

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: P949487

Luminaire Tested: **GALN-SB4B-722-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949487
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-SB4B-722-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18893 lumens
Efficiency: N/A
Efficacy: 128.5 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): 147
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

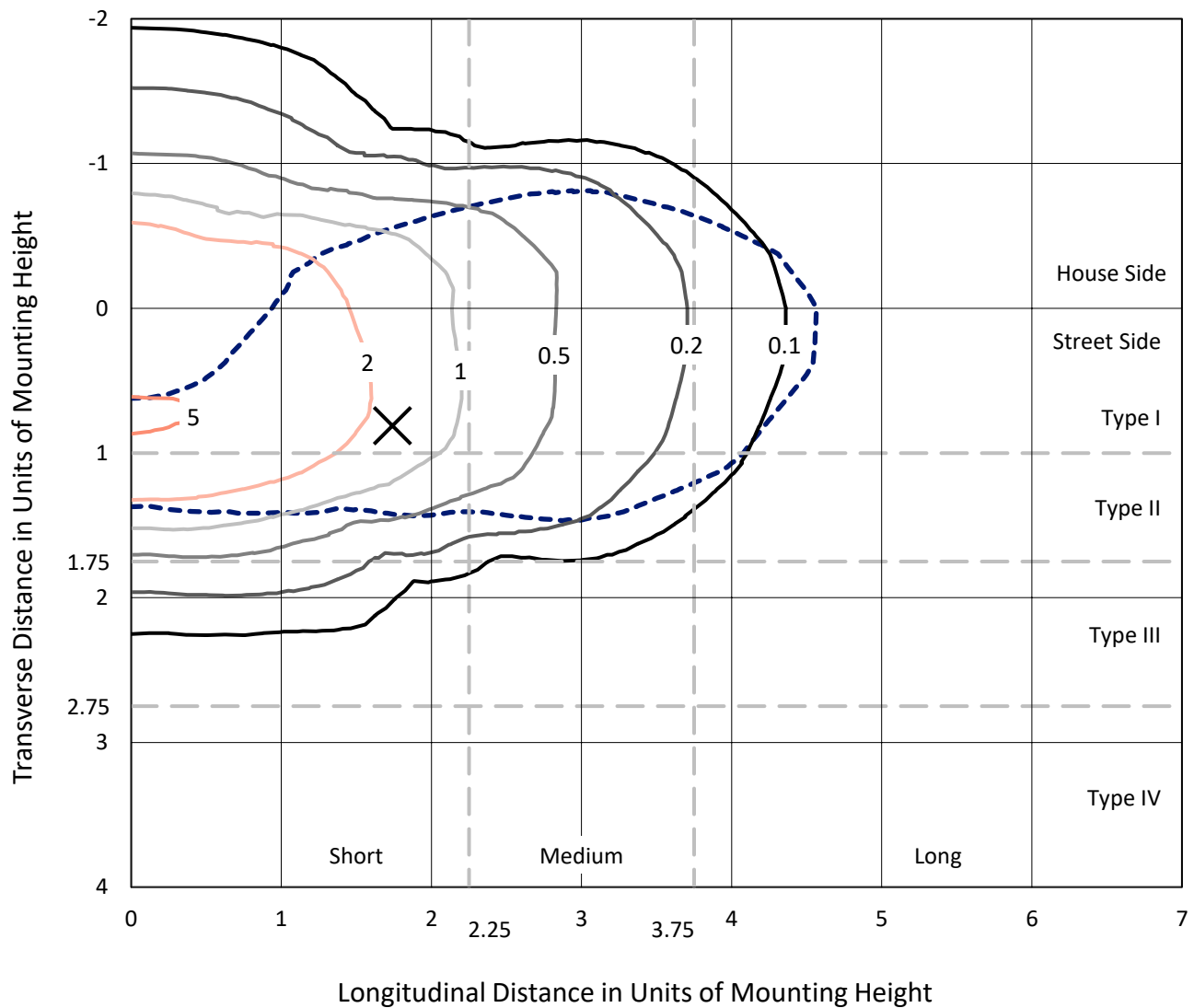


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Iso-Footcandle Lines of Horizontal Illumination

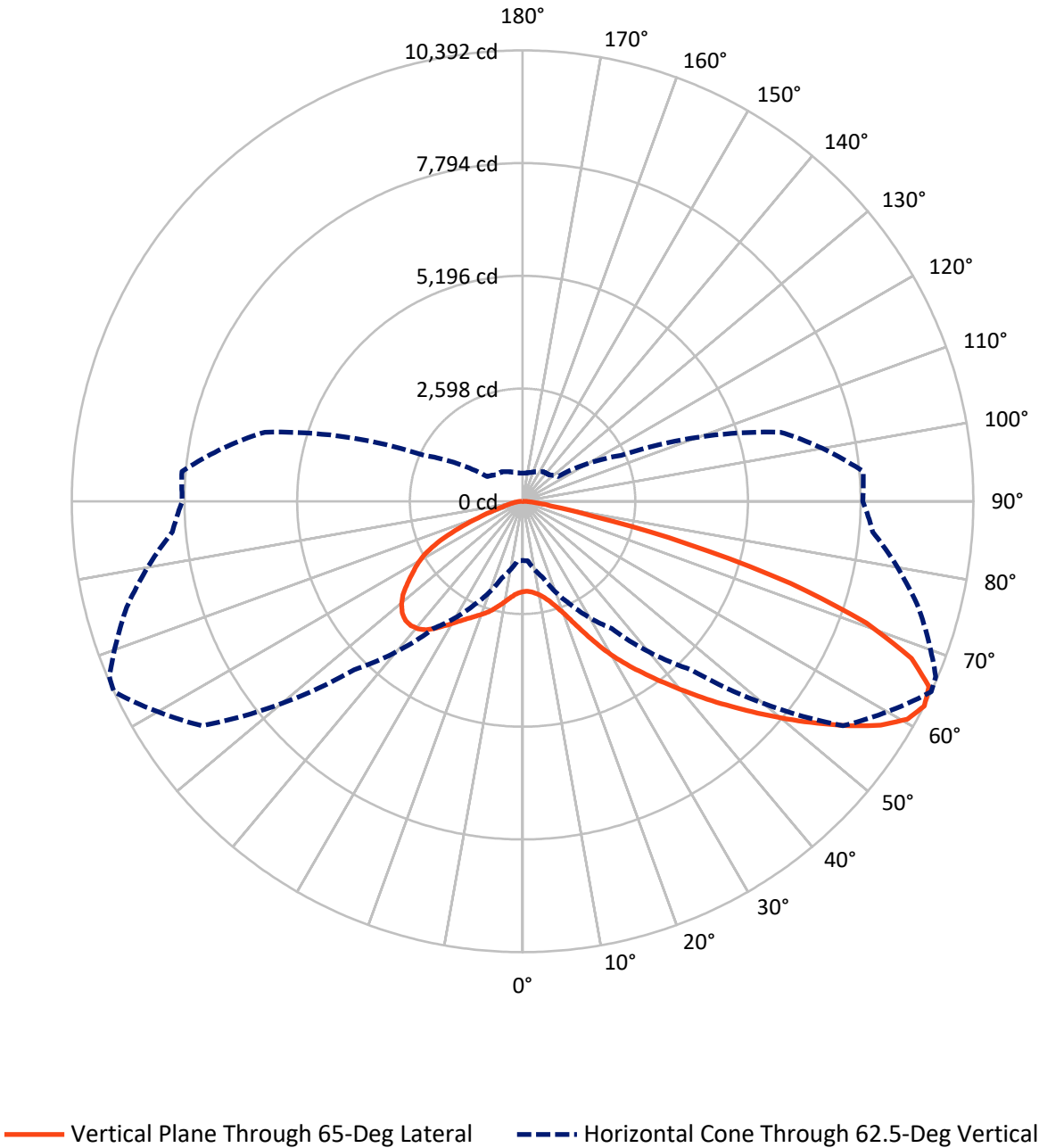
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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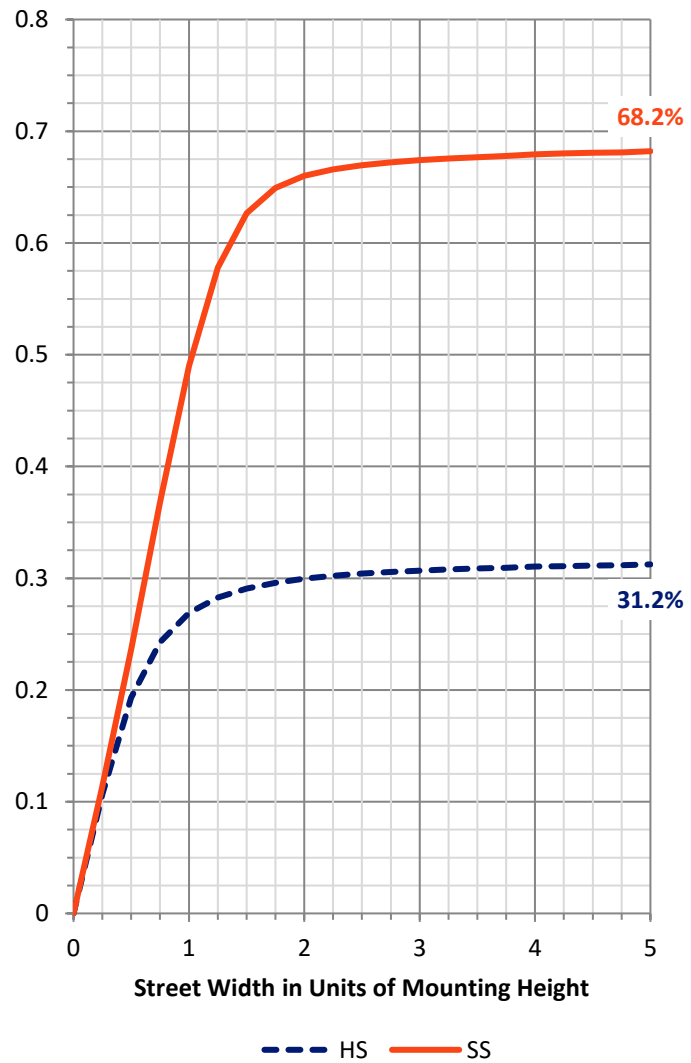
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5961.8	0.0	5961.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	12931.2	0.0	12931.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	18893.0	0.0	18893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.6	1.1
10°-20°	703.9	3.7
20°-30°	1427.2	7.6
30°-40°	2469.7	13.1
40°-50°	3737.4	19.8
50°-60°	4381.9	23.2
60°-70°	3673.7	19.4
70°-80°	2028.2	10.7
80°-90°	263.5	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°	18893.0	100.0
