

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: P949132

Luminaire Tested: **GALN-SB4A-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
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-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15246 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

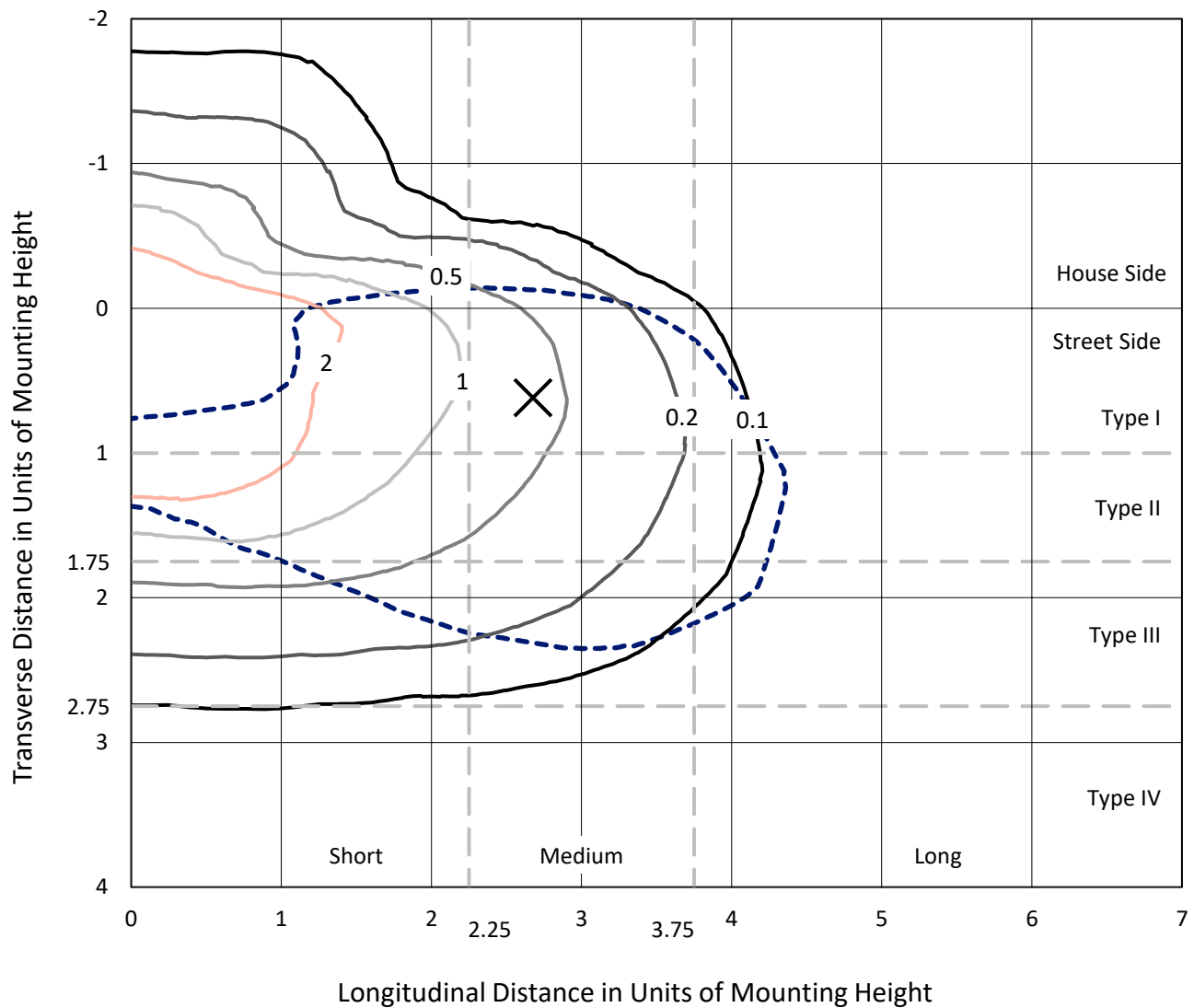
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

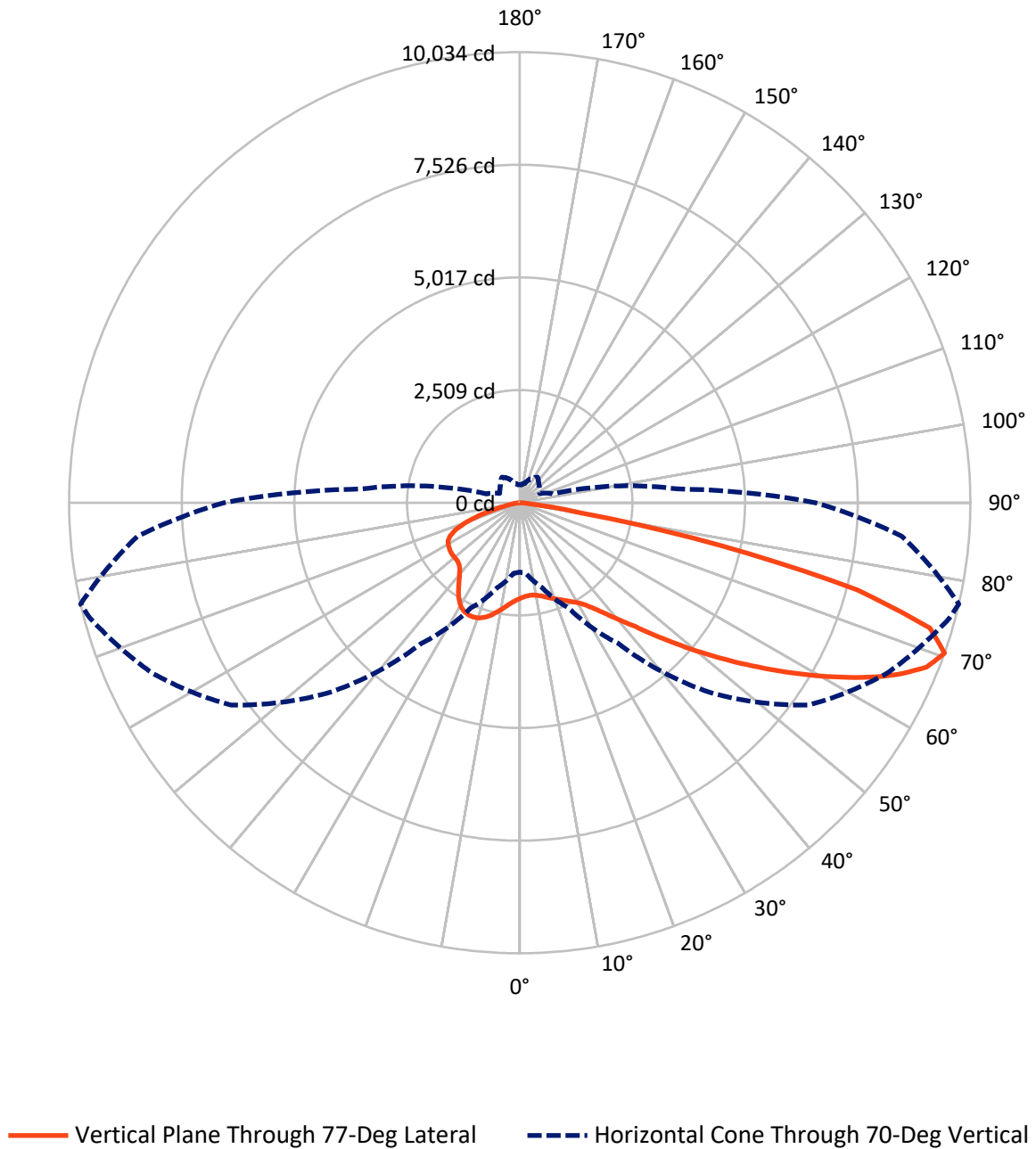


Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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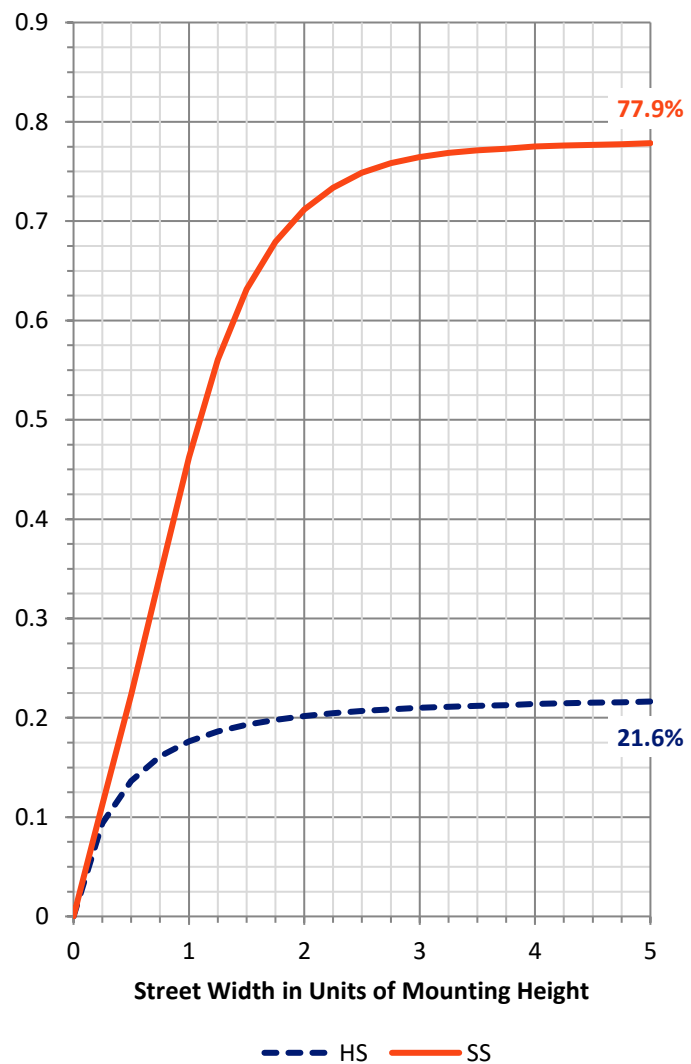
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3338.6	0.0	3338.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	11907.4	0.0	11907.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	15246.0	0.0	15246.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.9	1.3
10°-20°	585.5	3.8
20°-30°	1001.2	6.6
30°-40°	1610.1	10.6
40°-50°	2513.7	16.5
50°-60°	3357.7	22.0
60°-70°	3578.8	23.5
70°-80°	2203.1	14.5
80°-90°	193.1	1.3
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°	15246.0	100.0
0°-180°	15246.0	100.0

Coefficient of Utilization



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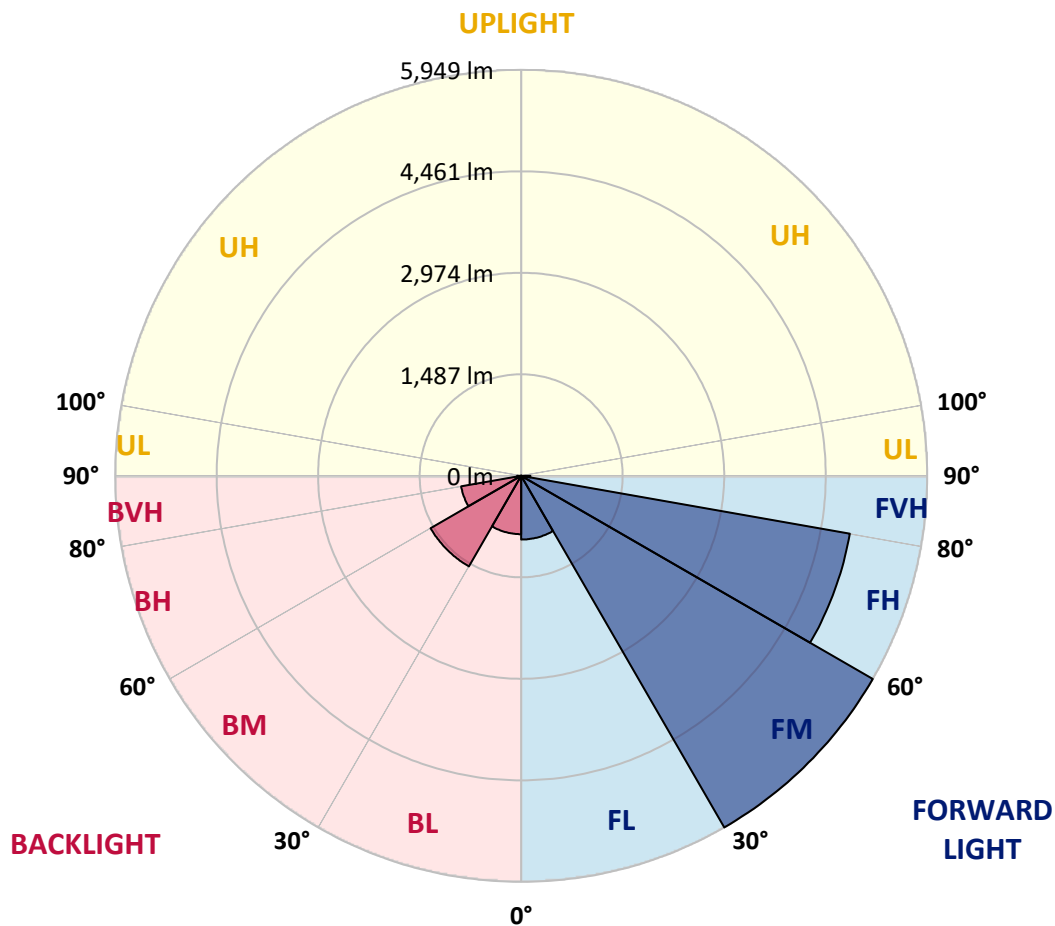
