

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: P947337

Luminaire Tested: **GALN-SB2D-722-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-722-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16430 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 147.6
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



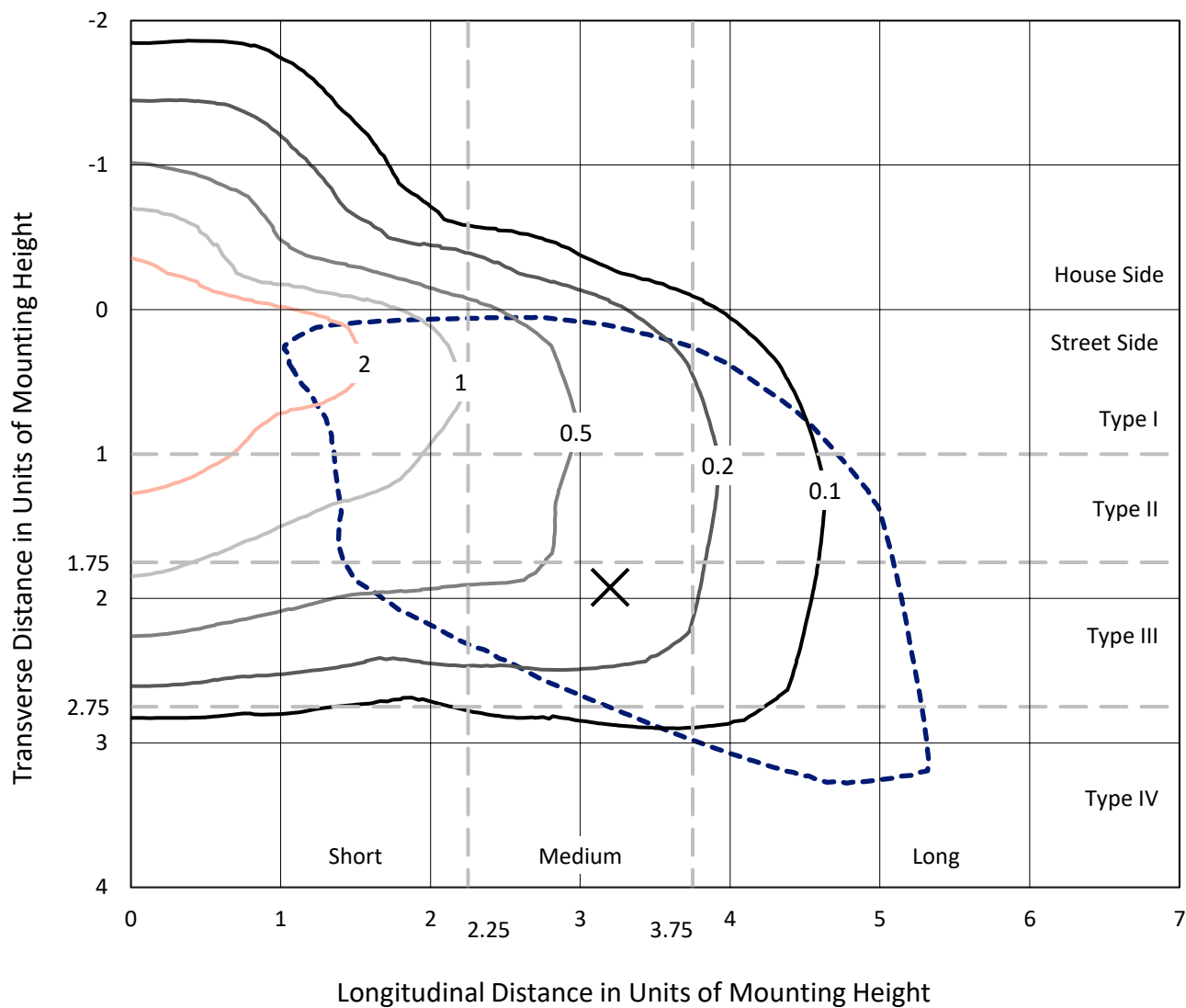
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



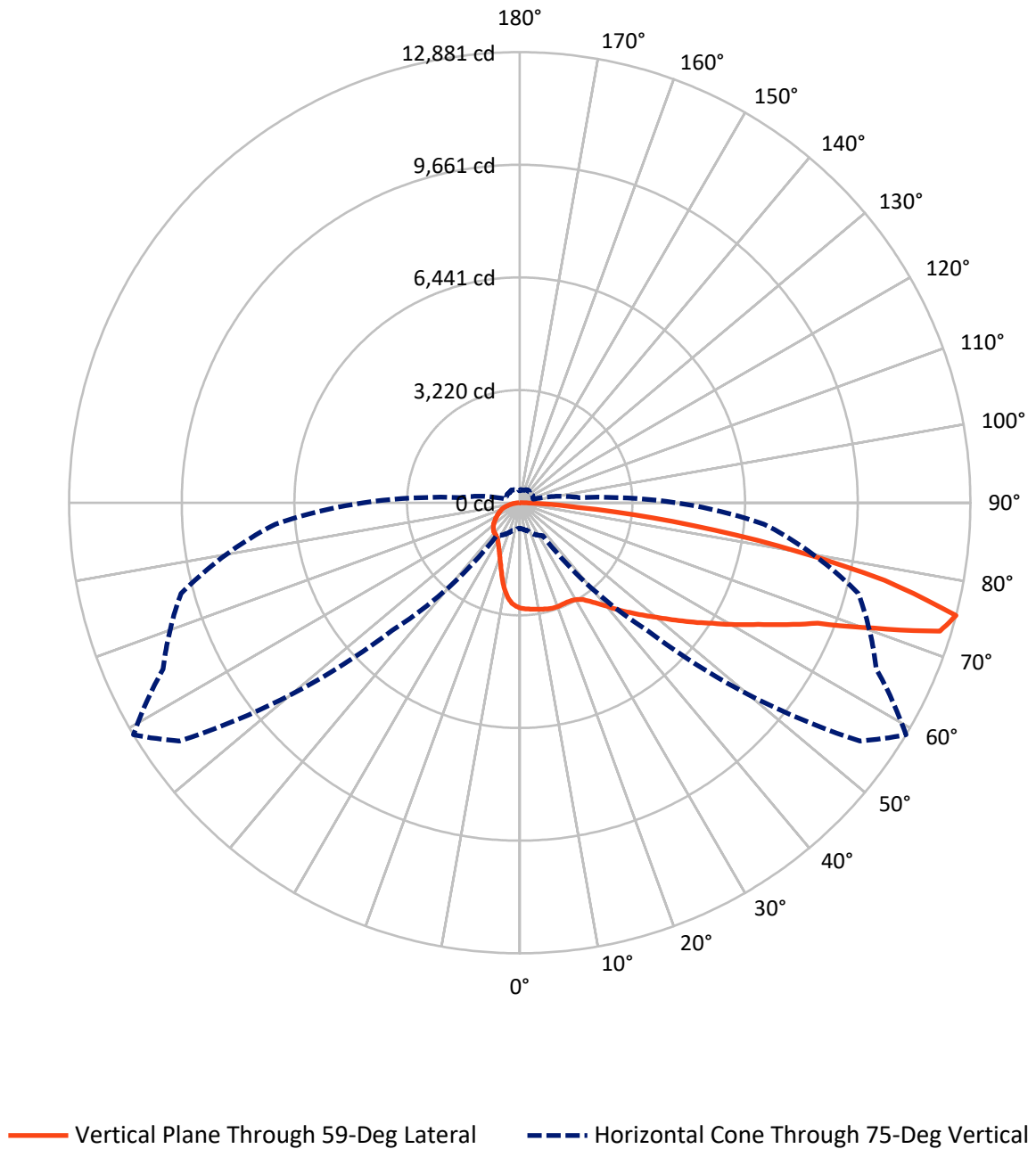
Based on 25 foot mounting height. Maximum calculated value = 4.8 fc

Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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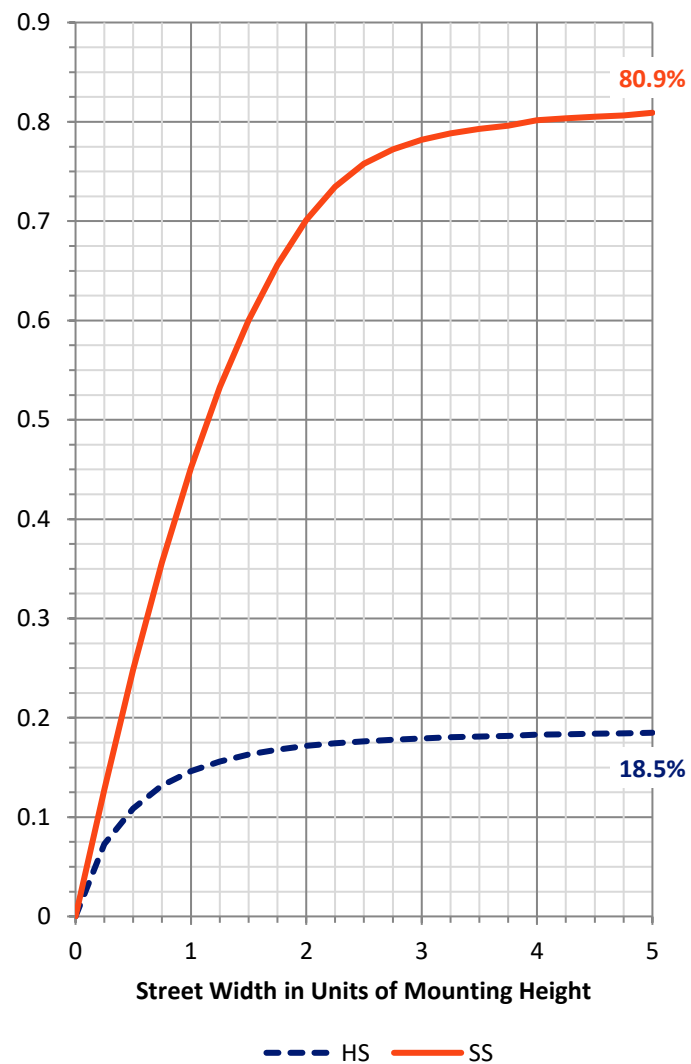
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3081.6	0.0	3081.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	13348.4	0.0	13348.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	16430.0	0.0	16430.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.4	1.6
10°-20°	691.2	4.2
20°-30°	1049.8	6.4
30°-40°	1560.6	9.5
40°-50°	2320.8	14.1
50°-60°	3150.2	19.2
