

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: P945589

Luminaire Tested: **GALN-SB1C-730-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945589
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-SB1C-730-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7619 lumens
Efficiency: N/A
Efficacy: 140.1 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): 54.4
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

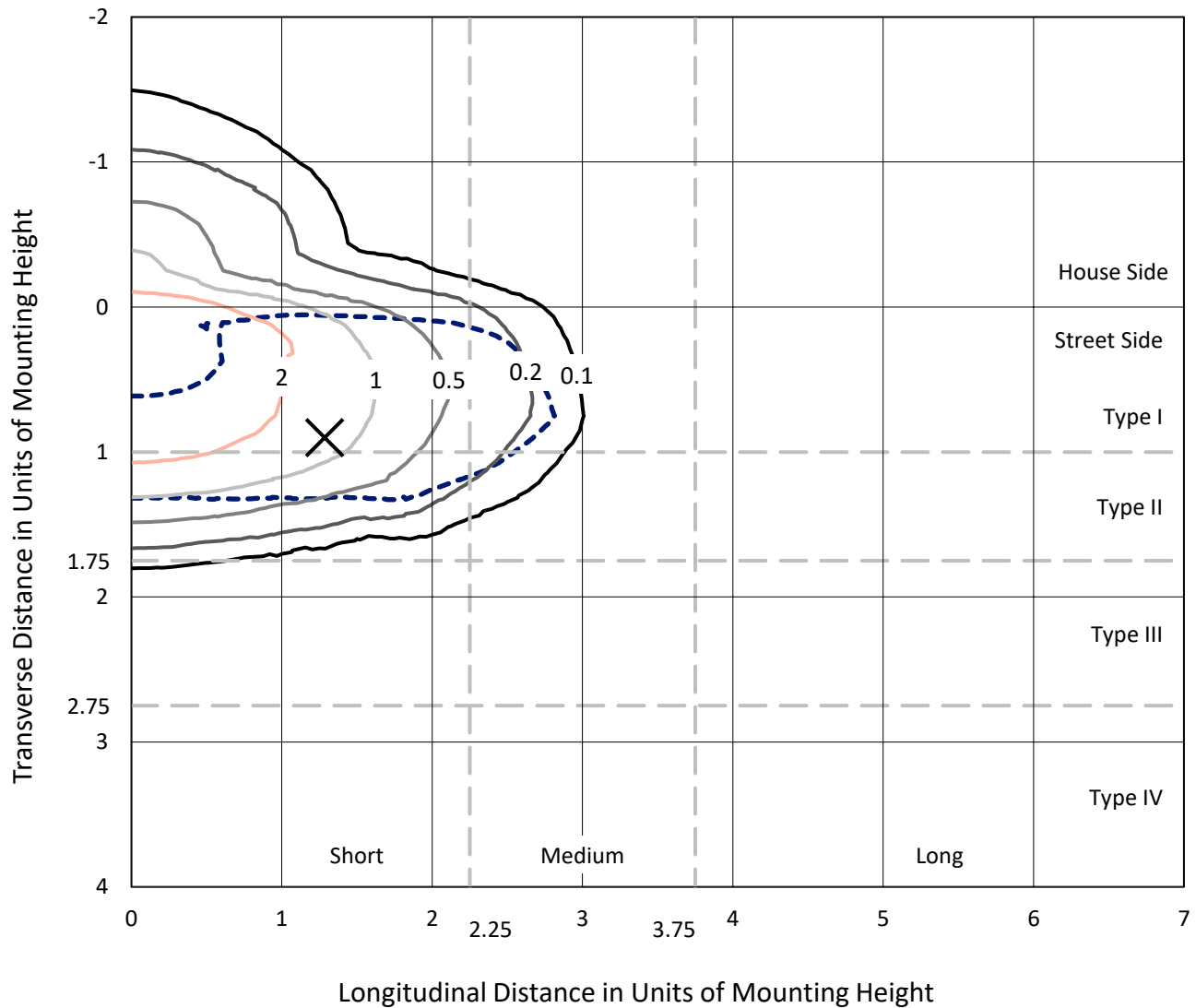


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

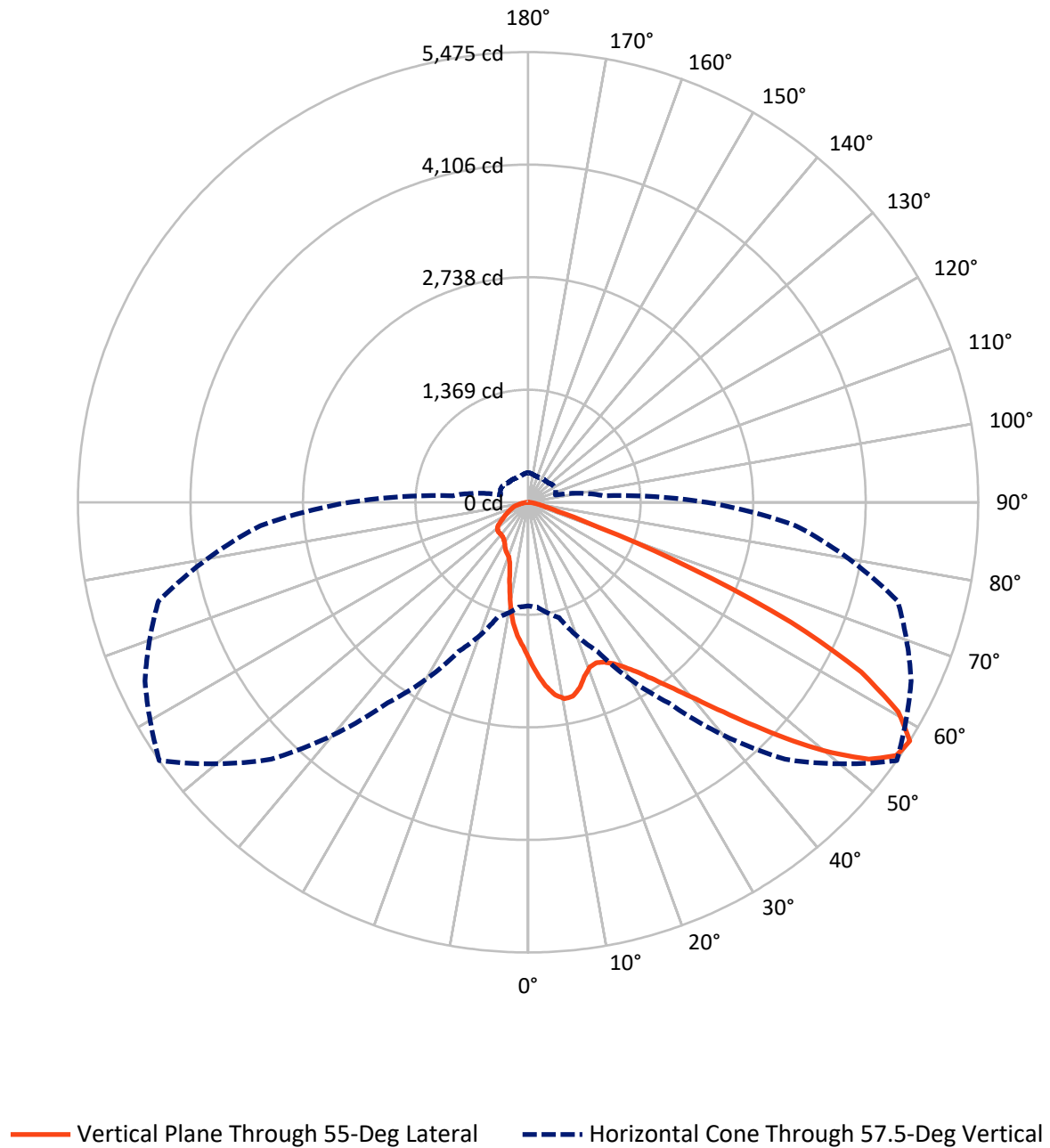


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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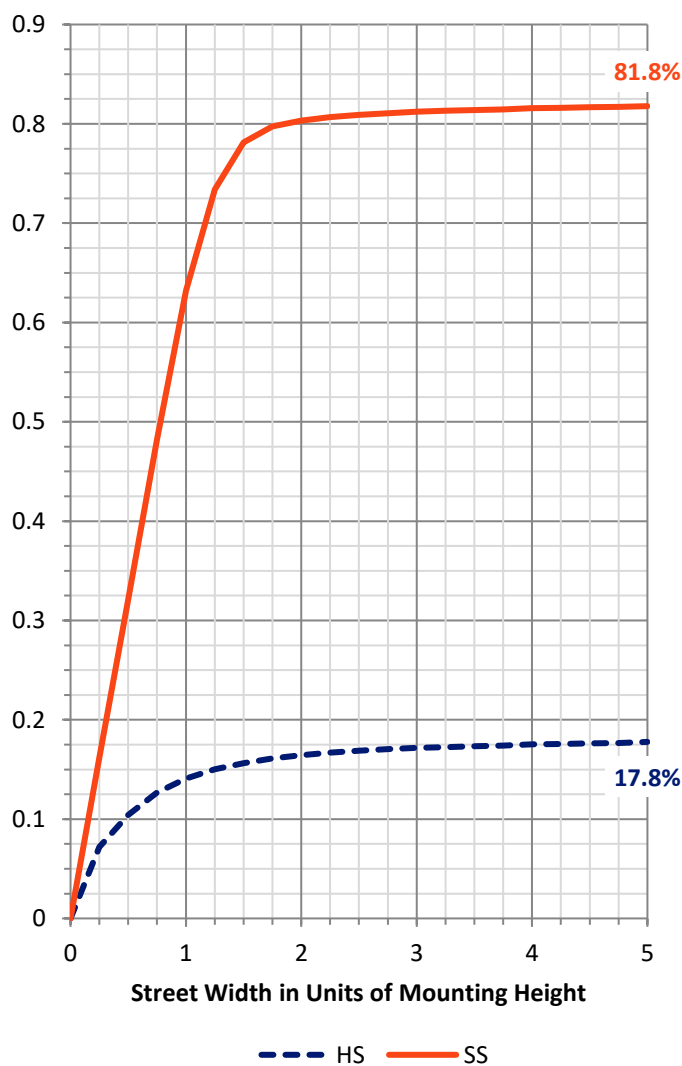
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1378.6	0.0	1378.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6240.4	0.0	6240.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	7619.0	0.0	7619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.1	2.3
10°-20°	447.1	5.9
20°-30°	713.5	9.4
30°-40°	1129.6	14.8
40°-50°	1729.0	22.7
50°-60°	1852.0	24.3
60°-70°	1165.1	15.3
70°-80°	344.5	4.5