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	934.1	6.1			
FM	(30°-60°)	5948.7	39.0			
FH	(60°-80°)	4889.6	32.1			G2/5000
FVH	(80°-90°)	135.0	0.9			G2/225
BL	(0°-30°)	855.5	5.6	B2/1000		
BM	(30°-60°)	1532.8	10.1	B2/2500		
BH	(60°-80°)	892.3	5.9	B2/1000		G2/1000
BVH	(80°-90°)	58.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2127.0	2127.0	2127.0	2127.0	2127.0	2127.0	2127.0	2127.0	2127.0	2127.0	2127.0
2.5°	1960.6	1959.9	1970.0	1973.1	1991.9	2005.1	2030.1	2056.7	2091.0	2094.9	2116.0
5°	1847.4	1847.4	1859.1	1871.6	1895.8	1922.4	1960.6	2006.7	2066.1	2075.4	2127.7
7.5°	1751.4	1757.6	1767.8	1792.0	1820.1	1858.4	1916.9	1982.5	2060.6	2075.4	2159.8
10°	1674.1	1681.1	1693.6	1713.1	1755.3	1808.4	1884.9	1969.2	2073.9	2097.3	2206.6
12.5°	1649.9	1656.9	1663.9	1678.8	1717.8	1780.3	1871.6	1975.5	2105.9	2129.3	2270.6
15°	1706.1	1714.7	1709.2	1705.3	1725.6	1782.6	1877.9	1998.1	2145.7	2179.3	2349.5
17.5°	1835.7	1838.8	1826.3	1789.6	1786.5	1817.0	1907.5	2029.4	2195.7	2232.4	2429.1
20°	2045.0	2039.5	2013.7	1941.1	1899.7	1893.5	1958.3	2076.2	2247.2	2286.2	2515.0
22.5°	2329.2	2322.9	2271.4	2156.6	2064.5	2003.6	2031.7	2137.1	2305.0	2348.7	2598.6
25°	2683.7	2675.1	2599.4	2443.2	2300.3	2149.6	2131.6	2217.5	2376.0	2416.6	2686.0