60°-70°	3845.9	23.4
70°-80°	3018.2	18.4
80°-90°	522.8	3.2
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°	16430.0	100.0
0°-180°	16430.0	100.0

Coefficient of Utilization



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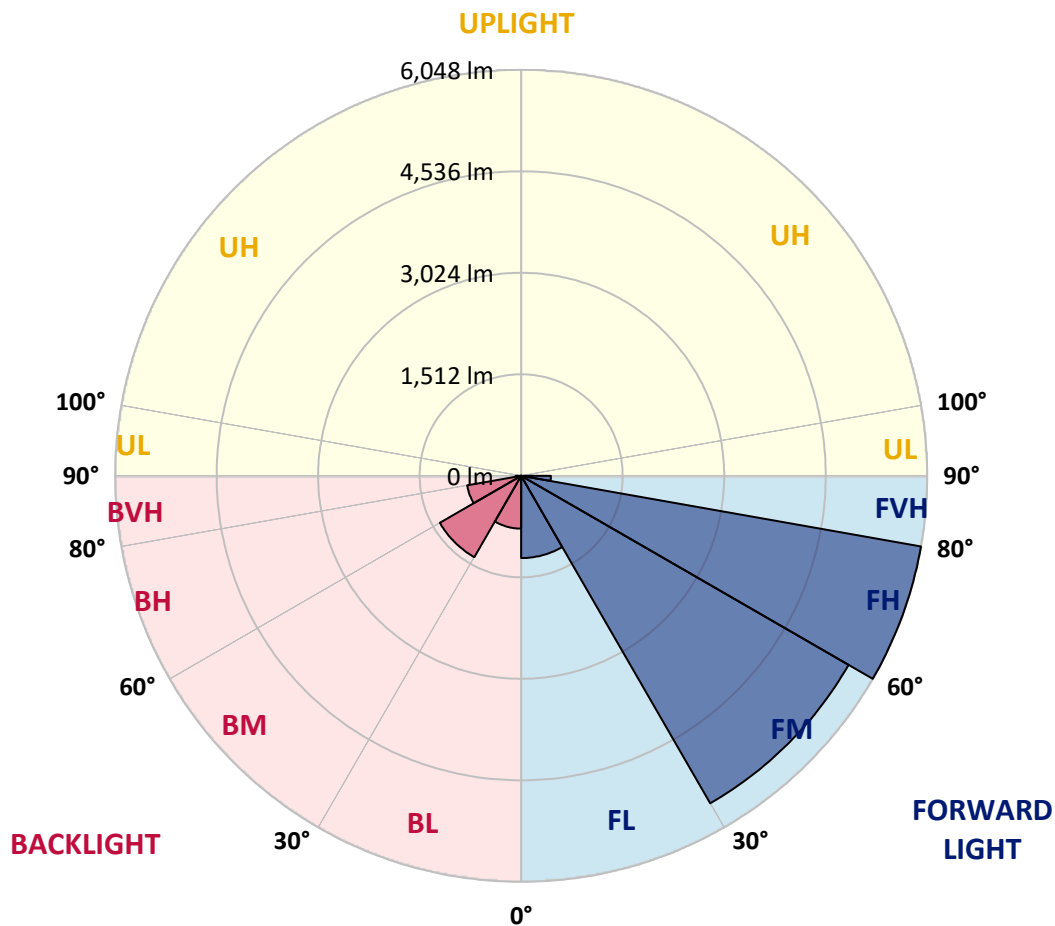
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1225.0	7.5			
FM	(30°-60°)	5632.9	34.3			
FH	(60°-80°)	6047.7	36.8			G3/7500
FVH	(80°-90°)	442.8	2.7			G3/500
BL	(0°-30°)	786.4	4.8	B2/1000		
BM	(30°-60°)	1398.7	8.5	B2/2500		
BH	(60°-80°)	816.4	5.0	B2/1000		G2/1000
BVH	(80°-90°)	80.0	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-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7
2.5°	3041.3	3030.7	3041.3	3036.9	3035.1	3031.6	3032.5	3038.7	3035.1	3039.6	3024.5
5°	3021.0	3014.8	3025.4	3022.8	3034.3	3036.0	3047.5	3054.6	3059.0	3059.9	3048.4
7.5°	2987.4	2981.2	2996.2	3008.6	3033.4	3040.4	3064.3	3075.8	3082.0	3092.6	3075.8
10°	2864.6	2861.9	2899.0	2945.9	3004.2	3040.4	3076.7	3096.1	3105.8	3134.1	3114.7
12.5°	2647.1	2650.7	2699.3	2789.4	2906.1	3022.8	3090.8	3119.1	3134.1	3169.5	3160.6
