

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: P948080

Luminaire Tested: **GALN-SB3B-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948080
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-SB3B-727-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15881 lumens
Efficiency: N/A
Efficacy: 145.4 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): 109.2
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



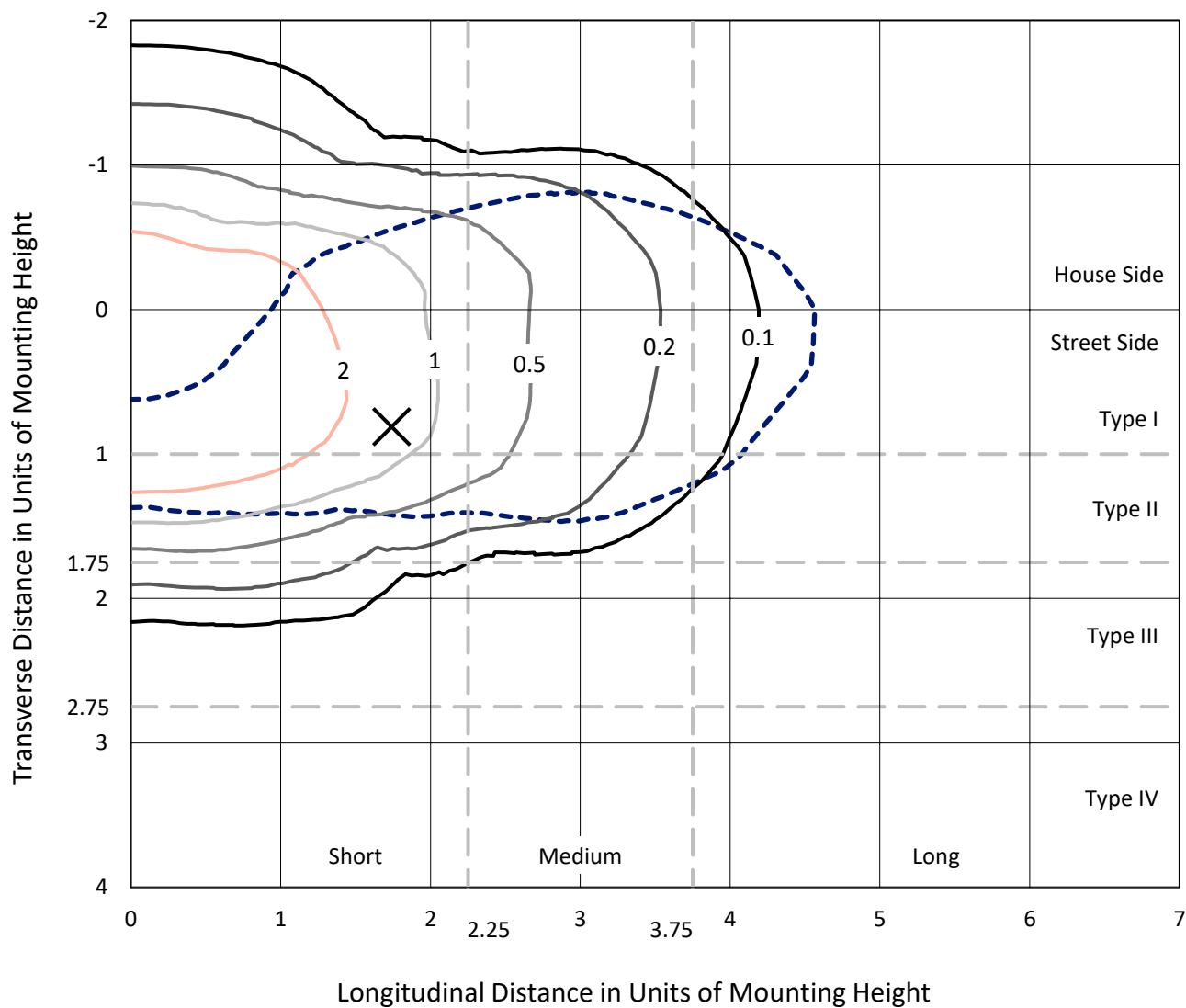
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

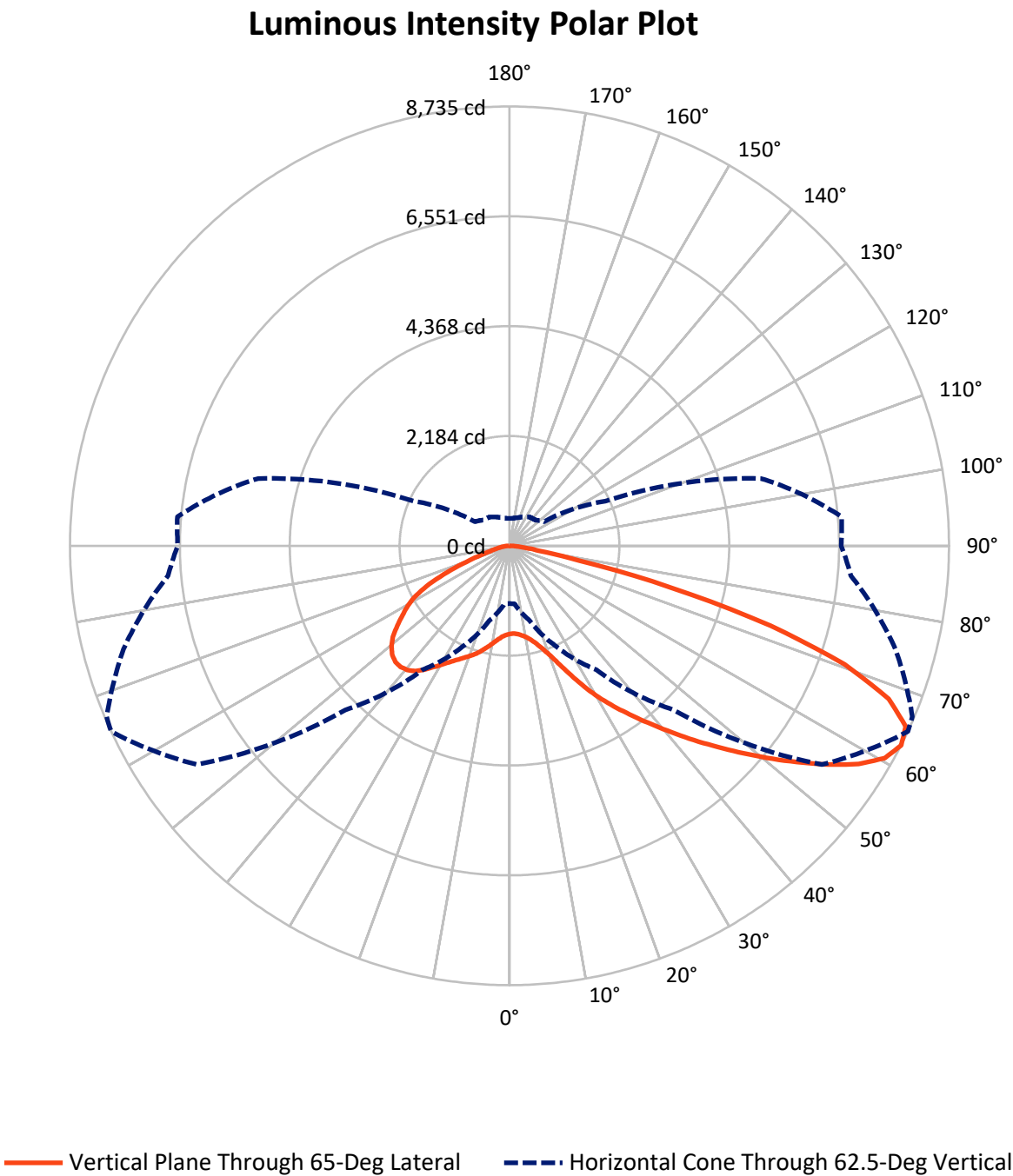
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc

Type II - Short - N/A

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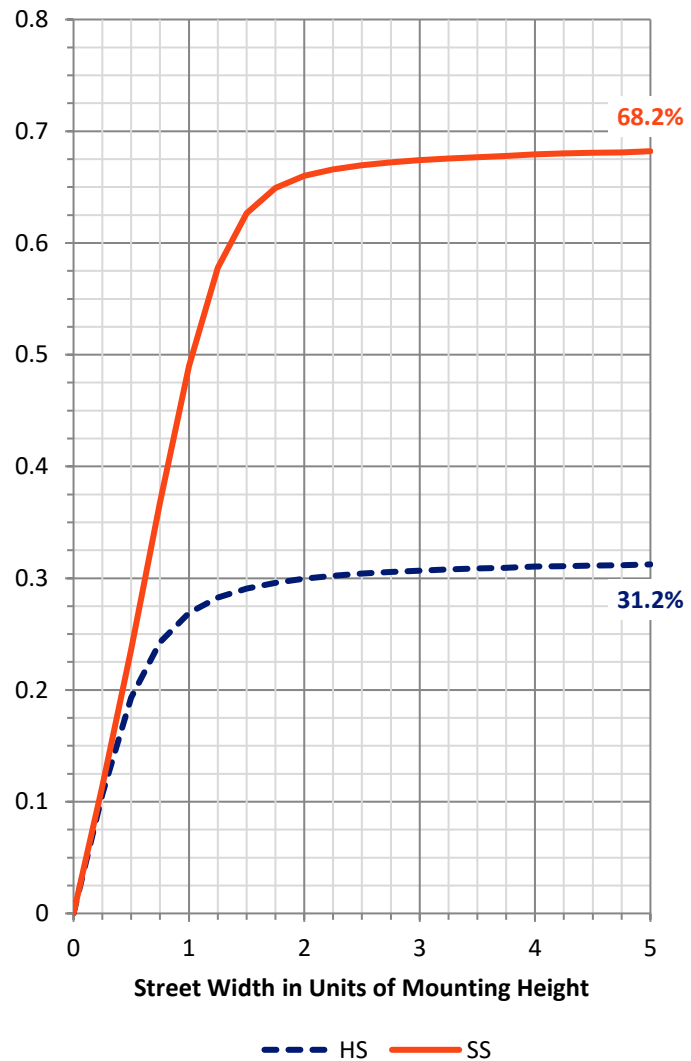
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5011.3	0.0	5011.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	10869.7	0.0	10869.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	15881.0	0.0	15881.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.5	1.1
10°-20°	591.7	3.7
20°-30°	1199.7	7.6
30°-40°	2076.0	13.1
40°-50°	3141.6	19.8
50°-60°	3683.3	23.2
60°-70°	3088.0	19.4
70°-80°	1704.8	10.7
80°-90°	221.5	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°	15881.0	100.0
