

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: P947688

Luminaire Tested: **GALN-SB3A-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-722-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9480 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 84.7
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

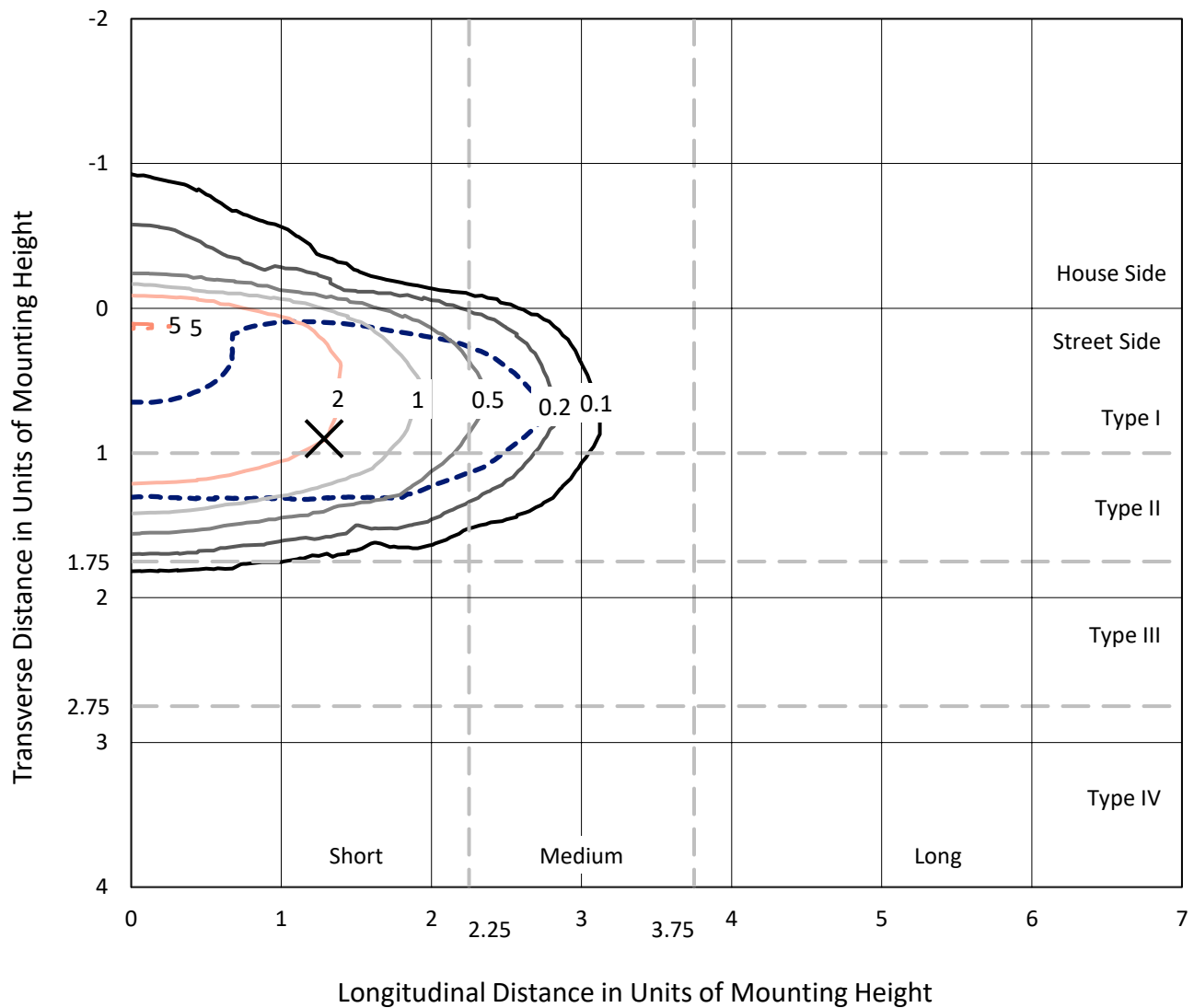


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Iso-Footcandle Lines of Horizontal Illumination

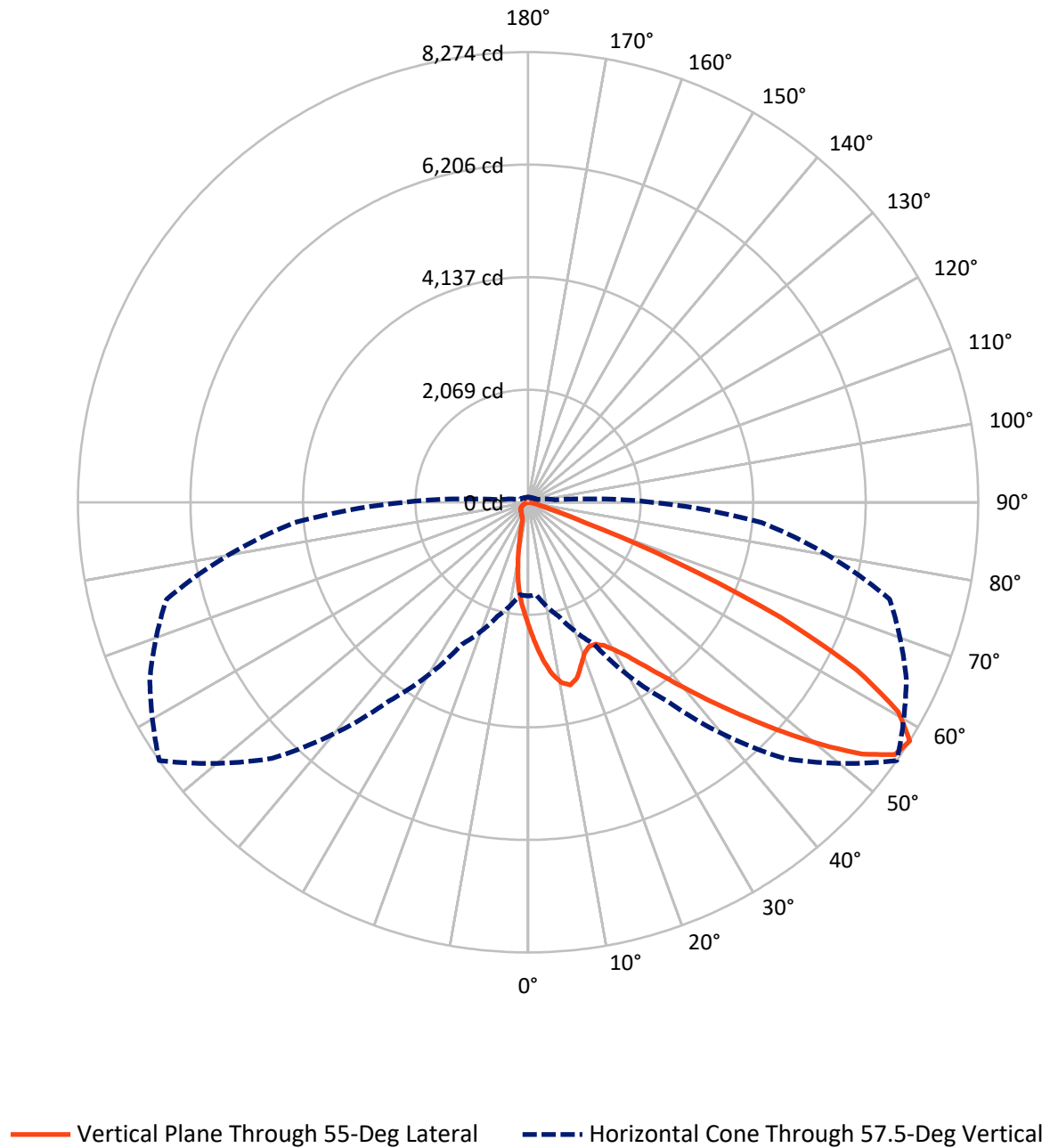
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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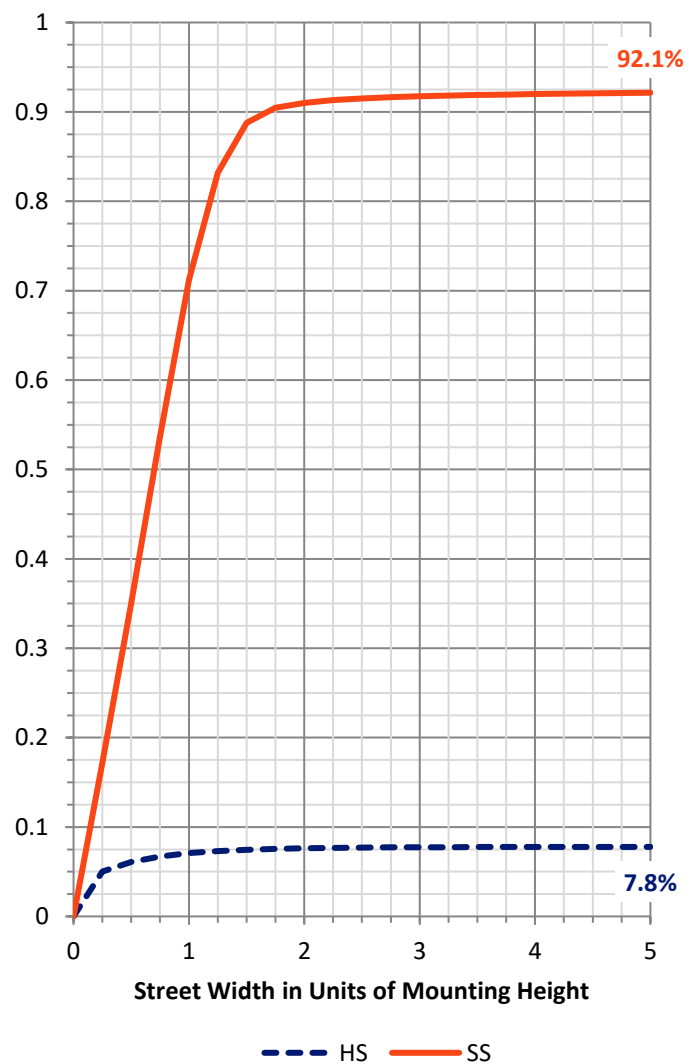
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	740.4	0.0	740.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	8739.6	0.0	8739.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	9480.0	0.0	9480.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.6	2.2
10°-20°	513.4	5.4
20°-30°	821.5	8.7
30°-40°	1390.4	14.7
40°-50°	2282.7	24.1
50°-60°	2508.9	26.5
60°-70°	1439.1	15.2
70°-80°	294.1	3.1
80°-90°	17.3	0.2
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°	9480.0	100.0