27.5°	3097.5	3090.5	3008.5	2802.4	2596.2	2349.5	2255.8	2312.0	2450.2	2496.3	2784.4
30°	3542.6	3562.9	3417.7	3195.9	2935.1	2610.3	2422.9	2428.4	2546.3	2587.6	2903.9
32.5°	4065.7	4100.9	3926.0	3644.9	3288.8	2893.7	2633.7	2590.8	2686.0	2720.4	3054.6
35°	4584.2	4624.0	4478.8	4168.0	3758.1	3227.9	2853.9	2777.4	2871.9	2909.3	3254.5
37.5°	5032.4	5085.5	5010.5	4740.4	4260.2	3630.8	3141.2	2996.8	3100.6	3147.5	3523.1
40°	5386.1	5467.3	5461.8	5293.2	4852.0	4119.6	3505.9	3267.7	3384.9	3435.6	3848.7
42.5°	5673.4	5743.7	5804.6	5796.0	5469.7	4674.8	3934.6	3619.9	3708.9	3767.5	4214.9
45°	5871.8	5946.7	6077.9	6219.2	6063.9	5269.0	4425.7	4037.6	4118.8	4207.1	4651.3
47.5°	6049.0	6134.1	6304.3	6528.4	6568.3	5865.5	4963.7	4524.1	4598.3	4689.6	5089.4
50°	6064.6	6138.0	6402.0	6719.7	6926.7	6438.6	5541.5	5069.9	5139.4	5237.0	5558.7
52.5°	5687.5	5803.1	6263.7	6714.3	7091.4	6918.1	6115.4	5637.5	5715.6	5832.7	6044.3
55°	4414.8	4584.2	5858.5	6505.0	7032.9	7228.1	6661.2	6241.1	6341.0	6463.6	6533.1
57.5°	3802.6	3876.8	4650.6	6124.0	6765.8	7308.5	7121.9	6850.9	7011.8	7146.1	7050.0
60°	3417.7	3479.3	3936.9	5531.3	6414.4	7181.2	7477.9	7419.4	7697.3	7857.4	7578.6