0°-180°	15881.0	100.0

Coefficient of Utilization



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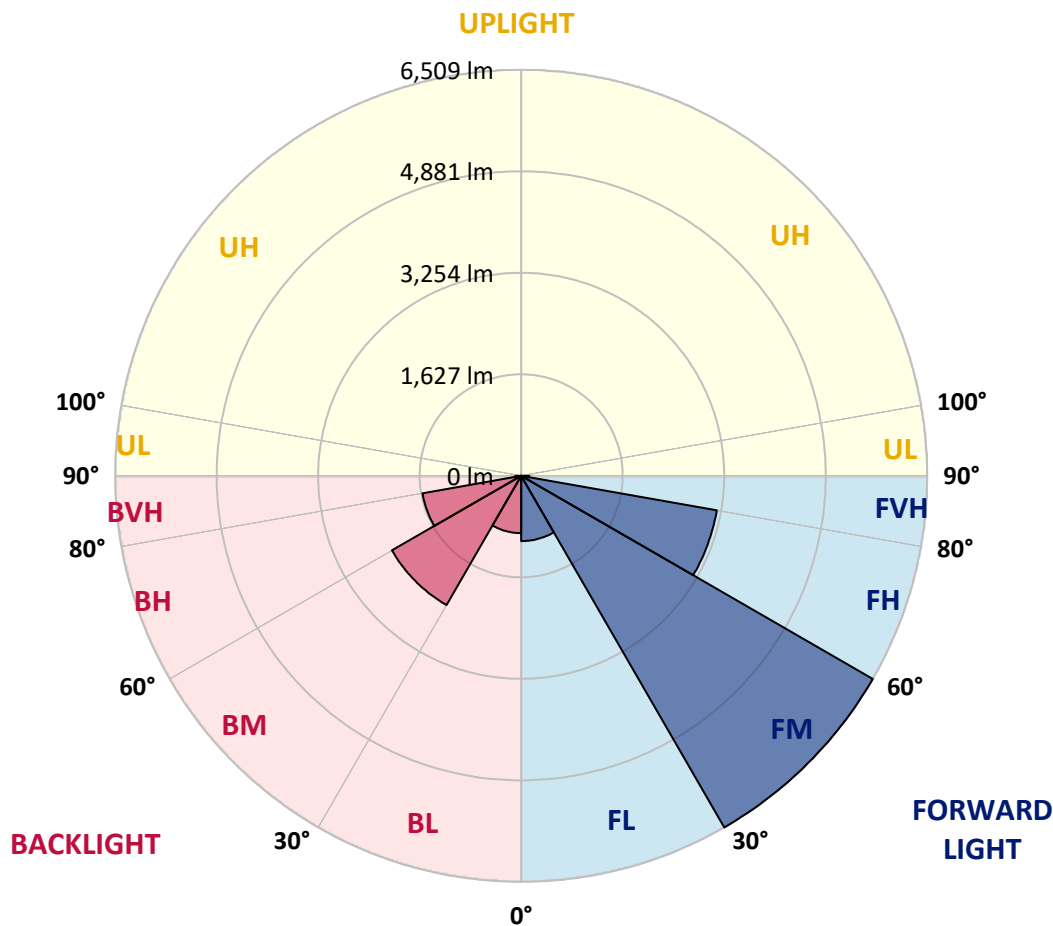
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1046.8	6.6			
FM	(30°-60°)	6508.6	41.0			
FH	(60°-80°)	3185.3	20.1			G2/5000
FVH	(80°-90°)	129.1	0.8			G2/225
BL	(0°-30°)	919.0	5.8	B2/1000		
BM	(30°-60°)	2392.3	15.1	B2/2500		
BH	(60°-80°)	1607.6	10.1	B3/2500		G3/2500
BVH	(80°-90°)	92.4	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°	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0
2.5°	1738.5	1733.5	1737.7	1737.7	1739.3	1738.5	1744.2	1745.9	1748.4	1753.3	1753.3
5°	1721.2	1720.4	1727.8	1734.4	1741.0	1746.7	1754.1	1764.8	1766.5	1772.3	1779.7
7.5°	1715.4	1710.5	1722.0	1730.2	1745.9	1759.9	1779.7	1797.8	1805.2	1807.7	1821.7
10°	1759.9	1751.7	1762.4	1767.3	1780.5	1794.5	1817.6	1846.4	1854.7	1864.5	1880.2
12.5°	1835.7	1826.6	1842.3	1849.7	1862.1	1874.4	1890.1	1918.1	1922.2	1940.3	1955.2
15°	1939.5	1928.8	1938.7	1947.8	1968.4	1979.9	1995.5	2022.7	2022.7	2036.7	2047.5
17.5°	2080.4	2066.4	2073.8	2077.1	2090.3	2107.6	2134.0	2157.9	2170.2	2165.3	2150.4
20°	2290.5	2273.2	2273.2	2256.7	2251.8	2265.8	2300.4	2333.4	2346.5	2321.0	2284.7
22.5°	2606.1	2581.4	2567.4	2511.3	2489.1	2490.7	2525.3	2565.7	2576.4	2531.1	2449.5
