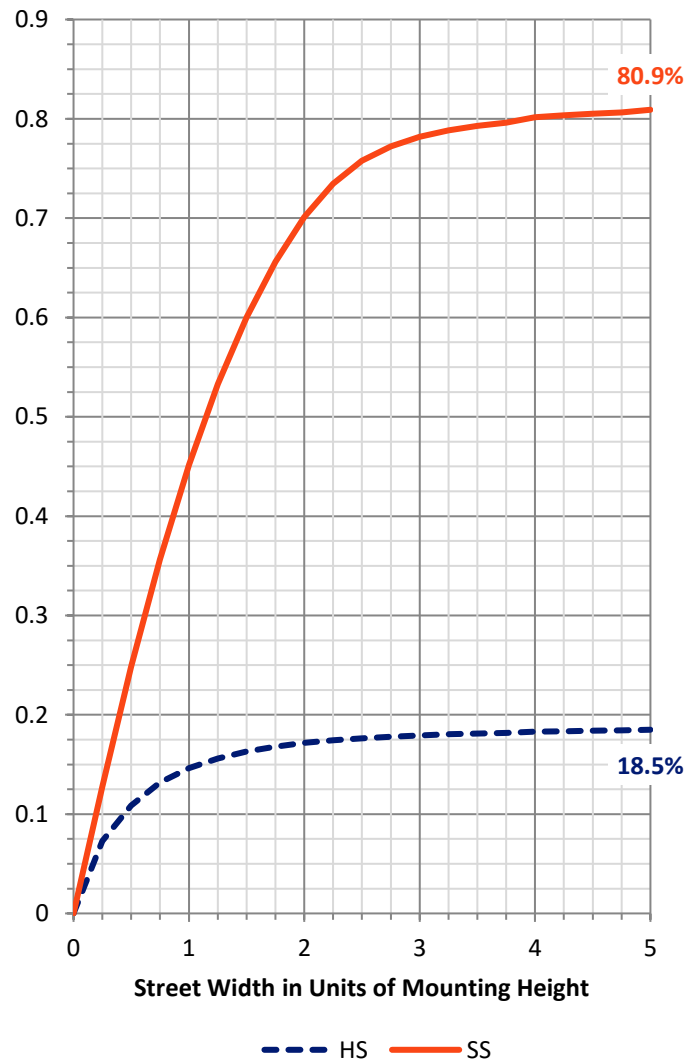
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1541.3	0.0	1541.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	6676.7	0.0	6676.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	8218.0	0.0	8218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	1.6
10°-20°	345.7	4.2
20°-30°	525.1	6.4
30°-40°	780.6	9.5
40°-50°	1160.8	14.1
50°-60°	1575.7	19.2
60°-70°	1923.7	23.4
70°-80°	1509.7	18.4
80°-90°	261.5	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°	8218.0	100.0
0°-180°	8218.0	100.0

Coefficient of Utilization



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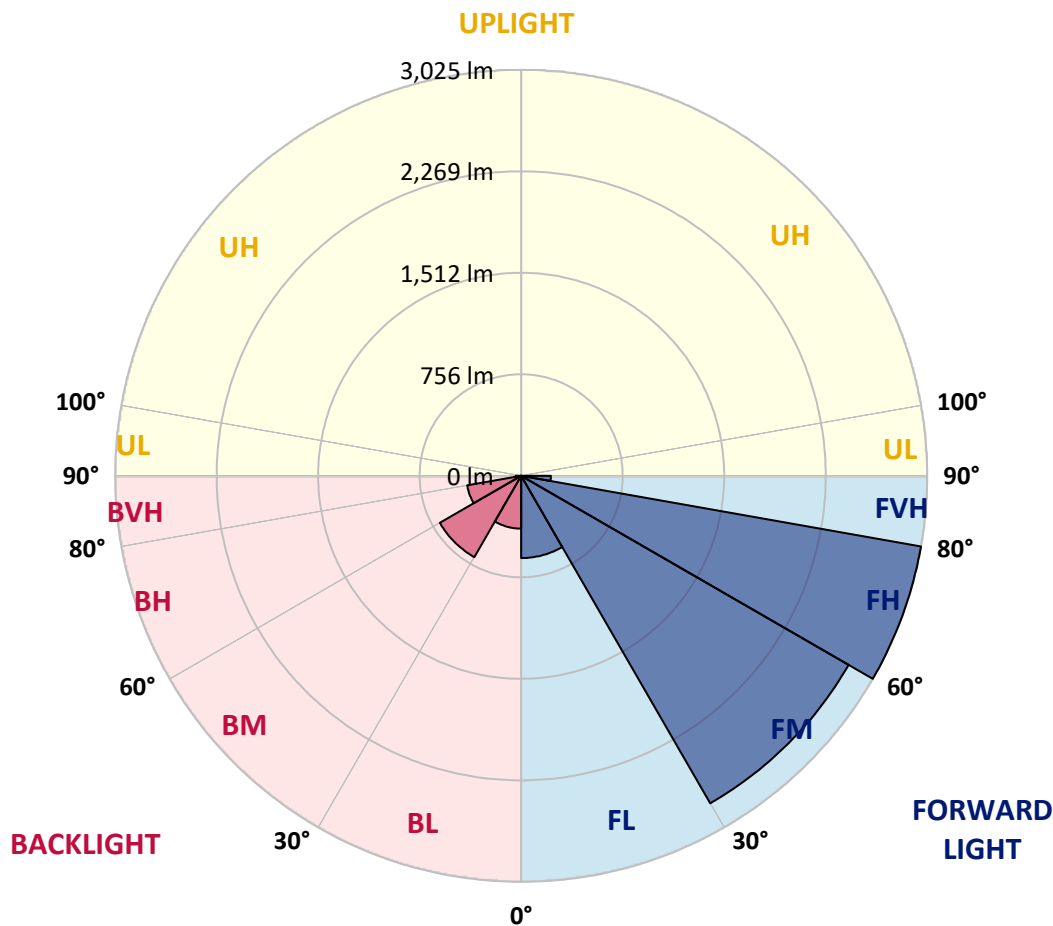
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	612.7	7.5			
FM	(30°-60°)	2817.5	34.3			
FH	(60°-80°)	3025.0	36.8			G2/5000
FVH	(80°-90°)	221.5	2.7			G2/225
BL	(0°-30°)	393.3	4.8	B1/500		
BM	(30°-60°)	699.6	8.5	B1/1000		
BH	(60°-80°)	408.4	5.0	B1/500		G1/500
BVH	(80°-90°)	40.0	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-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4
2.5°	1521.2	1515.9	1521.2	1519.0	1518.1	1516.4	1516.8	1519.9	1518.1	1520.3	1512.8
5°	1511.0	1508.0	1513.3	1511.9	1517.7	1518.6	1524.3	1527.8	1530.1	1530.5	1524.8
7.5°	1494.2	1491.2	1498.7	1504.9	1517.2	1520.8	1532.7	1538.5	1541.6	1546.9	1538.5
10°	1432.8	1431.5	1450.0	1473.5	1502.6	1520.8	1538.9	1548.6	1553.5	1567.6	1557.9
12.5°	1324.0	1325.8	1350.1	1395.2	1453.6	1511.9	1546.0	1560.1	1567.6	1585.3	1580.9
15°	1220.2	1219.7	1246.2	1294.4	1376.2	1473.0	1549.5	1573.8	1586.6	1612.7	1609.2
17.5°	1160.0	1158.3	1176.8	1213.5	1289.6	1413.3	1540.7	1581.3	1608.7	1641.5	1638.4
