

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: P949130

Luminaire Tested: **GALN-SB4A-722-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949130
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-SB4A-722-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15050 lumens
Efficiency: N/A
Efficacy: 132.0 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): 114
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



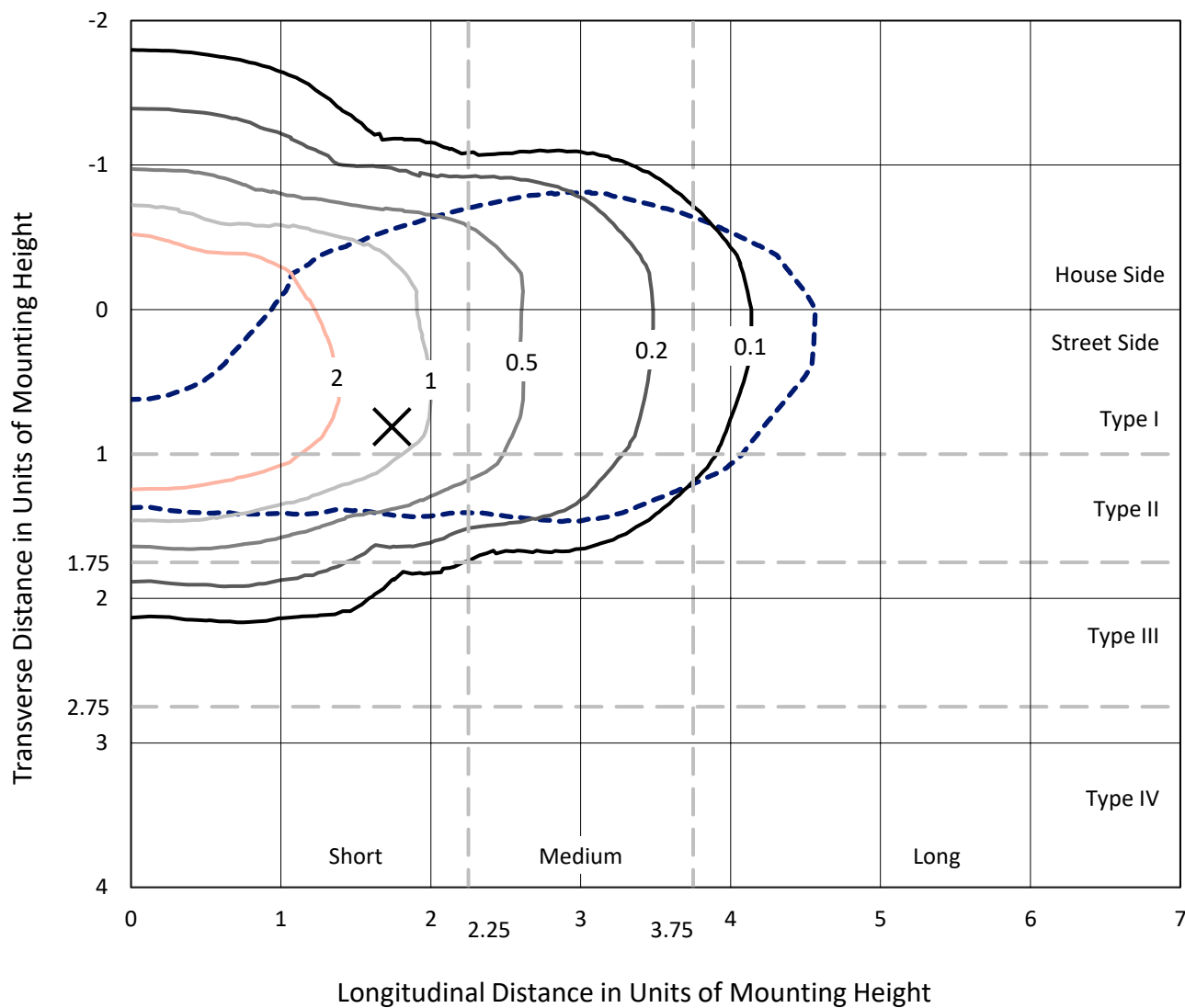
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

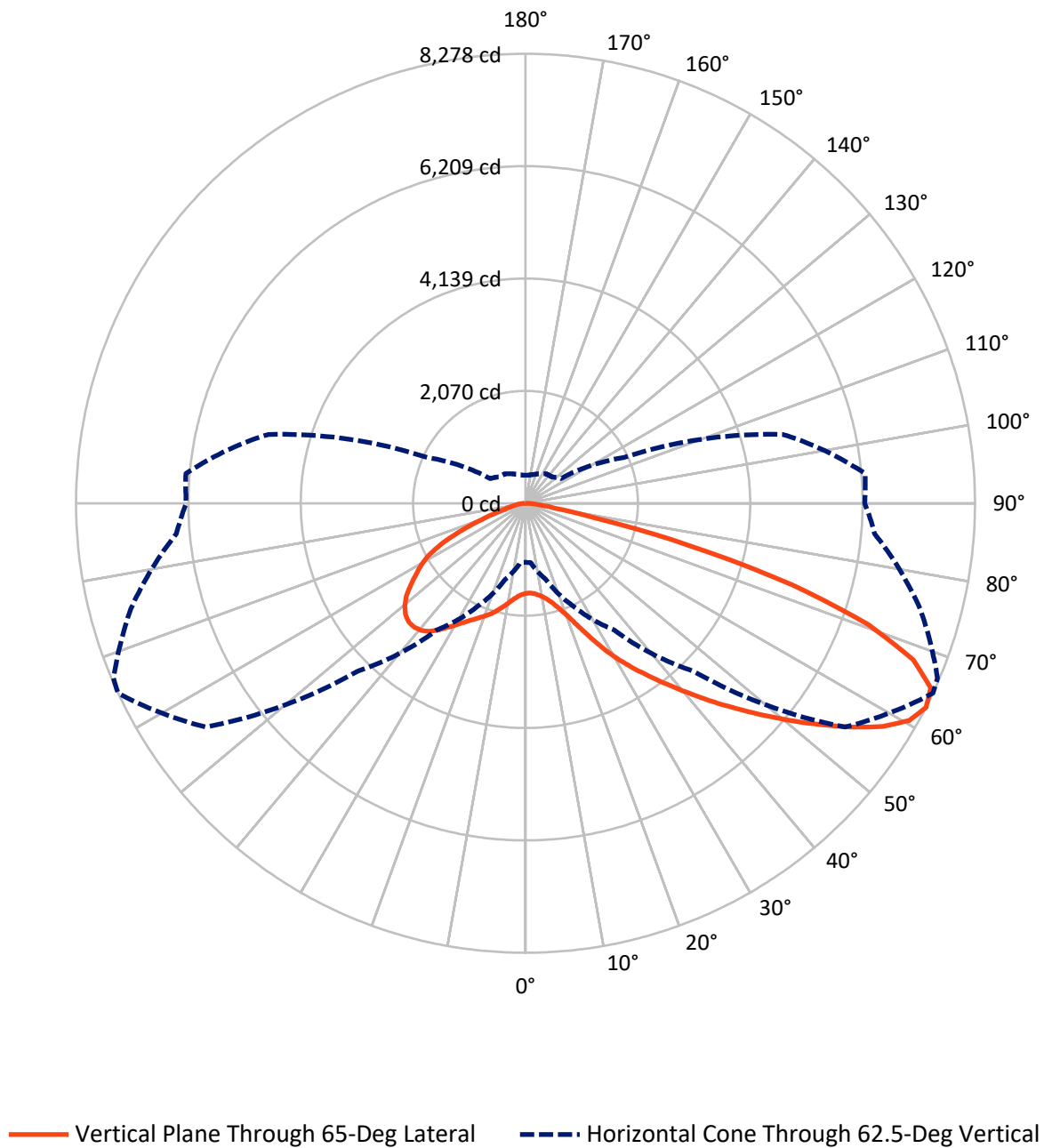


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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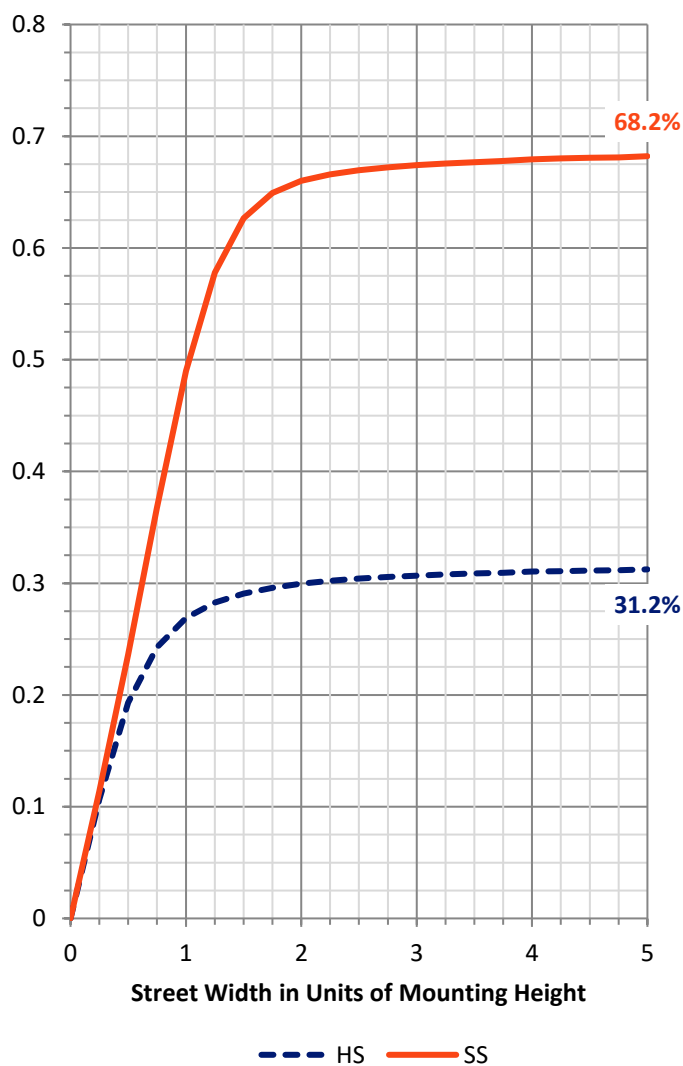
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4749.1	0.0	4749.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	10300.9	0.0	10300.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	15050.0	0.0	15050.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.3	1.1
10°-20°	560.7	3.7
20°-30°	1136.9	7.6
30°-40°	1967.3	13.1
40°-50°	2977.2	19.8
50°-60°	3490.6	23.2
60°-70°	2926.4	19.4
70°-80°	1615.6	10.7
80°-90°	209.9	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°	15050.0	100.0
0°-180°	15050.0	100.0