25°	3007.3	2968.6	2949.7	2867.3	2817.0	2773.3	2800.5	2852.4	2867.3	2811.2	2679.4
27.5°	3408.6	3411.1	3392.9	3294.1	3210.8	3130.9	3116.9	3171.3	3186.9	3123.5	2960.4
30°	3971.3	3912.8	3878.2	3759.6	3640.9	3528.9	3471.2	3493.4	3497.6	3421.8	3232.3
32.5°	4456.6	4441.8	4367.6	4263.8	4111.4	3935.9	3839.5	3804.1	3797.5	3689.5	3464.6
35°	5009.5	5001.2	4923.0	4799.4	4634.6	4390.7	4216.8	4115.5	4107.3	3955.7	3694.5
37.5°	5571.4	5571.4	5494.8	5359.6	5189.1	4884.2	4619.7	4459.1	4432.7	4235.0	3928.5
40°	6019.6	5992.4	6006.4	5949.6	5754.3	5430.5	5067.1	4834.0	4798.5	4561.3	4177.3
42.5°	6274.2	6265.1	6349.2	6412.6	6332.7	6074.0	5559.8	5240.2	5190.7	4920.5	4464.0
45°	6331.0	6321.2	6471.1	6703.5	6815.5	6709.2	6095.4	5667.8	5607.6	5296.2	4771.4
47.5°	6200.0	6180.3	6400.3	6766.9	7126.1	7313.2	6675.4	6131.7	6044.3	5662.0	5086.9
50°	5806.2	5787.3	6120.1	6607.1	7230.8	7723.5	7304.9	6623.5	6490.1	6054.2	5405.8
52.5°	4950.1	4959.2	5480.8	6149.8	7093.2	7978.9	7847.1	7141.8	6981.1	6455.5	5704.9
55°	3856.0	3875.7	4516.8	5253.3	6542.8	7940.2	8217.0	7675.7	7515.8	6832.8	6013.8
57.5°	2761.0	2848.3	3449.0	4178.1	5485.7	7326.3	8297.8	8183.2	8028.3	7244.8	6316.2
60°	1789.6	1805.2	2423.2	3158.1	4177.3	6235.5	8133.8	8568.0	8446.9	7665.0	6569.2