80°-90°	60.9	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°	7619.0	100.0
0°-180°	7619.0	100.0

Coefficient of Utilization



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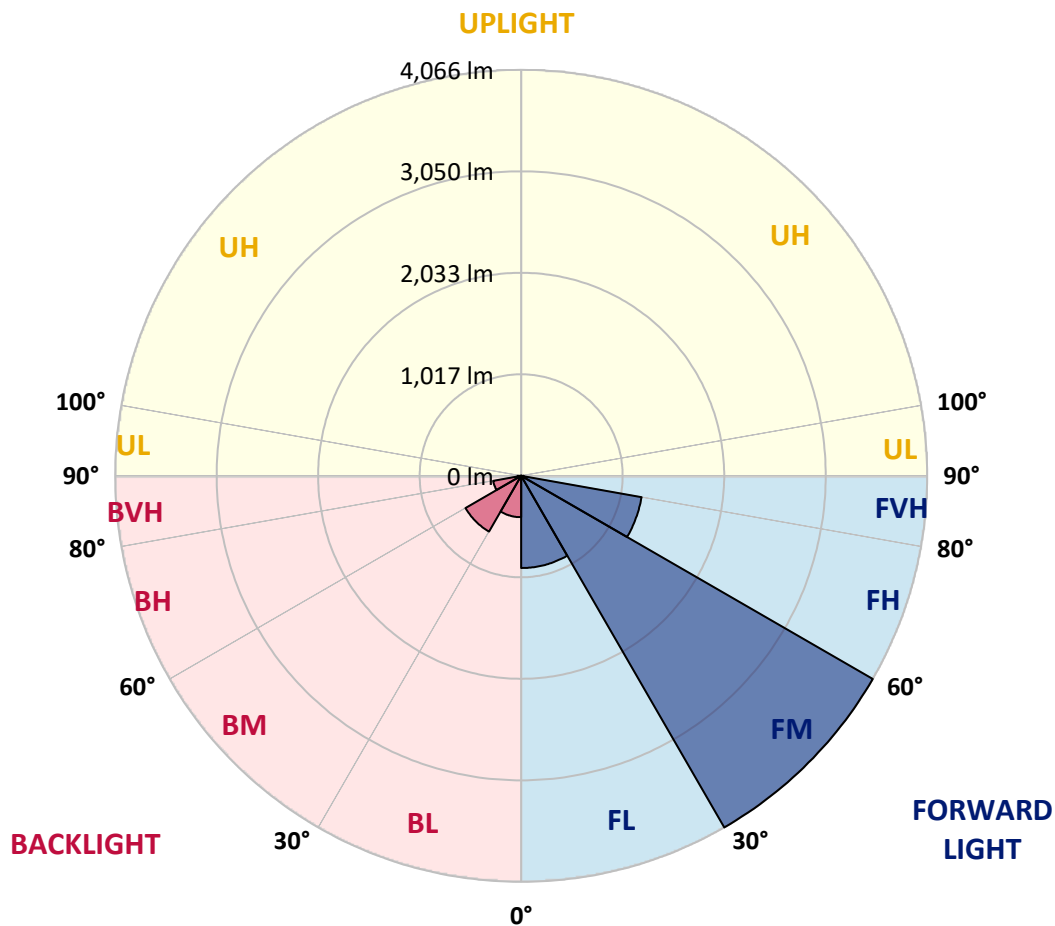
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	923.4	12.1			
FM	(30°-60°)	4066.3	53.4			
FH	(60°-80°)	1224.9	16.1			G1/1800
FVH	(80°-90°)	25.7	0.3			G1/100
BL	(0°-30°)	414.4	5.4	B1/500		
BM	(30°-60°)	644.4	8.5	B1/1000		
BH	(60°-80°)	284.7	3.7	B1/500		G1/500
BVH	(80°-90°)	35.2	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°	1909.1	1909.1	1909.1	1909.1	1909.1	1909.1	1909.1	1909.1	1909.1	1909.1	1909.1
2.5°	2190.3	2188.7	2197.4	2167.8	2147.8	2120.6	2084.7	2039.1	1989.8	1937.8	1915.4
5°	2387.6	2373.8	2382.9	2360.8	2338.8	2297.8	2244.6	2170.2	2079.2	1975.6	1920.5
7.5°	2356.5	2347.1	2370.3	2390.0	2406.5	2401.4	2362.4	2284.4	2167.1	2016.6	1936.6
10°	2105.6	2095.0	2127.7	2195.8	2295.9	2382.9	2430.2	2381.7	2256.9	2061.5	1952.4
12.5°	1884.3	1879.1	1900.8	1955.9	2067.0	2234.0	2421.5	2466.8	2350.2	2114.7	1973.7
15°	1789.7	1783.4	1797.2	1825.2	1896.1	2051.7	2342.7	2525.1	2442.0	2176.1	2007.5
17.5°	1768.9	1761.8	1767.7	1782.2	1827.9	1946.5	2223.8	2553.8	2537.7	2244.6	2035.9
