

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: P946618

Luminaire Tested: **GALN-SB2B-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-722-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9461 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 73.9
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

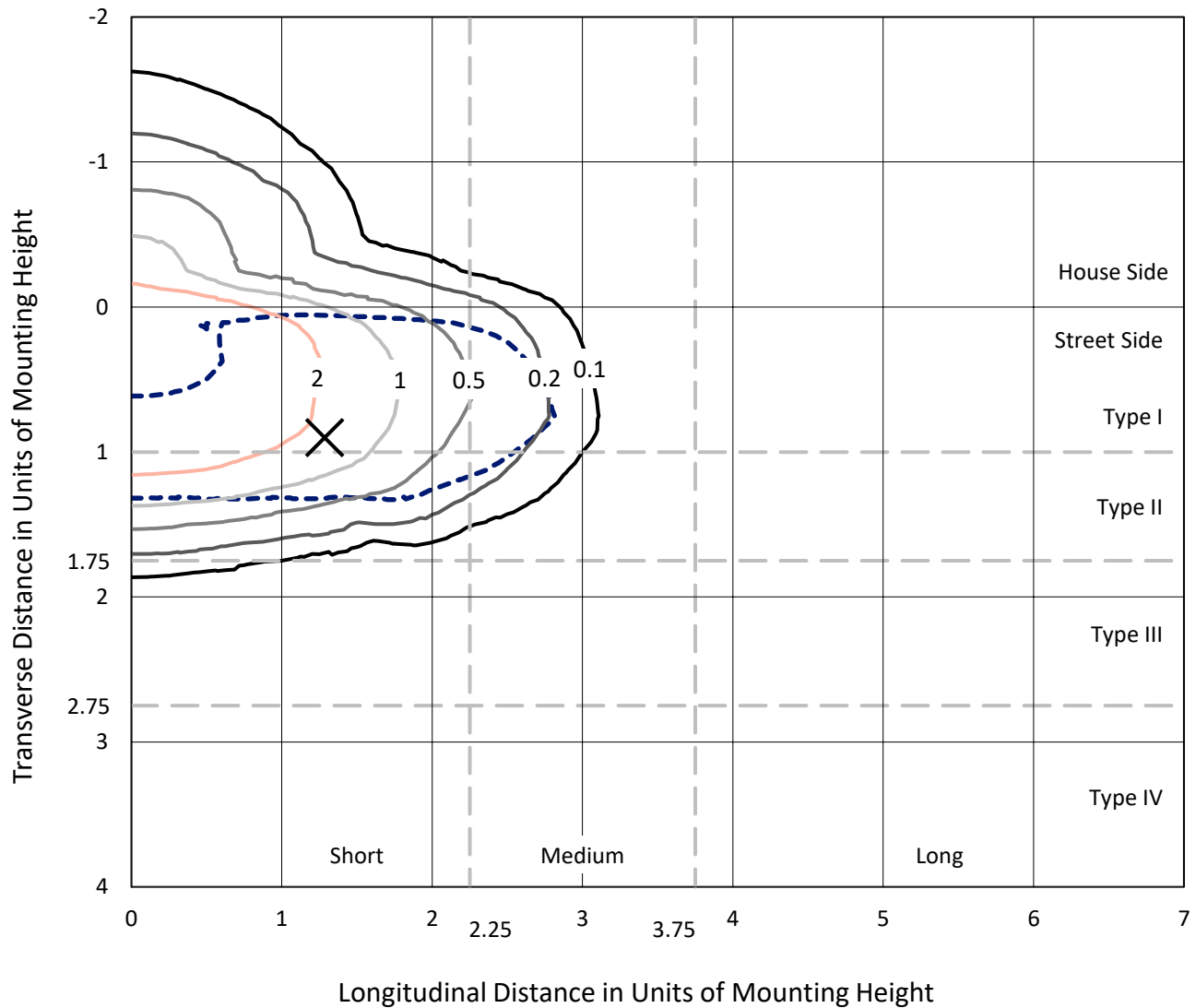


REPORT NUMBER: P946618

CATALOG NUMBER: GALN-SB2B-722-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