0°-180°	9480.0	100.0

Coefficient of Utilization



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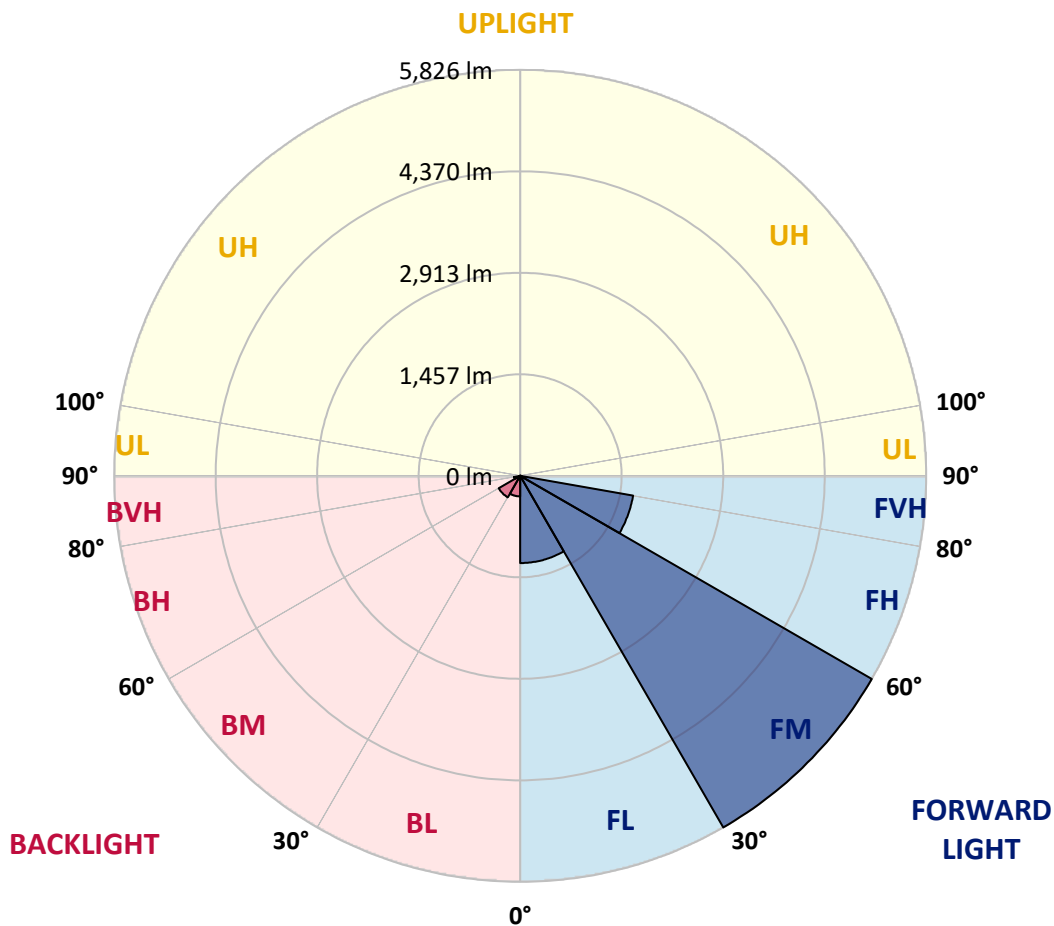
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1251.9	13.2			
FM	(30°-60°)	5826.5	61.5			
FH	(60°-80°)	1645.1	17.4			G1/1800
FVH	(80°-90°)	16.2	0.2			G1/100
BL	(0°-30°)	295.6	3.1	B1/500		
BM	(30°-60°)	355.6	3.8	B1/1000		
BH	(60°-80°)	88.1	0.9	B0/110		G0/110
BVH	(80°-90°)	1.2	0.0			G0/10
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°	2284.4	2284.4	2284.4	2284.4	2284.4	2284.4	2284.4	2284.4	2284.4	2284.4	2284.4
2.5°	2834.5	2798.9	2793.6	2786.6	2718.8	2667.9	2594.3	2513.6	2423.0	2330.6	2289.7
5°	3274.7	3246.6	3241.4	3208.6	3131.5	3045.0	2914.0	2748.6	2579.6	2380.9	2295.6
7.5°	3360.0	3354.8	3378.7	3377.6	3367.0	3298.7	3188.2	2991.2	2737.5	2442.9	2310.8
10°	2979.5	2992.9	3064.2	3126.8	3295.7	3393.9	3370.0	3207.5	2900.0	2513.6	2327.7
12.5°	2632.8	2617.1	2667.9	2738.6	2935.1	3227.3	3445.4	3388.1	3085.9	2593.7	2352.8
15°	2415.4	2409.0	2437.6	2470.3	2620.0	2914.6	3357.7	3534.8	3264.7	2688.4	2390.8
