

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: P945904

Luminaire Tested: **GALN-SB1D-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945904
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-SB1D-722-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8552 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 79.6
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

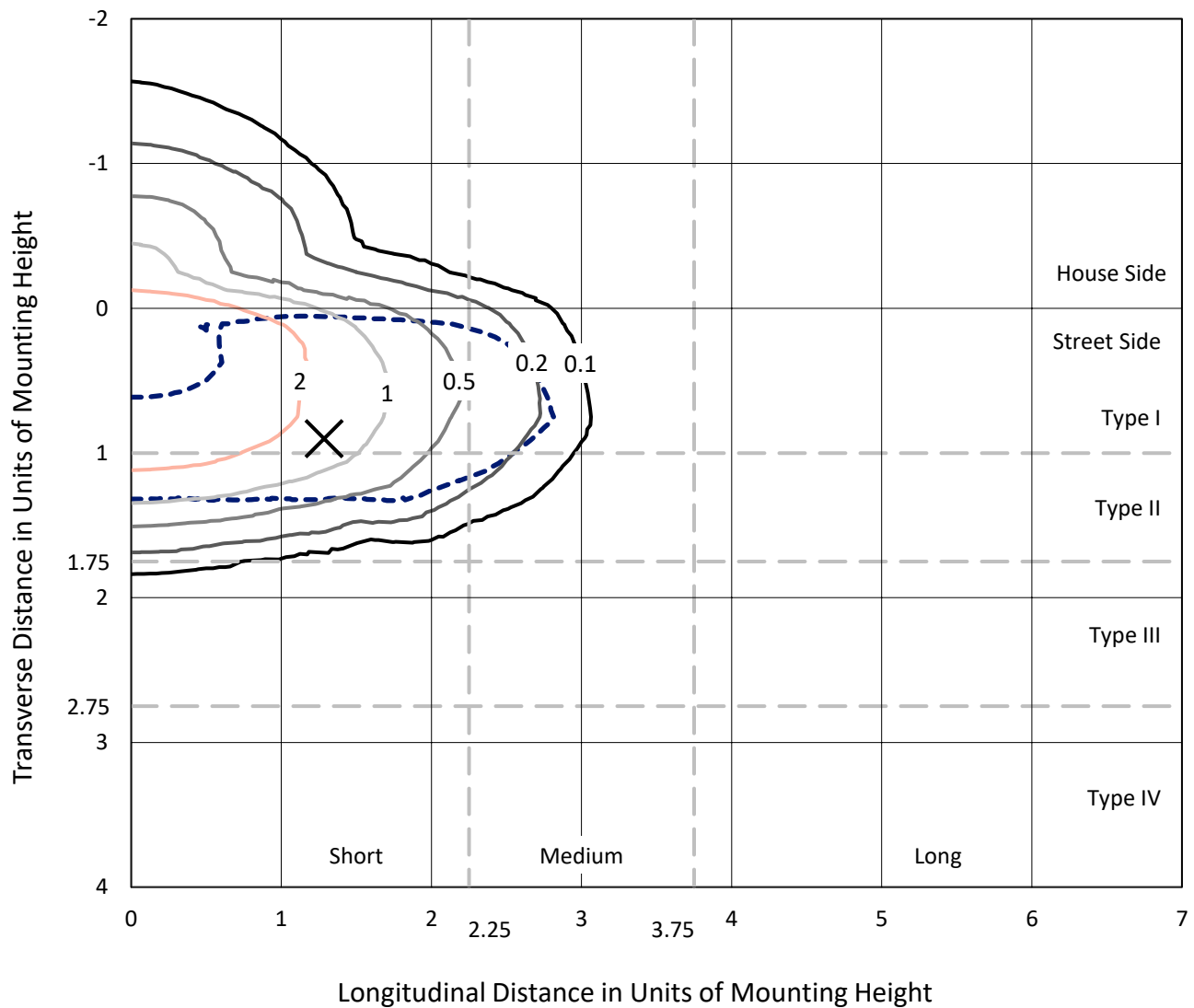


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

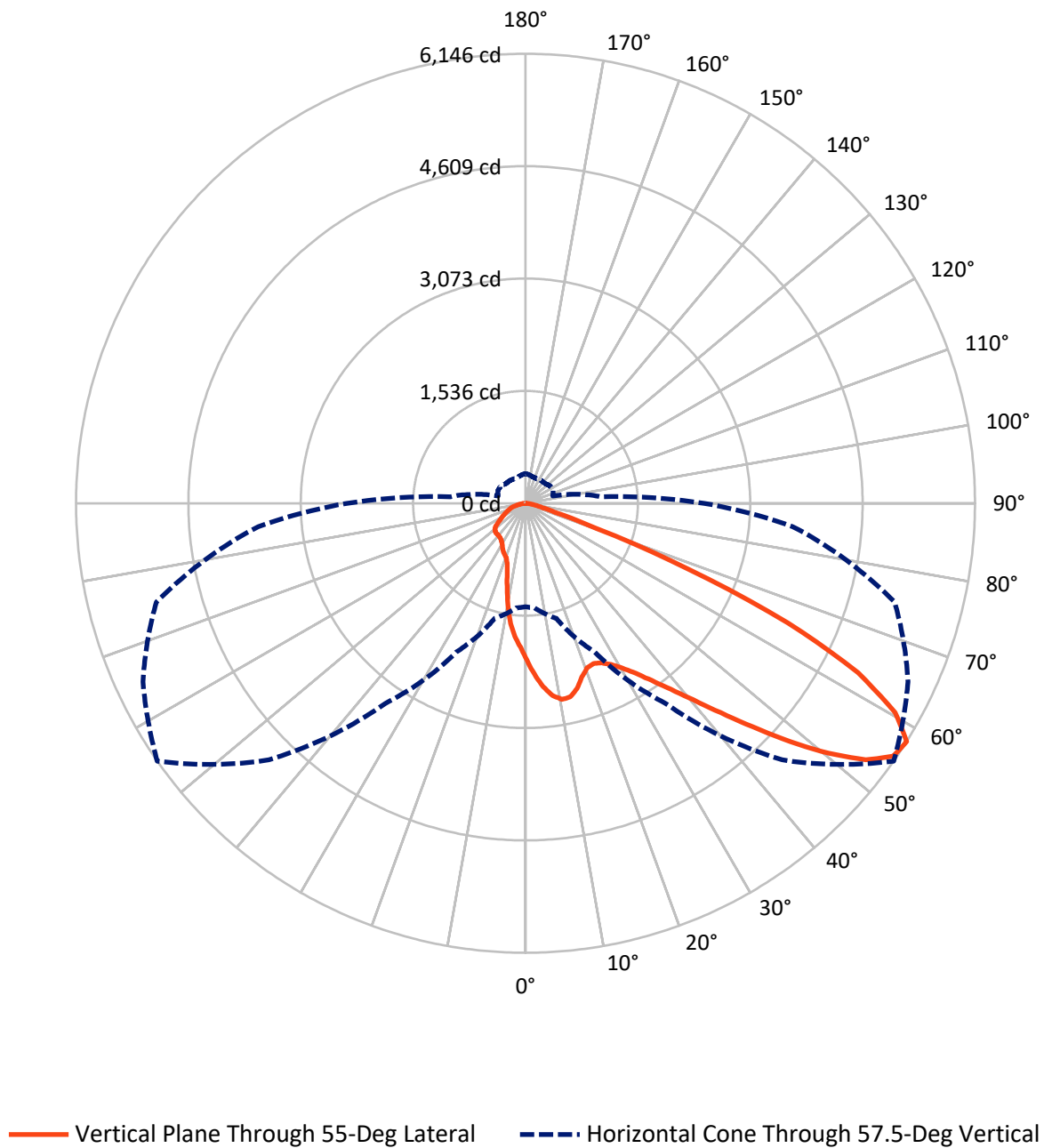


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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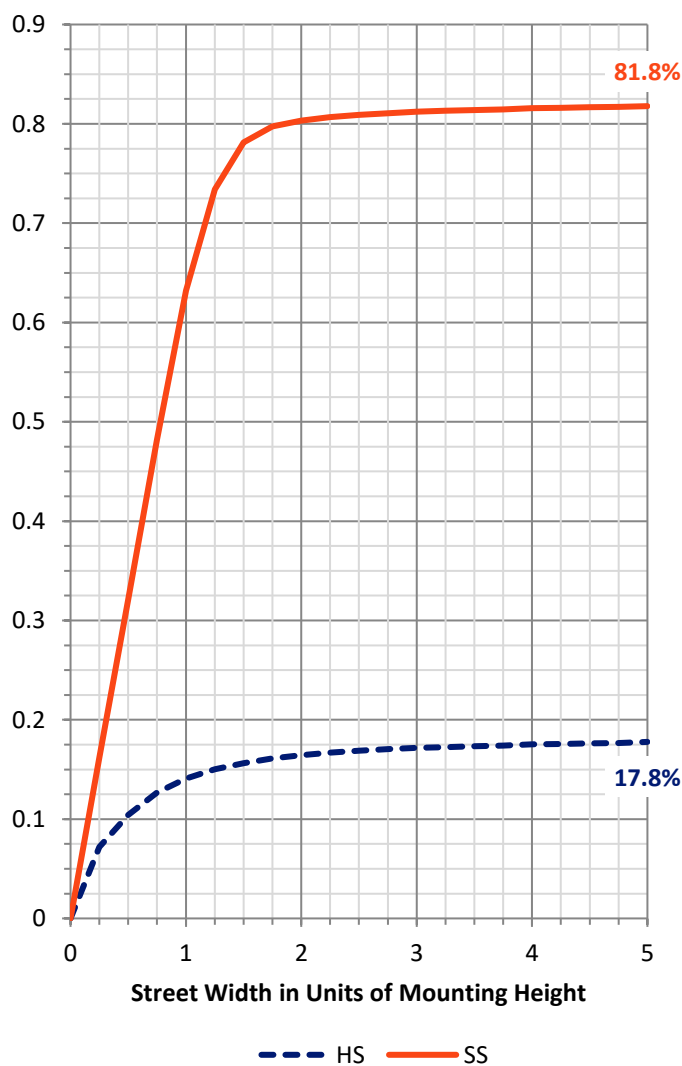
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1547.4	0.0	1547.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	7004.6	0.0	7004.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	8552.0	0.0	8552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.8	2.3
10°-20°	501.9	5.9
20°-30°	800.9	9.4
30°-40°	1268.0	14.8
40°-50°	1940.8	22.7
50°-60°	2078.8	24.3
60°-70°	1307.8	15.3
70°-80°	386.7	4.5
80°-90°	68.4	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°	8552.0	100.0