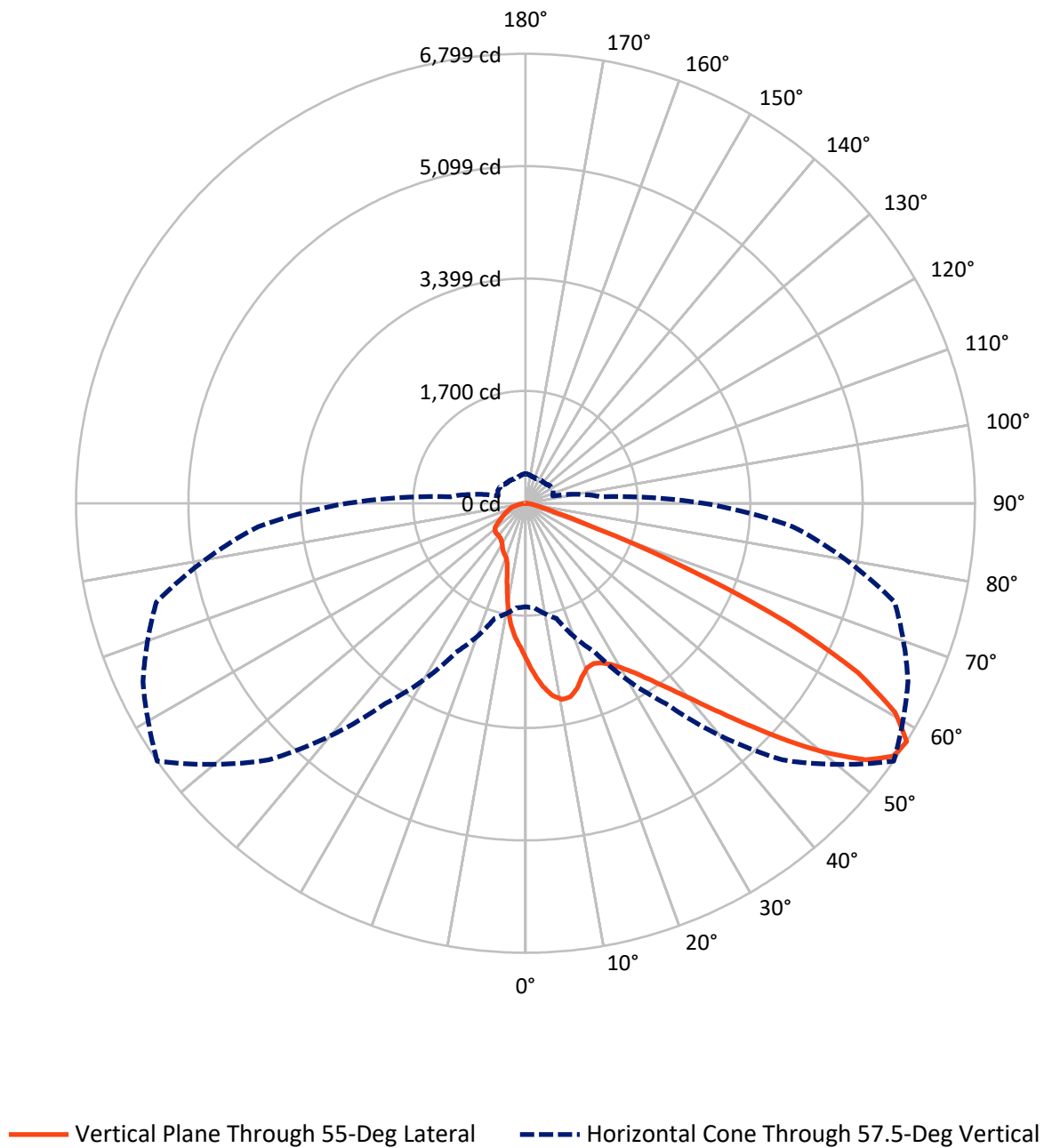


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type II - Short - N/A

REPORT NUMBER: P946618

CATALOG NUMBER: GALN-SB2B-722-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P946618