0°-180°	18893.0	100.0

Coefficient of Utilization



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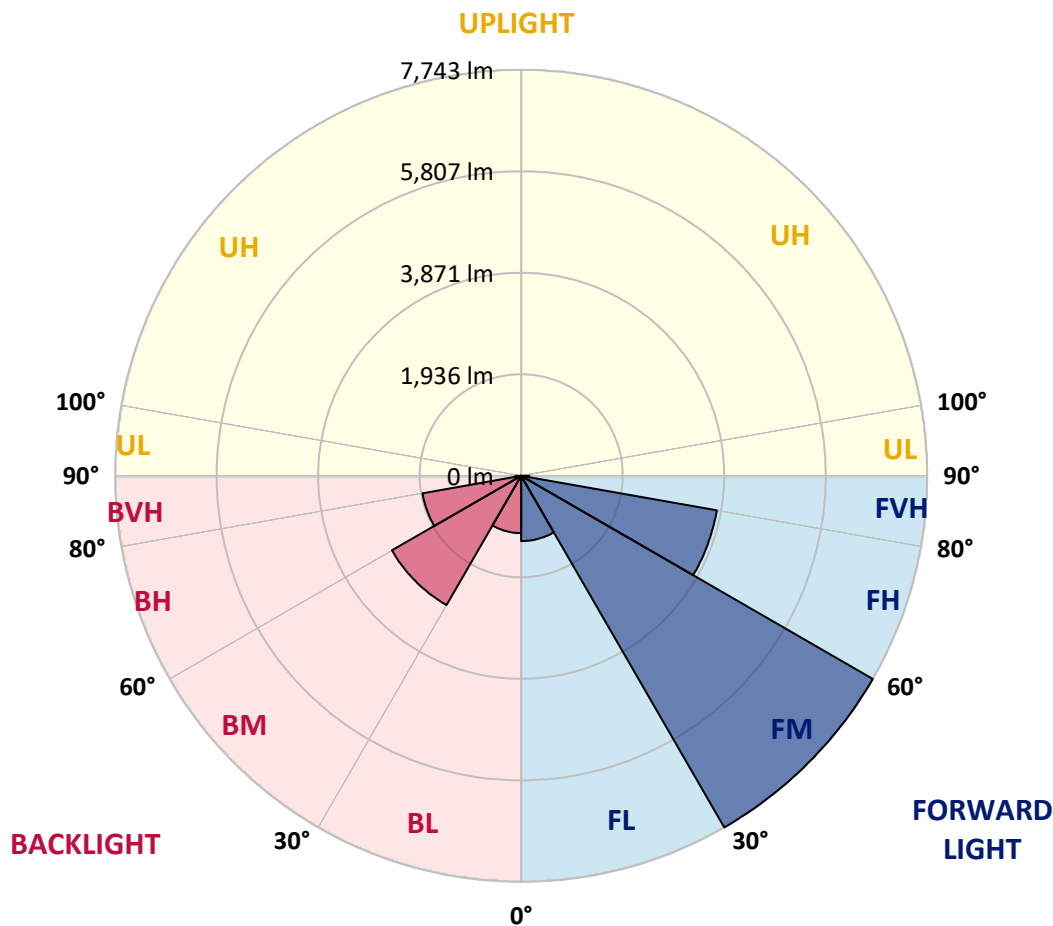
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1245.3	6.6			
FM	(30°-60°)	7743.0	41.0			
FH	(60°-80°)	3789.4	20.1			G2/5000
FVH	(80°-90°)	153.5	0.8			G2/225
BL	(0°-30°)	1093.3	5.8	B3/2500		
BM	(30°-60°)	2846.1	15.1	B3/5000		
BH	(60°-80°)	1912.5	10.1	B3/2500		G3/2500
BVH	(80°-90°)	109.9	0.6			G2/225
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°	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9
2.5°	2068.2	2062.3	2067.2	2067.2	2069.2	2068.2	2075.1	2077.0	2080.0	2085.8	2085.8
5°	2047.6	2046.6	2055.5	2063.3	2071.1	2078.0	2086.8	2099.6	2101.5	2108.4	2117.2
7.5°	2040.8	2034.9	2048.6	2058.4	2077.0	2093.7	2117.2	2138.8	2147.6	2150.5	2167.2
10°	2093.7	2083.9	2096.6	2102.5	2118.2	2134.9	2162.3	2196.6	2206.4	2218.2	2236.8
12.5°	2183.9	2173.1	2191.7	2200.5	2215.2	2229.9	2248.6	2281.9	2286.8	2308.4	2326.0
15°	2307.4	2294.6	2306.4	2317.2	2341.7	2355.4	2374.0	2406.4	2406.4	2423.0	2435.8
17.5°	2475.0	2458.3	2467.1	2471.1	2486.7	2507.3	2538.7	2567.1	2581.8	2575.9	2558.3
20°	2724.9	2704.3	2704.3	2684.7	2678.9	2695.5	2736.7	2775.9	2791.6	2761.2	2718.1