0°-180°	8552.0	100.0

Coefficient of Utilization



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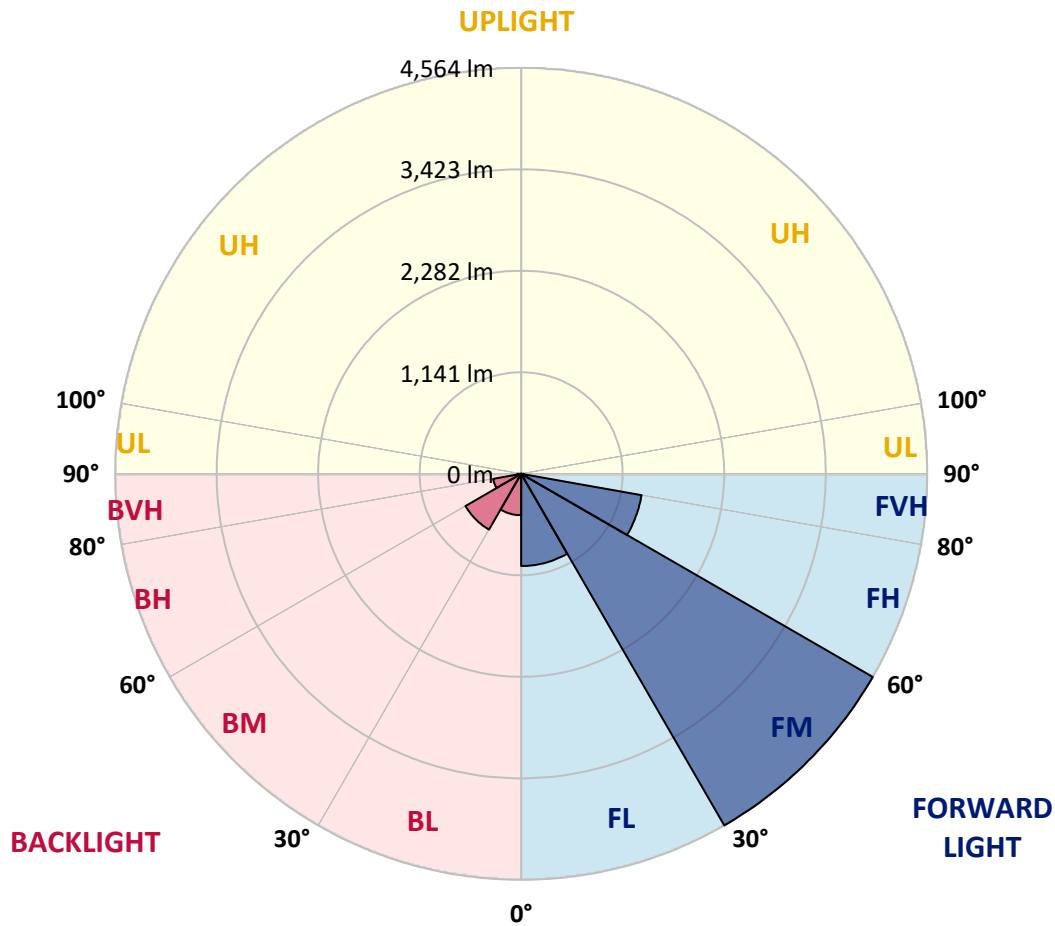
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1036.5	12.1			
FM	(30°-60°)	4564.3	53.4			
FH	(60°-80°)	1374.9	16.1			G1/1800
FVH	(80°-90°)	28.9	0.3			G1/100
BL	(0°-30°)	465.1	5.4	B1/500		
BM	(30°-60°)	723.3	8.5	B1/1000		
BH	(60°-80°)	319.6	3.7	B1/500		G1/500
BVH	(80°-90°)	39.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9
2.5°	2458.5	2456.7	2466.5	2433.3	2410.8	2380.3	2340.0	2288.7	2233.5	2175.1	2149.9
5°	2680.0	2664.5	2674.7	2649.9	2625.2	2579.2	2519.5	2436.0	2333.8	2217.6	2155.7
7.5°	2645.1	2634.5	2660.6	2682.7	2701.2	2695.5	2651.7	2564.2	2432.4	2263.5	2173.8
10°	2363.5	2351.5	2388.2	2464.7	2577.0	2674.7	2727.8	2673.4	2533.2	2313.9	2191.5
12.5°	2115.0	2109.3	2133.6	2195.5	2320.1	2507.6	2718.0	2768.9	2638.0	2373.6	2215.4
15°	2008.9	2001.8	2017.3	2048.7	2128.3	2302.9	2629.6	2834.3	2741.0	2442.6	2253.4
17.5°	1985.5	1977.5	1984.1	2000.5	2051.8	2184.9	2496.1	2866.6	2848.4	2519.5	2285.2
20°	2028.8	2022.2	2023.0	2022.2	2058.0	2163.6	2403.2	2854.2	2942.2	2590.3	2316.2