20°	1149.0	1145.4	1155.2	1173.3	1227.2	1347.9	1517.7	1581.3	1626.4	1668.9	1667.1
22.5°	1189.2	1183.5	1179.5	1177.3	1201.1	1294.0	1491.6	1576.0	1652.5	1708.2	1705.1
25°	1270.1	1261.3	1240.9	1221.0	1214.0	1269.7	1468.6	1574.7	1691.4	1761.3	1749.8
27.5°	1401.0	1389.9	1348.8	1301.1	1258.2	1282.0	1458.4	1582.7	1734.3	1817.4	1794.4
30°	1563.2	1551.3	1499.6	1426.2	1349.2	1328.0	1471.3	1606.1	1789.1	1892.1	1847.0
32.5°	1708.7	1695.4	1651.2	1576.5	1472.6	1407.6	1511.9	1650.7	1875.3	1996.0	1926.2
35°	1837.7	1822.3	1782.5	1713.5	1623.8	1519.4	1585.3	1729.9	1997.8	2164.9	2033.6
37.5°	1964.2	1946.1	1902.7	1829.8	1767.0	1668.4	1686.6	1831.6	2160.5	2370.0	2175.9
40°	2105.7	2079.6	2027.0	1954.9	1893.9	1843.1	1819.6	1956.2	2325.8	2599.0	2353.7
42.5°	2242.7	2217.9	2155.2	2093.7	2017.2	2002.6	1973.9	2102.1	2506.6	2850.6	2534.0
45°	2390.4	2360.7	2284.7	2206.9	2158.7	2108.7	2123.3	2248.0	2683.9	3107.0	2723.2
47.5°	2528.7	2495.6	2405.8	2319.2	2292.7	2198.0	2260.4	2408.5	2868.3	3366.9	2910.7
50°	2603.4	2570.7	2496.0	2417.8	2397.0	2308.1	2408.9	2584.9	3061.4	3626.0	3090.6
52.5°	2665.8	2630.4	2532.7	2489.4	2483.2	2427.9	2591.9	2786.5	3254.6	3855.0	3264.4
55°	2732.1	2692.7	2568.1	2529.2	2557.5	2562.3	2809.0	3015.0	3458.9	4078.2	3428.4
57.5°	2808.6	2758.6	2602.1	2562.8	2630.0	2719.7	3058.3	3252.0	3659.6	4285.1	3574.3
60°	2880.6	2830.2	2667.5	2616.3	2708.2	2902.3	3344.4	3538.9	3886.8	4469.5	3712.2
62.5°	2894.8	2853.2	2719.7	2719.3	2814.3	3115.4	3683.0	3828.5	4085.3	4651.6	3836.0
65°	2649.9	2623.8	2544.6	2715.3	2966.4	3422.2	4060.1	4198.9	4337.7	4810.8	3944.7
67.5°	2016.8	2020.3	2014.6	2343.9	2843.5	3862.9	4606.1	4595.5	4649.4	4989.4	4069.8