CATALOG NUMBER: GALN-SB2B-722-U-AFL

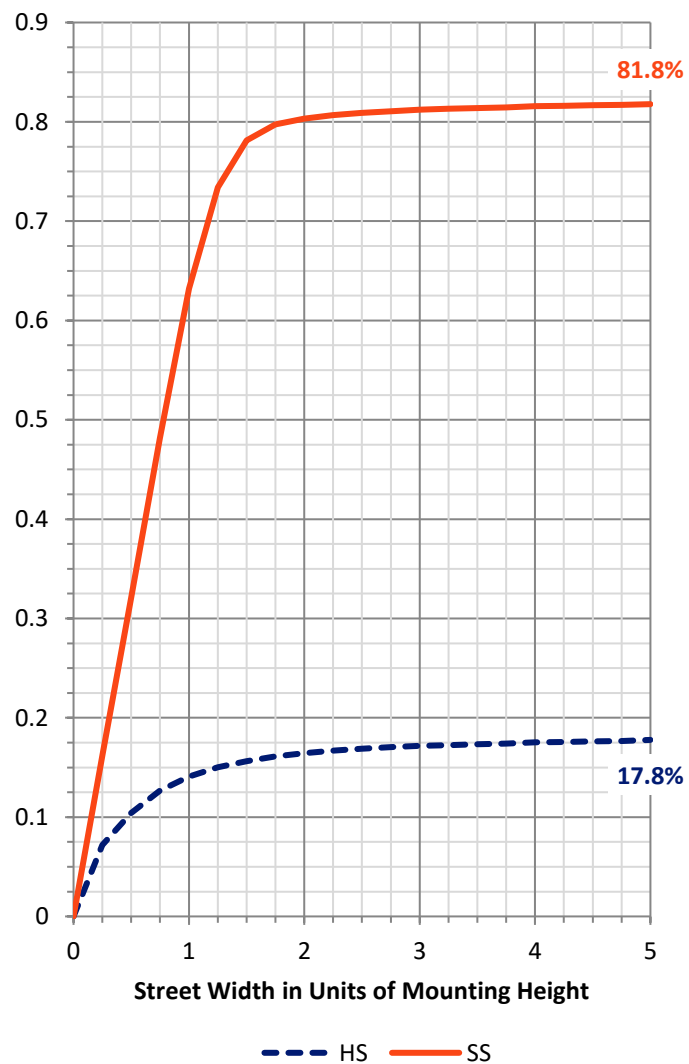
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1711.9	0.0	1711.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	7749.1	0.0	7749.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	9461.0	0.0	9461.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.0	2.3
10°-20°	555.2	5.9
20°-30°	886.0	9.4
30°-40°	1402.8	14.8
40°-50°	2147.1	22.7
50°-60°	2299.7	24.3
60°-70°	1446.8	15.3
70°-80°	427.8	4.5
80°-90°	75.6	0.8
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°	9461.0	100.0
0°-180°	9461.0	100.0