62.5°	1146.9	1157.6	1534.1	2208.9	3006.5	4613.2	7581.8	8735.3	8698.2	7942.6	6812.2
65°	842.9	834.6	1030.7	1460.0	2025.2	2845.0	6509.8	8654.5	8727.8	8116.5	7013.3
67.5°	703.6	692.1	788.5	1011.0	1492.1	1615.7	4816.7	8129.7	8398.3	8096.7	7160.7
70°	641.0	631.1	689.6	750.6	1164.2	1081.8	2428.1	7067.6	7481.2	7871.8	7136.8
72.5°	543.0	525.7	605.6	666.6	905.5	829.7	1003.5	5428.8	5933.1	7150.8	6800.7
75°	421.0	409.5	477.9	586.6	680.6	647.6	634.4	3296.5	3846.9	5530.2	5949.6
77.5°	333.7	318.0	380.7	457.3	612.2	488.6	462.2	1419.6	1965.1	3530.5	4451.7
80°	251.3	237.3	289.2	361.7	470.5	368.3	299.1	579.2	740.7	1788.7	2238.6
82.5°	178.8	166.4	201.9	265.3	316.4	330.4	183.7	324.6	365.0	689.6	500.1
85°	114.5	107.1	135.1	166.4	201.0	212.6	112.1	169.7	186.2	284.3	208.5
87.5°	62.6	51.1	72.5	77.4	93.1	84.9	53.6	61.8	66.7	103.0	88.2
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°	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0
2.5°	1756.6	1759.1	1767.3	1769.8	1775.6	1783.0	1787.9	1792.9	1792.9	1797.8	1797.8
5°	1780.5	1786.3	1803.6	1812.6	1827.5	1842.3	1851.4	1862.1	1868.7	1872.0	1873.6
7.5°	1826.6	1835.7	1860.4	1876.1	1901.6	1922.2	1936.2	1951.1	1954.4	1963.4	1960.1
10°	1889.3	1900.0	1928.0	1957.6	1988.1	2013.7	2026.9	2037.6	2041.7	2043.3	2039.2