Coefficient of Utilization



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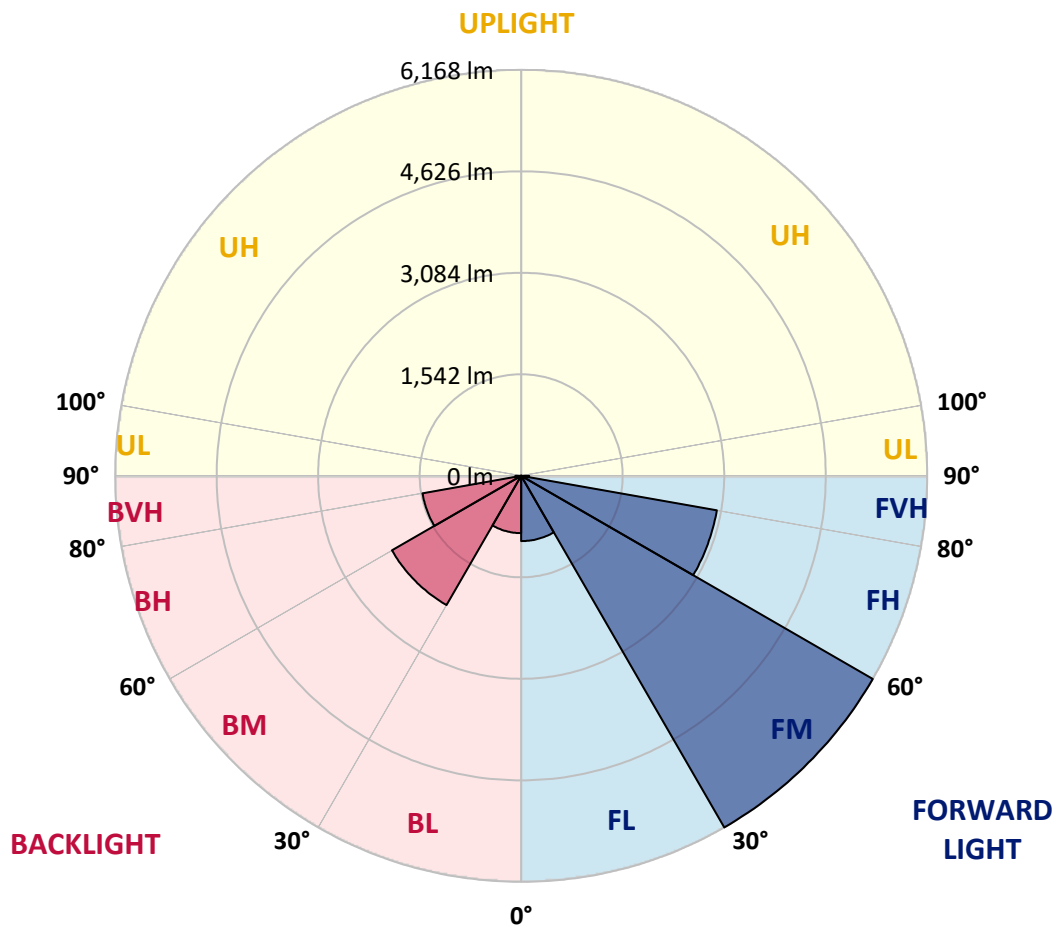
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	992.0	6.6			
FM	(30°-60°)	6168.0	41.0			
FH	(60°-80°)	3018.6	20.1			G2/5000
FVH	(80°-90°)	122.3	0.8			G2/225
BL	(0°-30°)	870.9	5.8	B2/1000		
BM	(30°-60°)	2267.2	15.1	B2/2500		
BH	(60°-80°)	1523.5	10.1	B3/2500		G3/2500
BVH	(80°-90°)	87.5	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°	1658.4	1658.4	1658.4	1658.4	1658.4	1658.4	1658.4	1658.4	1658.4	1658.4	1658.4
2.5°	1647.5	1642.8	1646.7	1646.7	1648.3	1647.5	1653.0	1654.5	1656.9	1661.6	1661.6
5°	1631.1	1630.3	1637.4	1643.6	1649.9	1655.3	1662.3	1672.5	1674.1	1679.5	1686.6
7.5°	1625.7	1621.0	1631.9	1639.7	1654.5	1667.8	1686.6	1703.7	1710.8	1713.1	1726.4
10°	1667.8	1660.0	1670.2	1674.8	1687.3	1700.6	1722.5	1749.8	1757.6	1767.0	1781.8
12.5°	1739.6	1731.1	1745.9	1752.9	1764.6	1776.3	1791.2	1817.7	1821.6	1838.8	1852.9
15°	1838.0	1827.9	1837.3	1845.8	1865.4	1876.3	1891.1	1916.9	1916.9	1930.2	1940.3
17.5°	1971.6	1958.3	1965.3	1968.4	1980.9	1997.3	2022.3	2044.9	2056.7	2052.0	2037.9
20°	2170.7	2154.3	2154.3	2138.6	2134.0	2147.2	2180.0	2211.3	2223.8	2199.5	2165.2
22.5°	2469.7	2446.3	2433.0	2379.9	2358.8	2360.4	2393.2	2431.4	2441.6	2398.7	2321.4