Coefficient of Utilization



REPORT NUMBER: P946618

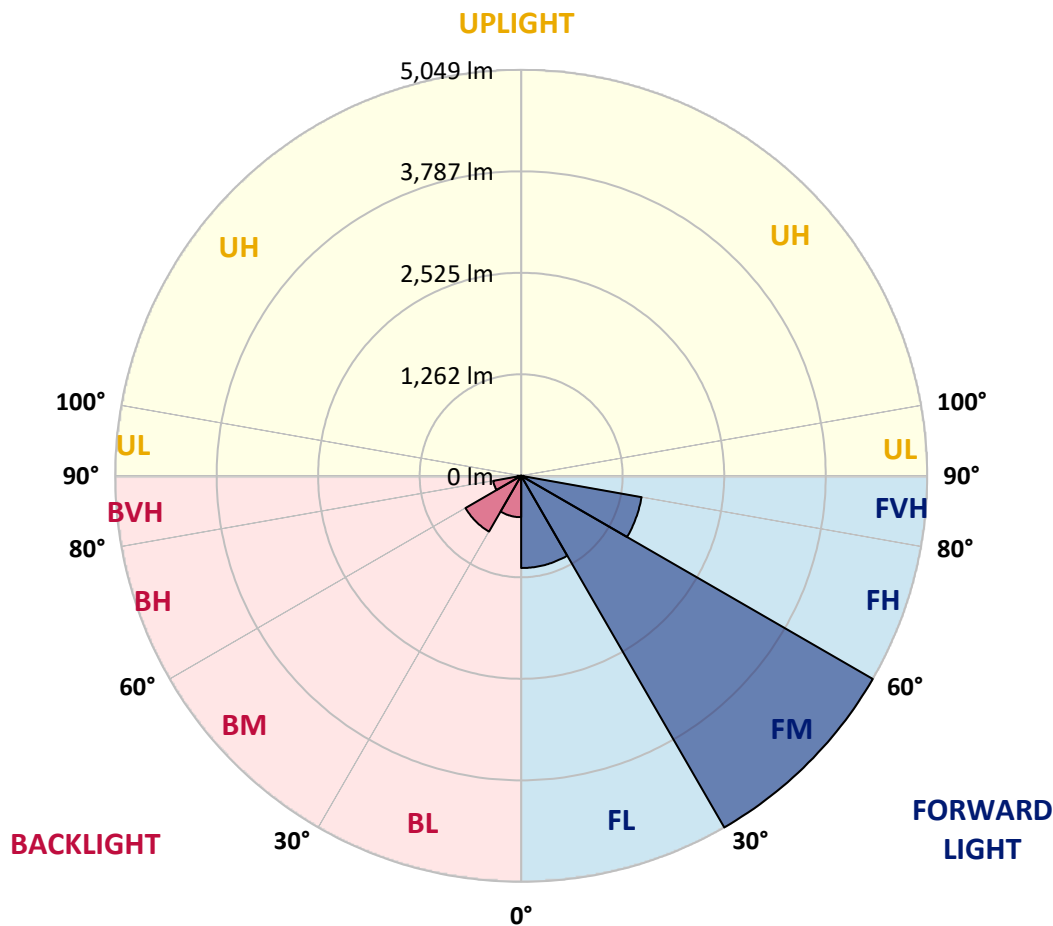
CATALOG NUMBER: GALN-SB2B-722-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1146.7	12.1			
FM	(30°-60°)	5049.4	53.4			
FH	(60°-80°)	1521.0	16.1			G1/1800
FVH	(80°-90°)	32.0	0.3			G1/100
BL	(0°-30°)	514.5	5.4	B2/1000		
BM	(30°-60°)	800.1	8.5	B1/1000		
BH	(60°-80°)	353.6	3.7	B1/500		G1/500
BVH	(80°-90°)	43.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