70°	922.2	943.0	1078.2	1618.0	2278.1	3913.8	5508.8	5371.3	5040.7	5220.6	4178.1
72.5°	498.2	514.1	569.4	783.8	1369.6	3479.7	6183.4	6281.2	5561.0	5376.2	4059.2
75°	365.6	374.4	412.9	498.2	575.2	2586.2	5941.6	6443.0	5626.0	5013.2	3505.3
77.5°	273.7	277.6	309.0	394.8	294.4	1363.4	4747.6	5336.0	4816.1	4118.9	2589.3
80°	198.5	202.9	226.3	296.2	206.5	498.7	3259.9	3745.3	3298.4	2625.5	1290.4
82.5°	137.0	138.8	149.0	201.6	144.1	193.6	1849.7	2196.3	1841.3	921.3	348.4
85°	82.7	84.9	89.3	117.6	81.8	92.0	798.4	825.8	550.4	220.2	108.3
87.5°	34.0	36.3	39.8	49.5	32.3	25.6	131.7	165.3	103.0	64.5	33.6
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°	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4
2.5°	1510.6	1507.5	1499.1	1487.6	1477.0	1463.7	1458.0	1453.1	1448.7	1440.3	1436.3
5°	1519.9	1511.5	1488.9	1459.8	1426.6	1390.4	1355.0	1330.7	1309.9	1294.4	1281.6
7.5°	1534.0	1518.1	1477.0	1417.3	1341.3	1263.5	1193.2	1143.2	1105.7	1092.0	1068.1
10°	1548.6	1529.6	1458.0	1352.8	1221.5	1101.7	1008.4	957.1	927.1	917.3	902.3
12.5°	1565.9	1538.0	1428.4	1263.0	1087.5	956.2	874.9	844.8	829.4	824.0	825.4
15°	1591.1	1545.1	1383.7	1150.7	959.8	850.1	797.5	776.7	768.8	768.3	770.1
17.5°	1610.1	1546.4	1314.3	1030.5	861.6	786.0	742.7	734.7	740.1	748.0	751.1
20°	1631.3	1534.5	1223.3	920.9	792.7	729.9	711.8	717.1	729.9	741.4	745.4
22.5°	1646.3	1512.8	1113.2	835.5	733.0	697.6	696.7	707.8	714.9	720.6	723.7
25°	1659.6	1476.1	996.5	763.9	683.9	678.2	687.9	684.3	679.5	684.3	687.4
27.5°	1669.3	1418.2	892.1	701.1	649.4	664.9	659.1	651.2	650.7	653.4	657.8
30°	1666.2	1340.8	806.4	641.5	625.1	640.1	626.4	625.1	623.8	625.1	630.0
32.5°	1666.2	1252.9	740.5	600.4	609.6	603.9	602.6	599.5	594.2	593.7	599.5