25°	2850.0	2813.3	2795.3	2717.2	2669.6	2628.2	2654.0	2703.2	2717.2	2664.1	2539.2
27.5°	3230.2	3232.6	3215.4	3121.7	3042.8	2967.1	2953.8	3005.3	3020.2	2960.1	2805.5
30°	3763.5	3708.1	3675.3	3562.8	3450.4	3344.2	3289.6	3310.6	3314.5	3242.7	3063.1
32.5°	4223.4	4209.4	4139.1	4040.7	3896.3	3729.9	3638.6	3605.0	3598.8	3496.5	3283.3
35°	4747.3	4739.5	4665.4	4548.2	4392.1	4160.9	3996.2	3900.2	3892.3	3748.7	3501.2
37.5°	5279.9	5279.9	5207.2	5079.2	4917.6	4628.7	4378.0	4225.8	4200.8	4013.4	3722.9
40°	5704.6	5678.8	5692.1	5638.2	5453.2	5146.3	4802.0	4581.0	4547.4	4322.6	3958.7
42.5°	5945.9	5937.3	6016.9	6077.1	6001.3	5756.1	5268.9	4966.0	4919.1	4663.0	4230.4
45°	5999.8	5990.4	6132.5	6352.7	6458.9	6358.2	5776.4	5371.2	5314.2	5019.1	4521.7
47.5°	5875.6	5856.9	6065.3	6412.8	6753.2	6930.5	6326.1	5810.8	5728.0	5365.7	4820.7
50°	5502.4	5484.4	5799.9	6261.3	6852.4	7319.3	6922.7	6276.9	6150.5	5737.4	5122.9
52.5°	4691.1	4699.7	5194.0	5828.0	6722.0	7561.4	7436.5	6768.1	6615.8	6117.7	5406.3
55°	3654.2	3672.9	4280.4	4978.5	6200.4	7524.7	7787.0	7274.0	7122.6	6475.3	5699.1
57.5°	2616.5	2699.3	3268.5	3959.5	5198.6	6943.0	7863.6	7755.0	7608.2	6865.7	5985.7
60°	1695.9	1710.8	2296.4	2992.9	3958.7	5909.2	7708.2	8119.7	8004.9	7263.9	6225.4