17.5°	2345.8	2340.6	2349.3	2357.5	2454.6	2682.5	3149.0	3624.8	3436.0	2796.5	2432.9
20°	2402.5	2395.5	2394.3	2387.9	2428.2	2583.7	2960.2	3631.3	3589.8	2894.7	2469.2
22.5°	2568.0	2559.8	2531.1	2505.4	2508.9	2597.2	2876.0	3567.0	3705.5	2986.5	2492.0
25°	2867.8	2854.4	2794.8	2708.2	2653.3	2690.7	2888.9	3482.2	3816.0	3058.4	2480.9
27.5°	3243.1	3225.6	3149.0	3020.4	2894.7	2849.1	2981.8	3423.7	3907.8	3113.3	2456.9
30°	3610.8	3588.0	3512.6	3412.6	3229.1	3085.3	3149.6	3449.5	4017.1	3170.6	2425.3
32.5°	4007.7	3986.1	3886.1	3762.2	3610.2	3416.7	3379.3	3575.1	4150.9	3250.7	2403.1
35°	4509.9	4475.9	4333.9	4165.0	4003.6	3807.8	3690.3	3792.0	4329.2	3372.9	2415.4
37.5°	5081.5	5036.0	4882.8	4649.6	4439.1	4219.9	4069.1	4090.1	4590.5	3536.6	2453.4
40°	5620.5	5579.0	5437.5	5217.8	4953.5	4687.6	4526.8	4480.0	4951.2	3735.9	2520.0
42.5°	5943.8	5906.4	5846.7	5753.8	5531.1	5259.8	5057.0	4955.9	5377.9	3974.4	2601.3
45°	5961.9	5929.2	6009.2	6117.4	6073.5	5892.9	5645.6	5460.3	5806.4	4198.3	2685.5
47.5°	5672.0	5649.7	5892.9	6270.5	6458.8	6534.8	6306.8	5922.7	6160.1	4359.0	2719.9
50°	4881.6	4873.4	5373.8	6067.1	6605.5	7097.1	7004.2	6353.0	6434.2	4442.0	2687.2