20°	1807.5	1801.5	1802.3	1801.5	1833.5	1927.6	2141.1	2542.8	2621.2	2307.7	2063.5
22.5°	1900.8	1891.0	1891.4	1870.5	1887.8	1960.7	2119.4	2513.3	2695.6	2362.8	2084.3
25°	2052.8	2035.1	2038.7	1985.5	1980.8	2034.7	2153.3	2490.4	2769.7	2406.9	2088.3
27.5°	2260.8	2240.7	2230.1	2150.9	2113.1	2139.9	2222.2	2498.3	2839.8	2445.1	2078.4
30°	2520.7	2496.3	2474.7	2362.4	2293.9	2284.0	2329.3	2550.3	2922.5	2485.3	2061.5
32.5°	2839.4	2811.0	2771.6	2622.8	2526.3	2474.7	2468.0	2642.8	3019.4	2536.5	2052.8
35°	3218.7	3181.7	3125.7	2933.1	2811.0	2705.5	2650.7	2776.4	3152.1	2613.7	2062.7
37.5°	3609.4	3567.6	3516.4	3287.2	3137.2	2981.6	2873.7	2957.5	3329.0	2718.5	2088.7
40°	3969.8	3922.9	3875.3	3671.2	3510.1	3322.7	3146.6	3186.8	3545.2	2843.7	2132.8
42.5°	4182.5	4147.8	4129.7	4019.4	3895.0	3704.7	3486.1	3458.5	3788.2	2987.9	2183.2
45°	4173.0	4158.8	4214.8	4260.5	4230.9	4125.4	3883.9	3759.1	4032.0	3112.7	2229.7
47.5°	3950.1	3959.5	4084.4	4341.2	4454.2	4509.4	4336.9	4054.1	4243.9	3206.1	2250.6
50°	3343.5	3351.4	3640.5	4194.3	4511.7	4822.5	4786.3	4342.0	4408.2	3263.2	2245.8
52.5°	2863.4	2868.5	2992.6	3758.7	4321.9	4980.1	5191.2	4613.4	4528.3	3278.9	2219.4