22.5°	3100.3	3070.9	3054.3	2987.6	2961.2	2963.1	3004.3	3052.3	3065.1	3011.1	2914.1
25°	3577.7	3531.6	3509.1	3411.1	3351.3	3299.3	3331.7	3393.4	3411.1	3344.4	3187.6
27.5°	4055.1	4058.0	4036.4	3918.8	3819.8	3724.7	3708.1	3772.8	3791.4	3715.9	3521.8
30°	4724.5	4654.9	4613.8	4472.6	4331.5	4198.2	4129.5	4156.0	4160.9	4070.7	3845.3
32.5°	5301.9	5284.2	5196.0	5072.5	4891.2	4682.4	4567.7	4525.5	4517.7	4389.3	4121.7
35°	5959.6	5949.8	5856.6	5709.6	5513.6	5223.4	5016.6	4896.1	4886.3	4705.9	4395.2
37.5°	6628.1	6628.1	6536.9	6376.1	6173.2	5810.6	5495.9	5304.8	5273.4	5038.2	4673.6
40°	7161.3	7128.9	7145.6	7078.0	6845.7	6460.4	6028.2	5750.8	5708.6	5426.3	4969.6
42.5°	7464.2	7453.4	7553.4	7628.8	7533.8	7226.0	6614.3	6234.0	6175.2	5853.7	5310.7
45°	7531.8	7520.0	7698.4	7974.8	8108.1	7981.7	7251.5	6742.7	6671.2	6300.7	5676.3
47.5°	7375.9	7352.4	7614.1	8050.3	8477.7	8700.2	7941.5	7294.6	7190.7	6735.9	6051.7
50°	6907.4	6884.9	7280.9	7860.2	8602.2	9188.3	8690.4	7879.8	7721.0	7202.4	6431.0
52.5°	5889.0	5899.8	6520.2	7316.1	8438.5	9492.2	9335.3	8496.3	8305.2	7679.8	6786.8
55°	4587.3	4610.8	5373.4	6249.7	7783.7	9446.1	9775.4	9131.5	8941.3	8128.7	7154.4
57.5°	3284.6	3388.5	4103.1	4970.6	6526.1	8715.9	9871.5	9735.3	9551.0	8618.8	7514.1
60°	2129.0	2147.6	2882.7	3757.1	4969.6	7418.1	9676.5	10193.0	10048.9	9118.7	7815.1