35°	1675.5	1164.9	683.9	578.2	596.8	583.1	584.0	576.5	565.4	560.1	565.4
37.5°	1694.5	1094.2	627.8	567.6	574.3	573.8	570.3	557.5	538.0	521.2	527.0
40°	1740.5	1073.4	589.3	562.8	563.7	569.0	559.7	534.9	490.7	463.3	466.8
42.5°	1812.6	1108.3	580.9	550.8	556.6	561.9	543.8	486.3	454.9	438.5	438.5
45°	1904.1	1169.3	599.0	533.6	539.8	549.1	495.1	467.7	453.6	454.0	456.2
47.5°	2019.9	1233.4	632.6	518.6	515.5	520.8	462.9	446.1	426.6	431.5	443.9
50°	2153.8	1298.4	664.5	498.2	488.5	471.3	442.1	426.2	401.4	389.9	393.0
52.5°	2298.8	1361.2	677.3	473.5	459.3	439.4	427.9	408.5	378.4	359.4	359.0
55°	2436.3	1418.2	663.1	443.9	430.1	414.7	412.9	401.0	368.7	342.2	342.2
57.5°	2566.3	1466.0	627.8	413.8	400.5	391.2	403.2	397.4	356.8	322.7	321.0
60°	2676.4	1498.7	576.5	383.3	374.0	369.1	387.3	385.5	340.0	301.9	300.6
62.5°	2763.9	1511.5	519.9	354.1	351.9	343.1	365.2	365.2	318.7	281.6	280.3
65°	2832.4	1499.1	462.4	325.4	329.8	316.5	338.2	335.5	296.2	263.5	261.7
67.5°	2893.0	1458.4	398.8	297.1	307.2	290.5	309.9	303.7	271.4	245.4	243.6
70°	2920.0	1363.8	326.3	268.8	281.2	264.8	281.6	270.1	243.6	225.9	222.4
72.5°	2703.4	1133.5	256.9	239.2	249.8	236.5	251.1	237.8	213.5	205.6	198.9
75°	2236.5	850.6	197.6	206.9	214.9	204.7	214.4	204.7	182.6	188.3	172.0
77.5°	1624.2	574.3	151.2	172.9	176.4	171.1	179.5	168.4	148.5	147.2	140.6
80°	807.7	336.4	118.5	136.6	135.3	131.7	141.5	136.2	119.4	126.4	125.1
82.5°	233.9	144.1	86.2	95.9	93.3	94.2	101.2	103.9	155.6	154.3	157.8
85°	73.4	56.6	51.7	53.5	50.8	52.2	59.7	118.5	109.6	64.1	69.4
87.5°	19.0	19.5	12.8	13.7	14.1	16.8	19.0	72.1	34.5	22.5	23.9
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)