22.5°	2133.6	2122.5	2123.0	2099.5	2119.0	2200.8	2378.9	2821.0	3025.7	2652.2	2339.6
25°	2304.2	2284.3	2288.3	2228.6	2223.3	2283.9	2417.0	2795.4	3108.8	2701.7	2344.0
27.5°	2537.6	2515.1	2503.2	2414.3	2371.9	2401.9	2494.3	2804.2	3187.5	2744.6	2333.0
30°	2829.4	2802.0	2777.7	2651.7	2574.8	2563.7	2614.6	2862.6	3280.4	2789.6	2313.9
32.5°	3187.1	3155.3	3111.1	2943.9	2835.6	2777.7	2770.2	2966.5	3389.1	2847.1	2304.2
35°	3612.8	3571.3	3508.5	3292.3	3155.3	3036.8	2975.3	3116.4	3538.1	2933.8	2315.3
37.5°	4051.4	4004.5	3947.1	3689.8	3521.3	3346.7	3225.6	3319.7	3736.6	3051.4	2344.5
40°	4455.9	4403.3	4349.8	4120.8	3940.0	3729.5	3531.9	3577.0	3979.3	3192.0	2394.0
42.5°	4694.6	4655.7	4635.4	4511.6	4371.9	4158.4	3913.0	3882.1	4252.1	3353.8	2450.6
45°	4684.0	4668.1	4730.9	4782.2	4749.0	4630.5	4359.5	4219.4	4525.8	3493.9	2502.7
47.5°	4433.8	4444.4	4584.6	4872.8	4999.7	5061.6	4868.0	4550.5	4763.6	3598.7	2526.2
50°	3753.0	3761.8	4086.3	4707.9	5064.2	5413.1	5372.4	4873.7	4948.0	3662.8	2520.8
52.5°	3214.1	3219.8	3359.1	4219.0	4851.2	5589.9	5826.9	5178.3	5082.8	3680.5	2491.2