55°	2156.8	2174.5	2313.6	2948.9	3828.0	4855.2	5437.7	4893.0	4604.3	3280.5	2191.9
57.5°	1260.0	1279.3	1451.0	2001.6	2975.3	4420.0	5475.1	5141.1	4655.9	3267.9	2175.3
60°	617.2	625.5	700.3	1052.0	1834.6	3581.4	5174.2	5261.3	4684.7	3261.2	2174.5
62.5°	415.9	414.7	417.9	519.1	903.9	2301.0	4547.2	5051.0	4669.3	3235.6	2166.7
65°	357.6	353.3	341.5	364.3	468.3	1052.4	3513.3	4423.1	4552.3	3171.4	2112.7
67.5°	309.2	309.6	310.0	302.9	334.4	485.6	2147.0	3484.1	4132.5	2867.4	1904.7
70°	256.0	259.6	261.1	261.1	272.6	318.6	916.5	2388.0	3259.6	2248.2	1534.1
72.5°	233.2	225.7	226.5	222.5	222.5	242.6	369.1	1353.7	2053.6	1264.7	936.2
75°	190.2	195.0	195.8	193.0	183.9	185.1	219.0	568.0	878.7	524.6	462.8
77.5°	164.2	164.2	165.8	163.8	156.8	138.6	146.1	220.2	298.9	215.1	231.2
80°	131.9	131.6	138.2	142.2	131.2	102.4	93.3	121.7	132.7	94.5	120.1
82.5°	64.2	68.1	94.9	108.3	99.6	74.0	57.1	75.6	70.9	41.7	54.0
85°	37.4	35.4	42.5	60.3	57.1	41.0	27.6	39.4	37.0	21.3	21.7
87.5°	11.8	11.0	8.7	20.5	16.5	11.4	7.5	11.4	10.2	4.7	4.7
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°	1909.1	1909.1	1909.1	1909.1	1909.1	1909.1	1909.1	1909.1	1909.1	1909.1