62.5°	1086.9	1097.0	1453.9	2093.4	2849.2	4371.8	7185.0	8278.2	8243.0	7527.0	6455.8
65°	798.8	791.0	976.8	1383.6	1919.2	2696.1	6169.2	8201.6	8271.1	7691.8	6646.3
67.5°	666.8	655.9	747.2	958.1	1414.1	1531.2	4564.6	7704.3	7958.8	7673.0	6786.0
70°	607.5	598.1	653.5	711.3	1103.3	1025.2	2301.1	6697.8	7089.8	7459.9	6763.4
72.5°	514.6	498.2	573.9	631.7	858.1	786.3	951.0	5144.8	5622.6	6776.7	6444.8
75°	399.0	388.1	452.9	555.9	645.0	613.7	601.2	3124.0	3645.6	5240.8	5638.2
77.5°	316.2	301.4	360.7	433.4	580.1	463.0	438.0	1345.3	1862.2	3345.8	4218.7
80°	238.1	224.9	274.1	342.8	445.8	349.0	283.4	548.9	702.0	1695.1	2121.5
82.5°	169.4	157.7	191.3	251.4	299.8	313.1	174.1	307.6	345.9	653.5	474.0
85°	108.5	101.5	128.1	157.7	190.5	201.4	106.2	160.8	176.5	269.4	197.5
87.5°	59.3	48.4	68.7	73.4	88.2	80.4	50.8	58.6	63.2	97.6	83.5
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°	1658.4	1658.4	1658.4	1658.4	1658.4	1658.4	1658.4	1658.4	1658.4	1658.4	1658.4
2.5°	1664.7	1667.0	1674.8	1677.2	1682.6	1689.7	1694.4	1699.0	1699.0	1703.7	1703.7
5°	1687.3	1692.8	1709.2	1717.8	1731.8	1745.9	1754.5	1764.6	1770.9	1774.0	1775.6
7.5°	1731.1	1739.6	1763.1	1777.9	1802.1	1821.6	1834.9	1849.0	1852.1	1860.7	1857.6
10°	1790.4	1800.6	1827.1	1855.2	1884.1	1908.3	1920.8	1930.9	1934.9	1936.4	1932.5