55°	2420.9	2440.8	2596.9	3310.0	4296.8	5449.8	6103.6	5492.2	5168.1	3682.2	2460.3
57.5°	1414.3	1435.9	1628.7	2246.7	3339.6	4961.2	6145.6	5770.7	5226.1	3668.1	2441.7
60°	692.8	702.1	786.1	1180.8	2059.3	4020.0	5807.9	5905.6	5258.3	3660.6	2440.8
62.5°	466.9	465.5	469.1	582.7	1014.6	2582.7	5104.0	5669.5	5241.1	3631.8	2432.0
65°	401.4	396.6	383.3	408.9	525.7	1181.3	3943.5	4964.8	5109.8	3559.8	2371.4
67.5°	347.0	347.5	347.9	340.0	375.3	545.1	2409.9	3910.8	4638.5	3218.5	2138.0
70°	287.4	291.3	293.1	293.1	305.9	357.7	1028.8	2680.4	3658.8	2523.5	1722.0
72.5°	261.7	253.3	254.2	249.8	249.8	272.3	414.2	1519.5	2305.1	1419.6	1050.9
75°	213.5	218.8	219.7	216.6	206.5	207.8	245.8	637.5	986.3	588.9	519.5
77.5°	184.4	184.4	186.1	183.9	176.0	155.6	164.0	247.1	335.6	241.4	259.5
80°	148.1	147.7	155.2	159.6	147.2	114.9	104.8	136.6	149.0	106.1	134.8
82.5°	72.1	76.5	106.5	121.6	111.9	83.1	64.1	84.9	79.6	46.9	60.6
85°	42.0	39.8	47.7	67.6	64.1	46.0	30.9	44.2	41.6	23.9	24.3
87.5°	13.3	12.4	9.7	23.0	18.6	12.8	8.4	12.8	11.5	5.3	5.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9
2.5°	2118.5	2066.4	2014.6	1967.3	1938.6	1920.0	1901.5	1880.7	1872.7	1860.8