2.5°	1887.4	1840.9	1794.9	1752.7	1727.1	1710.6	1694.0	1675.5	1668.4	1657.8
5°	1868.5	1778.7	1698.7	1629.8	1567.2	1518.0	1468.3	1428.2	1410.0	1422.3
7.5°	1857.5	1727.5	1604.2	1477.8	1356.1	1258.8	1174.1	1114.6	1087.9	1094.6
10°	1847.6	1669.6	1481.7	1282.0	1107.2	986.6	900.0	854.7	837.8	841.3
12.5°	1838.6	1604.6	1334.0	1071.3	885.4	805.9	781.0	781.4	784.6	786.9
15°	1837.0	1526.2	1169.0	887.0	765.7	760.6	787.3	804.3	813.3	816.1
17.5°	1834.6	1432.5	1000.8	761.3	736.5	771.2	796.0	807.0	814.1	814.5
20°	1825.2	1313.5	845.6	701.5	730.2	760.2	775.5	784.2	790.1	792.1
22.5°	1796.0	1181.2	724.7	674.7	705.0	729.0	747.2	757.0	760.6	762.9
25°	1743.6	1033.1	641.2	649.1	670.0	700.3	714.9	716.8	715.7	719.2
27.5°	1675.1	874.4	589.2	614.4	641.2	667.2	675.1	673.9	671.5	675.5
30°	1592.4	731.8	556.1	575.4	612.1	635.7	642.8	640.0	635.3	639.6
32.5°	1505.0	615.2	529.0	548.3	588.0	611.3	618.4	615.6	612.1	615.6
35°	1423.4	533.7	503.8	530.1	569.1	592.0	601.0	601.4	601.4	605.8
37.5°	1348.6	486.0	482.9	518.7	556.1	576.6	589.6	590.4	573.5	574.7
40°	1279.3	465.9	473.4	511.2	543.5	563.2	564.0	519.9	488.8	488.0
42.5°	1222.6	462.0	476.2	510.5	534.5	535.3	479.7	445.5	436.8	437.2