12.5°	1960.9	1976.6	2012.8	2049.1	2081.2	2103.5	2106.8	2104.3	2092.8	2082.9	2082.9
15°	2049.1	2063.1	2103.5	2143.0	2174.3	2178.5	2157.9	2144.7	2130.7	2128.2	2128.2
17.5°	2154.6	2162.0	2199.1	2237.8	2240.3	2226.2	2195.8	2183.4	2170.2	2161.2	2162.0
20°	2277.3	2274.9	2301.2	2317.7	2300.4	2257.6	2211.4	2190.8	2177.6	2166.9	2167.7
22.5°	2424.0	2405.0	2401.7	2397.6	2351.5	2261.7	2199.1	2172.7	2152.1	2137.3	2142.2
25°	2637.4	2564.9	2514.6	2486.6	2382.8	2239.4	2159.5	2101.0	2062.3	2036.7	2046.6
27.5°	2904.3	2782.4	2655.5	2587.1	2382.8	2194.1	2063.9	1969.2	1905.7	1879.4	1892.6
30°	3158.9	3031.2	2844.2	2708.2	2377.0	2120.0	1909.9	1778.0	1703.9	1677.5	1693.2
32.5°	3376.4	3237.2	3044.4	2840.9	2363.0	1999.7	1718.7	1572.9	1501.2	1469.9	1485.5
35°	3578.3	3430.0	3245.4	2986.7	2325.9	1823.3	1508.6	1397.4	1317.5	1267.2	1283.7
37.5°	3785.1	3608.8	3435.8	3118.6	2259.2	1617.4	1347.1	1252.4	1158.4	1090.9	1109.0
40°	4010.0	3799.1	3639.3	3196.8	2149.6	1421.3	1221.9	1135.4	1035.7	964.0	978.0
42.5°	4272.9	4027.3	3865.9	3237.2	1999.7	1282.0	1140.3	1055.4	961.5	903.0	914.6
45°	4547.2	4278.6	4072.7	3236.4	1832.4	1216.9	1113.9	1029.9	926.1	865.1	875.0
47.5°	4834.8	4541.5	4251.5	3183.6	1687.4	1226.0	1099.1	974.7	860.2	800.9	809.1