REPORT NUMBER: P946618

CATALOG NUMBER: GALN-SB2B-722-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2370.6	2370.6	2370.6	2370.6	2370.6	2370.6	2370.6	2370.6	2370.6	2370.6	2370.6
2.5°	2719.8	2717.9	2728.6	2692.0	2667.0	2633.3	2588.8	2532.0	2470.9	2406.3	2378.4
5°	2964.9	2947.7	2959.0	2931.6	2904.2	2853.4	2787.3	2694.9	2581.9	2453.3	2384.8
7.5°	2926.2	2914.5	2943.3	2967.8	2988.3	2982.0	2933.6	2836.7	2691.0	2504.1	2404.9
10°	2614.7	2601.5	2642.1	2726.7	2850.9	2959.0	3017.7	2957.5	2802.5	2559.9	2424.4
12.5°	2339.8	2333.4	2360.3	2428.8	2566.7	2774.1	3006.9	3063.2	2918.4	2625.9	2450.8
15°	2222.4	2214.6	2231.7	2266.4	2354.5	2547.7	2909.1	3135.6	3032.4	2702.2	2492.9
17.5°	2196.5	2187.7	2195.0	2213.1	2269.9	2417.1	2761.4	3171.3	3151.2	2787.3	2528.1
20°	2244.4	2237.1	2238.1	2237.1	2276.7	2393.6	2658.7	3157.6	3254.9	2865.6	2562.3
22.5°	2360.3	2348.1	2348.6	2322.7	2344.2	2434.7	2631.8	3120.9	3347.3	2934.1	2588.3
25°	2549.1	2527.1	2531.5	2465.5	2459.6	2526.6	2673.9	3092.5	3439.3	2988.8	2593.2
27.5°	2807.4	2782.4	2769.2	2670.9	2624.0	2657.2	2759.4	3102.3	3526.3	3036.3	2580.9
30°	3130.2	3099.9	3073.0	2933.6	2848.5	2836.2	2892.5	3166.9	3629.0	3086.2	2559.9
32.5°	3525.9	3490.6	3441.7	3256.9	3137.0	3073.0	3064.6	3281.8	3749.4	3149.7	2549.1
35°	3996.8	3950.9	3881.4	3642.3	3490.6	3359.6	3291.6	3447.6	3914.2	3245.6	2561.4
37.5°	4482.0	4430.2	4366.6	4081.9	3895.6	3702.4	3568.4	3672.6	4133.8	3375.7	2593.6
40°	4929.5	4871.3	4812.2	4558.8	4358.8	4126.0	3907.3	3957.2	4402.3	3531.2	2648.4
42.5°	5193.6	5150.6	5128.1	4991.2	4836.6	4600.4	4328.9	4294.7	4704.1	3710.2	2711.0
45°	5181.9	5164.3	5233.8	5290.5	5253.8	5122.7	4822.9	4667.9	5006.8	3865.3	2768.7
47.5°	4905.1	4916.8	5071.9	5390.8	5531.1	5599.6	5385.4	5034.2	5269.9	3981.2	2794.7
50°	4151.9	4161.7	4520.7	5208.3	5602.5	5988.4	5943.4	5391.7	5473.9	4052.1	2788.8
52.5°	3555.7	3562.0	3716.1	4667.4	5366.8	6184.1	6446.2	5728.7	5623.1	4071.7	2756.0
55°	2678.3	2700.3	2872.9	3661.8	4753.5	6029.0	6752.4	6076.0	5717.5	4073.6	2721.8
57.5°	1564.6	1588.6	1801.8	2485.6	3694.6	5488.6	6798.8	6384.1	5781.5	4058.0	2701.2
60°	766.4	776.7	869.6	1306.4	2278.2	4447.3	6425.2	6533.3	5817.2	4049.7	2700.3
62.5°	516.5	515.0	518.9	644.6	1122.5	2857.3	5646.5	6272.1	5798.2	4017.9	2690.5
65°	444.1	438.7	424.0	452.4	581.5	1306.8	4362.7	5492.5	5652.9	3938.2	2623.5
67.5°	383.9	384.4	384.9	376.1	415.2	603.0	2666.0	4326.5	5131.5	3560.6	2365.2
70°	317.9	322.3	324.3	324.3	338.5	395.7	1138.1	2965.4	4047.7	2791.7	1905.0
72.5°	289.5	280.2	281.2	276.3	276.3	301.3	458.3	1681.0	2550.1	1570.5	1162.6
75°	236.2	242.1	243.1	239.7	228.4	229.9	271.9	705.3	1091.2	651.5	574.7
77.5°	204.0	204.0	205.9	203.5	194.7	172.2	181.5	273.4	371.2	267.0	287.1
80°	163.8	163.4	171.7	176.6	162.9	127.2	115.9	151.1	164.8	117.4	149.2
82.5°	79.7	84.6	117.9	134.5	123.7	91.9	70.9	93.9	88.0	51.8	67.0
85°	46.5	44.0	52.8	74.8	70.9	50.9	34.2	48.9	46.0	26.4	26.9
87.5°	14.7	13.7	10.8	25.4	20.5	14.2	9.3	14.2	12.7	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946618