45°	1169.4	460.8	482.5	510.5	521.1	462.4	425.0	415.9	416.7	419.9
47.5°	1109.9	456.1	483.7	503.4	482.5	411.2	400.2	396.2	394.7	395.4
50°	1044.9	439.2	468.7	489.2	416.3	389.1	375.4	374.2	376.1	377.3
52.5°	976.4	411.6	443.1	463.6	386.0	369.8	354.5	357.2	365.9	368.7
55°	931.5	379.3	409.2	412.4	364.7	351.7	338.7	345.0	361.2	366.3
57.5°	919.7	345.0	370.6	367.1	337.5	336.0	328.1	333.6	354.1	361.6
60°	916.1	314.3	332.8	330.1	311.2	318.6	316.7	319.4	326.5	328.9
62.5°	888.6	289.9	298.9	295.0	287.5	300.5	305.2	299.3	304.9	307.6
65°	818.5	270.2	265.9	263.1	266.3	278.1	287.5	275.7	280.8	288.7
67.5°	702.7	243.4	231.6	234.7	244.6	250.9	263.1	249.7	254.0	267.4
70°	568.4	209.5	198.9	208.0	217.4	230.4	232.4	223.3	233.6	248.5
72.5°	402.1	175.3	167.8	186.3	189.5	206.4	202.1	197.7	211.9	217.0
75°	278.9	141.4	137.1	151.2	162.7	177.2	174.1	179.2	209.1	211.5
77.5°	176.5	109.9	107.1	116.2	131.9	148.1	153.2	211.5	357.2	371.4
80°	102.4	81.9	78.8	85.9	99.6	114.6	147.7	259.6	235.5	232.8
82.5°	57.1	56.3	52.4	54.4	66.6	82.7	208.7	182.8	148.5	153.2
85°	26.8	33.1	28.4	27.2	37.4	96.9	139.4	104.4	69.3	67.7
87.5°	7.1	6.3	6.3	7.1	15.8	83.5	55.5	44.5	26.4	25.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)