5°	2097.3	1996.5	1906.8	1829.4	1759.1	1703.8	1648.1	1603.1	1582.7	1596.4
7.5°	2084.9	1939.0	1800.7	1658.8	1522.1	1412.9	1317.9	1251.1	1221.1	1228.6
10°	2073.9	1874.1	1663.2	1439.0	1242.7	1107.5	1010.2	959.4	940.3	944.3
12.5°	2063.7	1801.1	1497.4	1202.5	993.8	904.5	876.7	877.1	880.7	883.3
15°	2061.9	1713.1	1312.1	995.6	859.4	853.7	883.8	902.8	912.9	916.0
17.5°	2059.3	1607.9	1123.4	854.6	826.7	865.6	893.5	905.9	913.8	914.3
20°	2048.7	1474.4	949.2	787.4	819.7	853.3	870.5	880.2	886.9	889.1
22.5°	2016.0	1325.9	813.5	757.3	791.4	818.3	838.7	849.7	853.7	856.3
25°	1957.2	1159.6	719.7	728.6	752.0	786.1	802.4	804.6	803.3	807.3
27.5°	1880.2	981.5	661.4	689.7	719.7	748.9	757.8	756.4	753.8	758.2
30°	1787.4	821.4	624.2	645.9	687.0	713.5	721.5	718.4	713.1	718.0
32.5°	1689.3	690.6	593.7	615.4	660.1	686.1	694.1	691.0	687.0	691.0
35°	1597.7	599.0	565.4	595.1	638.8	664.5	674.6	675.1	675.1	679.9
37.5°	1513.7	545.6	542.0	582.2	624.2	647.2	661.8	662.7	643.7	645.0
40°	1435.9	523.0	531.4	573.8	610.1	632.2	633.1	583.6	548.6	547.8
42.5°	1372.3	518.6	534.5	573.0	599.9	600.8	538.5	500.0	490.3	490.7
45°	1312.6	517.3	541.6	573.0	584.9	519.0	477.0	466.9	467.7	471.3