15°	2439.4	2438.5	2491.6	2587.9	2751.4	2945.0	3097.9	3146.5	3172.1	3224.3	3217.2
17.5°	2319.2	2315.7	2352.8	2426.2	2578.2	2825.7	3080.2	3161.5	3216.3	3281.7	3275.5
20°	2297.1	2290.1	2309.5	2345.7	2453.6	2694.9	3034.3	3161.5	3251.7	3336.5	3333.0
22.5°	2377.6	2366.1	2358.1	2353.7	2401.4	2587.0	2982.1	3150.9	3303.8	3415.2	3409.0
25°	2539.3	2521.6	2481.0	2441.2	2427.0	2538.4	2936.1	3148.3	3381.6	3521.3	3498.3
27.5°	2800.9	2778.8	2696.6	2601.2	2515.4	2563.2	2915.8	3164.2	3467.3	3633.5	3587.5
30°	3125.3	3101.4	2998.0	2851.3	2697.5	2655.1	2941.4	3211.0	3576.9	3782.9	3692.7
32.5°	3416.1	3389.6	3301.2	3151.8	2944.1	2814.2	3022.8	3300.3	3749.3	3990.6	3850.9
35°	3674.2	3643.2	3563.7	3425.8	3246.4	3037.8	3169.5	3458.5	3994.1	4328.2	4065.7
37.5°	3926.9	3890.7	3804.1	3658.2	3532.7	3335.6	3371.9	3661.8	4319.4	4738.3	4350.3
40°	4209.8	4157.6	4052.4	3908.4	3786.4	3684.8	3637.9	3911.0	4649.9	5196.1	4705.6
42.5°	4483.8	4434.3	4308.8	4185.9	4033.0	4003.8	3946.4	4202.7	5011.4	5699.1	5066.2
45°	4779.0	4719.7	4567.7	4412.2	4315.8	4216.0	4245.1	4494.4	5365.8	6211.7	5444.5