12.5°	1858.3	1873.2	1907.5	1941.9	1972.3	1993.4	1996.5	1994.2	1983.3	1973.9	1973.9
15°	1941.9	1955.2	1993.4	2030.9	2060.6	2064.5	2044.9	2032.5	2019.2	2016.8	2016.8
17.5°	2041.8	2048.9	2084.0	2120.7	2123.0	2109.8	2080.9	2069.2	2056.7	2048.1	2048.9
20°	2158.2	2155.8	2180.8	2196.4	2180.0	2139.4	2095.7	2076.2	2063.7	2053.5	2054.3
22.5°	2297.1	2279.2	2276.1	2272.2	2228.4	2143.3	2084.0	2059.0	2039.5	2025.4	2030.1
25°	2499.4	2430.7	2383.0	2356.5	2258.1	2122.2	2046.5	1991.1	1954.4	1930.2	1939.5
27.5°	2752.4	2636.8	2516.6	2451.7	2258.1	2079.3	1955.9	1866.1	1806.0	1781.0	1793.5
30°	2993.6	2872.6	2695.4	2566.5	2252.6	2009.0	1809.9	1685.0	1614.7	1589.7	1604.6
32.5°	3199.8	3067.8	2885.1	2692.2	2239.4	1895.0	1628.8	1490.6	1422.6	1393.0	1407.8
35°	3391.1	3250.5	3075.6	2830.4	2204.2	1727.9	1429.7	1324.3	1248.5	1200.9	1216.5
37.5°	3587.1	3420.0	3256.0	2955.4	2141.0	1532.7	1276.6	1186.8	1097.8	1033.8	1051.0
40°	3800.2	3600.3	3448.8	3029.6	2037.1	1346.9	1157.9	1076.0	981.5	913.6	926.8
42.5°	4049.3	3816.6	3663.6	3067.8	1895.0	1214.9	1080.6	1000.2	911.2	855.8	866.7
45°	4309.3	4054.8	3859.6	3067.0	1736.5	1153.3	1055.7	976.0	877.6	819.9	829.2
47.5°	4581.8	4303.8	4029.0	3017.1	1599.1	1161.8	1041.6	923.7	815.2	758.9	766.8