47.5°	1245.8	512.0	542.9	565.0	541.6	461.6	449.2	444.8	443.0	443.9
50°	1172.9	492.9	526.1	549.1	467.3	436.8	421.3	420.0	422.2	423.5
52.5°	1096.0	462.0	497.4	520.4	433.3	415.1	397.9	401.0	410.7	413.8
55°	1045.6	425.7	459.3	462.9	409.4	394.8	380.2	387.3	405.4	411.2
57.5°	1032.3	387.3	416.0	412.0	378.9	377.1	368.3	374.5	397.4	405.8
60°	1028.3	352.8	373.6	370.5	349.3	357.7	355.4	358.5	366.5	369.2
62.5°	997.4	325.4	335.6	331.1	322.7	337.3	342.6	336.0	342.2	345.3
65°	918.7	303.3	298.4	295.3	298.9	312.1	322.7	309.5	315.2	324.1
67.5°	788.7	273.2	260.0	263.5	274.5	281.6	295.3	280.3	285.2	300.2
70°	637.9	235.2	223.3	233.4	244.0	258.6	260.8	250.7	262.2	279.0
72.5°	451.4	196.7	188.3	209.1	212.6	231.7	226.8	221.9	237.8	243.6
75°	313.0	158.7	153.9	169.8	182.6	198.9	195.4	201.2	234.8	237.4
77.5°	198.1	123.3	120.3	130.4	148.1	166.2	172.0	237.4	401.0	416.9
80°	114.9	92.0	88.4	96.4	111.9	128.7	165.8	291.3	264.4	261.3
82.5°	64.1	63.2	58.8	61.0	74.7	92.8	234.3	205.1	166.7	172.0
85°	30.1	37.1	31.8	30.5	42.0	108.8	156.5	117.2	77.8	76.0
87.5°	8.0	7.1	7.1	8.0	17.7	93.7	62.3	50.0	29.6	28.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)