62.5°	1364.4	1377.2	1825.1	2627.9	3576.7	5488.1	9019.7	10392.0	10347.9	9449.0	8104.2
65°	1002.7	992.9	1226.2	1736.9	2409.3	3384.6	7744.5	10295.9	10383.2	9655.9	8343.4
67.5°	837.1	823.4	938.0	1202.7	1775.1	1922.2	5730.2	9671.5	9991.1	9632.3	8518.8
70°	762.6	750.8	820.4	893.0	1385.0	1287.0	2888.6	8408.1	8900.1	9364.7	8490.4
72.5°	645.9	625.4	720.4	793.0	1077.2	987.1	1193.9	6458.5	7058.4	8507.1	8090.5
75°	500.9	487.2	568.5	697.9	809.6	770.4	754.7	3921.7	4576.5	6579.0	7078.0
77.5°	397.0	378.4	452.8	544.0	728.3	581.3	549.9	1688.9	2337.8	4200.1	5296.0
80°	299.0	282.3	344.0	430.3	559.7	438.1	355.8	689.1	881.2	2128.0	2663.2
82.5°	212.7	198.0	240.1	315.6	376.4	393.1	218.6	386.2	434.2	820.4	595.0
85°	136.2	127.4	160.8	198.0	239.2	252.9	133.3	201.9	221.5	338.2	248.0
87.5°	74.5	60.8	86.3	92.1	110.8	101.0	63.7	73.5	79.4	122.5	104.9
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°	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9	2081.9
2.5°	2089.8	2092.7	2102.5	2105.5	2112.3	2121.1	2127.0	2132.9	2132.9	2138.8	2138.8
5°	2118.2	2125.1	2145.6	2156.4	2174.1	2191.7	2202.5	2215.2	2223.1	2227.0	2229.0
7.5°	2173.1	2183.9	2213.3	2231.9	2262.3	2286.8	2303.4	2321.1	2325.0	2335.8	2331.9