50°	4855.1	4576.3	4193.0	2923.4	1540.5	1143.1	989.3	850.3	722.3	671.5	674.6
52.5°	5126.0	4866.0	4334.3	2789.8	1481.2	1073.6	922.1	755.0	684.0	648.9	648.9
55°	5398.5	5152.6	4488.1	2595.4	1332.8	992.4	809.7	719.1	653.5	621.5	618.4
57.5°	5671.8	5483.6	4634.1	2401.0	1146.2	892.5	748.0	675.4	623.1	595.8	591.1
60°	5956.0	5862.3	4784.8	2222.2	962.0	764.4	702.7	640.3	587.2	556.7	554.4
62.5°	6248.8	6279.3	4902.7	1991.9	792.5	686.3	662.1	598.1	546.6	517.7	516.9
65°	6544.0	6681.4	4980.0	1672.5	642.6	612.2	618.4	552.0	499.7	474.7	474.0
67.5°	6766.5	6971.1	4958.2	1265.7	527.0	541.9	563.7	503.6	454.4	434.9	435.7
70°	6791.5	6936.7	4742.7	866.7	441.2	473.2	502.8	456.0	405.2	391.2	392.0
72.5°	6458.9	6468.2	4142.2	566.1	373.2	415.4	438.8	407.6	358.4	344.3	343.6
75°	5586.7	5349.3	3041.3	373.2	312.3	356.8	378.7	356.8	309.2	312.3	301.4
77.5°	4232.8	3788.5	1846.6	265.5	260.8	299.8	329.5	313.9	273.3	306.9	270.2
80°	2180.8	2049.6	823.8	198.3	206.1	239.7	270.9	250.6	216.3	206.1	188.2
82.5°	499.7	580.9	324.8	142.1	149.1	172.6	206.9	188.2	155.4	131.2	129.6
85°	174.9	191.3	143.7	89.0	87.5	107.8	140.5	125.7	105.4	84.3	89.0
87.5°	55.4	72.6	53.9	35.9	37.5	48.4	64.8	59.3	49.2	32.0	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

(END OF REPORT)