62.5°	3005.4	3063.9	3480.1	4618.6	5964.7	6969.6	7702.8	7944.1	8400.1	8575.0	8076.8
65°	2596.2	2646.2	3045.2	3880.7	5393.1	6758.0	7819.1	8397.7	9050.5	9231.6	8490.6
67.5°	2140.2	2181.6	2558.8	3274.0	4698.2	6468.3	7876.9	8754.6	9616.6	9772.0	8695.2
70°	1544.5	1576.5	1966.1	2589.2	3826.0	5970.2	7853.5	9007.5	9910.2	10034.3	8540.6
72.5°	730.1	759.0	1216.5	1681.1	2702.4	5000.4	7379.5	8806.9	9611.9	9550.2	7594.3
75°	389.6	414.6	698.8	922.1	1427.3	3427.8	6038.9	7586.5	8071.3	7771.5	5612.5
77.5°	263.9	283.4	432.6	553.6	652.0	1627.2	3881.5	5252.6	5053.5	4558.4	2811.0
80°	209.3	229.6	354.5	374.8	315.5	588.0	1603.8	2431.5	1746.7	1396.9	799.6
82.5°	160.8	183.5	298.3	271.7	171.8	241.3	466.9	769.1	447.4	340.4	193.6
85°	98.4	122.6	234.2	173.3	96.8	110.1	158.5	213.9	136.6	114.0	69.5
87.5°	50.0	70.3	118.7	63.2	43.7	25.8	42.2	42.2	35.9	31.2	18.0
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°	2127.0	2127.0	2127.0	2127.0	2127.0	2127.0	2127.0	2127.0	2127.0	2127.0	2127.0
2.5°	2134.8	2150.4	2176.9	2201.9	2221.4	2240.2	2258.9	2269.1	2272.2	2284.7	2291.7
5°	2159.8	2188.6	2240.2	2288.6	2319.0	2337.8	2351.1	2358.9	2360.4	2364.3	2370.6
7.5°	2205.8	2251.9	2323.7	2372.1	2394.8	2393.2	2387.8	2368.2	2360.4	2353.4	2355.0