CATALOG NUMBER: GALN-SB2B-722-U-AFL

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2370.6	2370.6	2370.6	2370.6	2370.6	2370.6	2370.6	2370.6	2370.6	2370.6
2.5°	2343.7	2286.0	2228.8	2176.5	2144.7	2124.1	2103.6	2080.6	2071.8	2058.6
5°	2320.2	2208.7	2109.4	2023.9	1946.1	1885.0	1823.3	1773.4	1750.9	1766.1
7.5°	2306.5	2145.1	1992.1	1835.1	1683.9	1563.1	1458.0	1384.1	1350.9	1359.2
10°	2294.3	2073.3	1840.0	1592.0	1374.8	1225.2	1117.6	1061.3	1040.3	1044.7
12.5°	2283.1	1992.6	1656.5	1330.3	1099.5	1000.7	969.9	970.4	974.3	977.2
15°	2281.1	1895.2	1451.6	1101.4	950.8	944.4	977.7	998.7	1010.0	1013.4
17.5°	2278.2	1778.8	1242.8	945.4	914.6	957.6	988.5	1002.1	1010.9	1011.4
20°	2266.4	1631.1	1050.1	871.1	906.8	943.9	963.0	973.8	981.1	983.6
22.5°	2230.3	1466.8	899.9	837.8	875.5	905.3	927.8	940.0	944.4	947.4
25°	2165.2	1282.9	796.2	806.0	831.9	869.6	887.7	890.1	888.7	893.1
27.5°	2080.1	1085.8	731.7	763.0	796.2	828.5	838.3	836.8	833.9	838.8
30°	1977.4	908.7	690.6	714.6	760.0	789.4	798.2	794.8	788.9	794.3
32.5°	1868.8	764.0	656.8	680.8	730.2	759.1	767.9	764.4	760.0	764.4
35°	1767.6	662.7	625.5	658.3	706.7	735.1	746.4	746.8	746.8	752.2
37.5°	1674.6	603.5	599.6	644.1	690.6	716.0	732.2	733.1	712.1	713.6
40°	1588.6	578.6	587.9	634.8	674.9	699.4	700.4	645.6	607.0	606.0
42.5°	1518.1	573.7	591.3	633.9	663.7	664.7	595.7	553.2	542.4	542.9
45°	1452.1	572.2	599.1	633.9	647.1	574.2	527.7	516.5	517.5	521.4
47.5°	1378.3	566.4	600.6	625.1	599.1	510.6	496.9	492.0	490.1	491.0
50°	1297.6	545.3	582.0	607.4	517.0	483.2	466.1	464.6	467.1	468.5
52.5°	1212.5	511.1	550.2	575.7	479.3	459.3	440.2	443.6	454.4	457.8
55°	1156.7	471.0	508.2	512.1	452.9	436.8	420.6	428.4	448.5	454.9
57.5°	1142.0	428.4	460.2	455.8	419.2	417.2	407.4	414.3	439.7	449.0
60°	1137.6	390.3	413.3	409.9	386.4	395.7	393.2	396.7	405.5	408.4
62.5°	1103.4	360.0	371.2	366.3	357.0	373.2	379.0	371.7	378.6	382.0
65°	1016.3	335.5	330.1	326.7	330.6	345.3	357.0	342.4	348.7	358.5
67.5°	872.5	302.3	287.6	291.5	303.7	311.6	326.7	310.1	315.5	332.1
70°	705.8	260.2	247.0	258.2	270.0	286.1	288.6	277.3	290.0	308.6
72.5°	499.4	217.6	208.4	231.3	235.3	256.3	250.9	245.5	263.1	269.5
75°	346.3	175.6	170.2	187.8	202.0	220.1	216.2	222.5	259.7	262.6
77.5°	219.1	136.5	133.0	144.3	163.8	183.9	190.3	262.6	443.6	461.2
80°	127.2	101.7	97.8	106.6	123.7	142.3	183.4	322.3	292.5	289.1
82.5°	70.9	69.9	65.0	67.5	82.7	102.7	259.2	226.9	184.4	190.3
85°	33.3	41.1	35.2	33.7	46.5	120.3	173.1	129.6	86.1	84.1
87.5°	8.8	7.8	7.8	8.8	19.6	103.7	69.0	55.3	32.8	31.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)