47.5°	5055.6	4989.3	4809.9	4636.7	4583.6	4394.5	4519.1	4815.2	5734.4	6731.4	5819.3
50°	5205.0	5139.6	4990.2	4833.8	4792.2	4614.6	4816.1	5167.9	6120.6	7249.3	6179.0
52.5°	5329.6	5258.9	5063.6	4976.9	4964.6	4854.1	5182.0	5570.9	6506.9	7707.2	6526.3
55°	5462.2	5383.5	5134.3	5056.5	5113.1	5122.8	5616.0	6027.8	6915.2	8153.5	6854.2
57.5°	5615.1	5515.2	5202.3	5123.7	5258.0	5437.4	6114.5	6501.6	7316.5	8567.1	7145.9
60°	5759.2	5658.4	5333.1	5230.6	5414.5	5802.5	6686.3	7075.2	7770.8	8935.7	7421.7
62.5°	5787.4	5704.4	5437.4	5436.5	5626.6	6228.5	7363.3	7654.1	8167.6	9299.9	7669.2
65°	5297.8	5245.6	5087.4	5428.6	5930.6	6841.9	8117.3	8394.8	8672.3	9618.0	7886.6
67.5°	4032.1	4039.2	4027.7	4686.2	5684.9	7723.1	9208.8	9187.6	9295.4	9975.1	8136.7
70°	1843.7	1885.2	2155.7	3234.9	4554.5	7824.7	11013.6	10738.8	10077.6	10437.4	8353.2
72.5°	996.1	1027.9	1138.4	1567.1	2738.2	6956.8	12362.4	12557.7	11117.9	10748.5	8115.5
75°	730.9	748.6	825.5	996.1	1149.9	5170.5	11878.9	12881.2	11247.9	10022.8	7008.0