52.5°	4232.8	4203.0	4494.7	5415.9	6392.1	7392.9	7685.7	6775.0	6625.9	4457.8	2610.6
55°	3210.4	3184.1	3550.0	4326.3	5704.1	7287.7	8184.4	7210.5	6763.3	4417.5	2473.3
57.5°	1722.1	1705.7	2168.1	2879.5	4459.0	6656.3	8274.4	7671.1	6879.1	4310.5	2280.9
60°	670.5	667.6	840.6	1397.1	2710.0	5415.3	7820.2	7947.6	6951.5	4179.0	2120.2
62.5°	405.7	414.5	442.5	627.2	1197.2	3364.1	6773.3	7633.1	7000.1	4058.6	1987.5
65°	335.5	336.1	339.6	430.8	573.4	1407.6	5099.1	6598.5	6880.2	3844.0	1799.3
67.5°	287.6	292.9	306.3	342.0	404.5	617.3	2935.6	5111.4	6151.3	3344.8	1505.8
70°	226.8	233.8	250.8	281.2	312.2	386.4	1084.9	3400.9	4699.2	2521.2	1138.7
72.5°	191.1	190.6	199.3	228.6	247.9	271.8	417.4	1905.7	2731.0	1203.6	563.5
75°	147.9	153.7	164.8	191.1	202.8	197.0	226.2	696.2	978.5	364.8	191.7
77.5°	115.7	120.4	130.4	156.1	167.8	139.7	130.4	249.0	314.5	130.9	86.5
80°	52.0	56.1	88.9	115.2	136.8	96.5	70.7	127.4	139.7	59.6	43.8
82.5°	9.4	15.8	52.0	60.8	70.1	62.5	36.8	66.1	68.4	24.0	15.2
85°	0.6	1.2	18.1	22.2	28.1	20.5	11.1	26.3	22.8	8.2	5.8
87.5°	0.0	0.0	0.0	0.6	0.6	2.9	3.5	4.7	3.5	2.9	2.3