50°	5123.2	4829.0	4424.5	3084.8	1625.6	1206.2	1043.9	897.3	762.1	708.6	711.9
52.5°	5409.1	5134.7	4573.6	2943.9	1563.0	1132.9	973.1	796.7	721.8	684.7	684.7
55°	5696.6	5437.1	4735.9	2738.7	1406.4	1047.2	854.4	758.8	689.6	655.8	652.5
57.5°	5985.0	5786.4	4890.0	2533.6	1209.5	941.7	789.3	712.7	657.5	628.7	623.7
60°	6284.9	6186.0	5049.0	2344.9	1015.1	806.6	741.5	675.6	619.6	587.5	585.0
62.5°	6593.9	6626.0	5173.4	2101.8	836.3	724.2	698.7	631.1	576.7	546.3	545.4
65°	6905.3	7050.3	5255.0	1764.8	678.1	646.0	652.5	582.5	527.3	500.9	500.1
67.5°	7140.1	7356.0	5231.9	1335.6	556.1	571.8	594.9	531.4	479.5	458.9	459.8
70°	7166.5	7319.8	5004.5	914.6	465.5	499.3	530.6	481.2	427.6	412.8	413.6
72.5°	6815.5	6825.4	4370.9	597.3	393.8	438.3	463.0	430.1	378.2	363.4	362.5
75°	5895.2	5644.7	3209.2	393.8	329.6	376.5	399.6	376.5	326.3	329.6	318.0
77.5°	4466.5	3997.7	1948.6	280.1	275.2	316.4	347.7	331.2	288.4	323.8	285.1
80°	2301.2	2162.8	869.2	209.3	217.5	252.9	285.9	264.5	228.2	217.5	198.6
82.5°	527.3	613.0	342.8	150.0	157.4	182.1	218.3	198.6	164.0	138.4	136.8
85°	184.6	201.9	151.6	93.9	92.3	113.7	148.3	132.7	111.2	89.0	93.9
87.5°	58.5	76.6	56.9	37.9	39.5	51.1	68.4	62.6	51.9	33.8	35.4
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)