10°	2247.6	2260.3	2293.6	2328.9	2365.2	2395.6	2411.3	2424.0	2428.9	2430.9	2426.0
12.5°	2332.9	2351.5	2394.6	2437.7	2476.0	2502.4	2506.3	2503.4	2489.7	2477.9	2477.9
15°	2437.7	2454.4	2502.4	2549.5	2586.7	2591.6	2567.1	2551.4	2534.8	2531.8	2531.8
17.5°	2563.2	2572.0	2616.1	2662.2	2665.1	2648.5	2612.2	2597.5	2581.8	2571.0	2572.0
20°	2709.2	2706.3	2737.7	2757.3	2736.7	2685.7	2630.8	2606.3	2590.6	2577.9	2578.9
22.5°	2883.7	2861.2	2857.3	2852.4	2797.5	2690.6	2616.1	2584.8	2560.3	2542.6	2548.5
25°	3137.6	3051.3	2991.5	2958.2	2834.7	2664.2	2569.1	2499.5	2453.4	2423.0	2434.8
27.5°	3455.2	3310.1	3159.2	3077.8	2834.7	2610.2	2455.4	2342.7	2267.2	2235.8	2251.5
30°	3758.1	3606.1	3383.6	3221.9	2827.9	2522.0	2272.1	2115.3	2027.0	1995.7	2014.3
32.5°	4016.8	3851.2	3621.8	3379.7	2811.2	2378.9	2044.7	1871.2	1785.9	1748.7	1767.3
35°	4257.0	4080.5	3861.0	3553.2	2767.1	2169.2	1794.7	1662.4	1567.3	1507.5	1527.1
37.5°	4503.0	4293.2	4087.4	3710.0	2687.7	1924.1	1602.6	1489.9	1378.1	1297.8	1319.3
40°	4770.6	4519.7	4329.5	3803.1	2557.3	1690.8	1453.6	1350.7	1232.1	1146.8	1163.5
42.5°	5083.3	4791.2	4599.1	3851.2	2378.9	1525.2	1356.6	1255.6	1143.9	1074.3	1088.0
45°	5409.7	5090.1	4845.1	3850.2	2179.9	1447.7	1325.2	1225.2	1101.7	1029.2	1041.0
47.5°	5751.8	5402.8	5057.8	3787.5	2007.4	1458.5	1307.6	1159.6	1023.3	952.7	962.5