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°	2284.4	2284.4	2284.4	2284.4	2284.4	2284.4	2284.4	2284.4	2284.4	2284.4
2.5°	2247.6	2164.6	2083.9	2017.9	1979.3	1913.8	1870.6	1863.6	1845.4	1861.2
5°	2204.4	2055.9	1905.7	1771.2	1660.7	1518.1	1411.7	1366.7	1327.5	1341.0
7.5°	2183.9	1949.5	1715.7	1485.9	1249.8	1021.8	852.3	781.6	727.8	735.4
10°	2156.4	1839.0	1472.5	1121.8	805.5	580.5	463.6	420.3	396.3	396.9
12.5°	2135.4	1706.9	1190.2	760.5	490.4	370.6	334.4	323.8	316.8	317.4
15°	2124.9	1551.4	911.3	506.8	350.7	313.9	305.1	300.5	295.8	295.2
17.5°	2107.3	1378.4	667.0	370.0	306.9	294.0	286.4	281.2	275.3	274.2
20°	2081.0	1182.0	487.5	312.7	287.6	277.7	267.1	260.1	253.1	251.9
22.5°	2032.5	974.5	374.7	289.4	273.6	262.5	249.6	241.4	234.4	233.2
25°	1942.5	779.8	315.7	274.7	261.3	247.9	233.8	222.7	216.3	215.1
27.5°	1828.5	612.6	286.4	261.3	245.5	233.2	217.5	206.9	201.1	199.9
30°	1694.0	471.7	269.5	246.1	226.8	216.3	202.3	193.5	190.0	190.0
32.5°	1549.1	377.0	262.5	230.9	210.4	198.7	187.6	184.1	183.0	182.4
35°	1412.9	327.4	259.0	218.6	195.8	184.7	180.0	180.6	183.0	183.0
37.5°	1291.9	311.6	257.2	209.9	183.0	173.0	176.0	181.2	178.9	178.9