10°	2270.6	2331.5	2419.8	2453.3	2439.3	2401.8	2353.4	2296.4	2269.8	2244.1	2236.3
12.5°	2351.1	2428.4	2515.0	2513.5	2444.0	2347.9	2235.5	2148.0	2092.6	2052.8	2043.4
15°	2448.7	2537.7	2604.0	2550.9	2398.7	2226.1	2061.4	1947.4	1897.4	1853.7	1849.0
17.5°	2549.4	2644.6	2675.1	2539.2	2284.7	2045.8	1859.1	1769.3	1720.1	1696.7	1703.8
20°	2647.8	2742.2	2717.3	2472.1	2111.3	1841.2	1674.9	1625.7	1615.5	1621.0	1618.6
22.5°	2751.6	2835.9	2725.8	2342.5	1890.4	1631.9	1540.6	1542.1	1564.8	1581.2	1585.1
25°	2857.8	2914.8	2703.2	2155.1	1653.0	1478.1	1455.5	1480.4	1524.9	1557.0	1565.5
27.5°	2960.1	2985.1	2654.0	1923.2	1449.2	1368.0	1371.9	1423.4	1490.6	1535.1	1546.0
30°	3075.7	3047.5	2559.5	1662.4	1307.9	1273.5	1306.3	1366.4	1433.6	1473.4	1482.8
32.5°	3206.1	3101.4	2409.6	1421.1	1207.9	1197.8	1251.7	1290.7	1320.4	1332.1	1338.3
35°	3368.5	3177.2	2217.5	1251.7	1118.1	1142.3	1193.9	1174.4	1162.6	1156.4	1162.6
37.5°	3579.3	3279.4	1992.7	1141.6	1045.5	1102.5	1123.6	1062.7	1016.6	994.0	999.5
40°	3833.0	3429.4	1776.4	1056.5	999.5	1068.2	1031.5	958.1	899.5	867.5	869.8
42.5°	4114.9	3586.3	1594.4	992.4	973.7	1040.1	963.5	876.1	781.6	771.5	781.6
45°	4410.9	3747.9	1470.3	943.2	961.2	1015.8	924.5	783.2	716.0	757.4	779.3
47.5°	4706.8	3896.3	1395.3	906.5	954.9	988.5	890.1	731.6	684.0	744.1	772.2