50°	6094.8	5744.9	5263.6	3669.8	1933.9	1435.0	1241.9	1067.4	906.7	843.0	846.9
52.5°	6435.0	6108.6	5441.0	3502.2	1859.4	1347.8	1157.6	947.8	858.6	814.5	814.5
55°	6777.0	6468.3	5634.1	3258.2	1673.2	1245.8	1016.5	902.8	820.4	780.2	776.3
57.5°	7120.1	6883.9	5817.4	3014.1	1438.9	1120.4	939.0	847.9	782.2	747.9	742.0
60°	7476.9	7359.3	6006.6	2789.6	1207.6	959.6	882.2	803.8	737.1	698.9	695.9
62.5°	7844.5	7882.7	6154.6	2500.5	994.9	861.6	831.2	750.8	686.1	649.9	648.9
65°	8215.0	8387.5	6251.7	2099.6	806.7	768.5	776.3	693.0	627.3	596.0	595.0
67.5°	8494.3	8751.1	6224.2	1588.9	661.6	680.3	707.7	632.2	570.5	546.0	546.9
70°	8525.7	8708.0	5953.7	1088.0	553.8	594.0	631.2	572.4	508.7	491.1	492.1
72.5°	8108.1	8119.9	5199.9	710.6	468.5	521.5	550.9	511.7	449.9	432.3	431.3
75°	7013.3	6715.3	3817.8	468.5	392.1	447.9	475.4	447.9	388.2	392.1	378.4
77.5°	5313.6	4755.9	2318.2	333.3	327.4	376.4	413.6	394.0	343.1	385.2	339.1
80°	2737.7	2573.0	1034.1	249.0	258.8	300.9	340.1	314.6	271.5	258.8	236.2
82.5°	627.3	729.3	407.8	178.4	187.2	216.6	259.8	236.2	195.1	164.7	162.7
85°	219.6	240.1	180.4	111.7	109.8	135.3	176.4	157.8	132.3	105.9	111.7
87.5°	69.6	91.2	67.6	45.1	47.0	60.8	81.4	74.5	61.8	40.2	42.1
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)