40°	1182.6	313.3	256.0	203.4	172.4	166.6	172.4	168.4	162.5	161.9
42.5°	1099.0	327.9	253.7	198.2	166.0	161.9	159.6	153.2	152.6	153.7
45°	1038.2	340.8	253.1	195.8	159.0	151.4	148.5	142.0	153.7	156.7
47.5°	966.3	340.8	253.1	187.6	147.3	144.4	139.7	132.7	144.4	147.3
50°	873.3	319.2	243.2	178.3	138.0	136.2	128.0	119.2	116.9	118.7
52.5°	755.8	280.0	218.0	165.4	128.6	125.1	115.2	108.7	107.0	107.0
55°	622.0	234.4	184.1	146.7	118.7	112.2	105.2	102.3	100.5	99.4
57.5°	505.6	192.3	147.9	130.4	109.3	101.1	98.8	95.3	92.4	90.6
60°	415.0	151.4	122.2	115.7	100.0	92.4	91.8	87.1	79.5	78.3
62.5°	320.3	111.1	102.9	100.5	90.6	84.2	83.0	73.7	62.0	59.6
65°	226.2	86.5	83.0	88.3	80.7	74.8	71.9	57.9	45.6	43.8
67.5°	159.0	72.5	65.5	77.2	70.1	62.5	60.8	49.1	38.0	36.8
70°	113.4	59.0	53.8	66.1	56.1	54.9	51.4	40.9	31.0	29.8
72.5°	80.1	45.0	41.5	57.3	38.6	47.3	42.1	31.6	23.4	22.2
75°	59.0	32.2	29.2	33.3	28.1	35.7	29.8	21.0	14.6	14.0
77.5°	43.3	20.5	17.5	16.4	16.4	22.2	16.4	8.8	6.4	5.8
80°	30.4	9.4	8.2	7.0	6.4	5.3	2.3	1.2	0.6	0.6
82.5°	18.1	4.1	4.1	2.9	1.8	0.0	0.0	0.0	0.0	0.0
85°	4.1	1.8	1.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)