50°	5036.3	4029.0	1361.8	880.0	947.9	977.6	838.6	718.4	650.4	690.2	719.9
52.5°	5363.5	4132.1	1336.8	853.4	937.8	969.0	813.6	702.7	609.8	612.2	628.6
55°	5689.8	4199.3	1309.4	818.3	915.1	950.3	811.3	685.6	579.4	568.4	576.2
57.5°	6038.1	4237.5	1275.9	779.3	876.1	902.6	808.9	672.3	570.0	552.0	554.4
60°	6392.6	4293.7	1232.1	731.6	823.8	845.6	803.5	667.6	564.5	534.1	536.4
62.5°	6710.4	4313.3	1179.8	686.3	756.6	789.4	791.8	663.7	549.7	497.4	497.4
65°	6918.9	4228.9	1088.5	634.8	684.0	731.6	769.1	650.4	523.1	470.8	470.8
67.5°	6910.3	3988.4	945.6	568.4	613.7	667.6	736.3	627.8	491.1	438.0	440.4
70°	6588.6	3513.7	764.4	491.1	536.4	598.9	694.1	594.2	452.9	402.1	406.8
72.5°	5650.8	2750.1	555.2	400.6	446.6	527.8	639.5	553.6	413.8	370.1	367.8
75°	4036.8	1740.4	376.4	307.6	347.5	447.4	571.6	506.0	377.9	371.7	350.6
77.5°	2062.1	831.6	249.1	224.9	242.1	352.9	480.2	452.1	383.4	306.9	273.3
80°	670.7	306.9	156.9	153.0	160.8	235.0	371.7	370.9	290.5	208.5	184.3
82.5°	213.9	132.0	102.3	98.4	94.5	147.6	259.2	293.6	196.0	132.0	131.2
85°	85.1	78.9	60.1	55.4	39.8	69.5	135.9	195.2	146.0	95.3	97.6
87.5°	31.2	31.2	16.4	11.7	8.6	23.4	36.7	58.6	83.5	49.2	48.4
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)