77.5°	547.1	555.1	617.8	789.3	588.6	2725.8	9491.6	10668.0	9628.6	8234.8	5176.7
80°	396.8	405.7	452.5	592.2	412.8	997.0	6517.5	7488.0	6594.4	5249.2	2580.0
82.5°	274.0	277.5	297.9	403.0	288.1	387.1	3698.0	4391.0	3681.2	1841.9	696.5
85°	165.3	169.7	178.5	235.1	163.5	183.8	1596.2	1651.0	1100.4	440.2	216.5
87.5°	68.1	72.5	79.5	99.0	64.5	51.3	263.4	330.6	205.9	129.0	67.2
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°	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7
2.5°	3020.1	3013.9	2997.1	2974.1	2952.9	2926.4	2914.9	2905.2	2896.4	2879.6	2871.6
5°	3038.7	3021.9	2976.8	2918.5	2852.2	2779.7	2709.0	2660.4	2618.8	2587.9	2562.3
7.5°	3067.0	3035.1	2952.9	2833.6	2681.6	2526.0	2385.5	2285.6	2210.5	2183.1	2135.4
10°	3096.1	3058.1	2914.9	2704.6	2442.1	2202.5	2016.1	1913.5	1853.4	1834.0	1803.9
12.5°	3130.6	3074.9	2855.7	2525.2	2174.3	1911.8	1749.1	1689.0	1658.1	1647.5	1650.1
15°	3181.0	3089.0	2766.4	2300.7	1918.8	1699.6	1594.5	1552.9	1537.0	1536.1	1539.7
17.5°	3219.0	3091.7	2627.7	2060.3	1722.6	1571.5	1484.9	1469.0	1479.6	1495.5	1501.7
20°	3261.4	3067.8	2445.6	1841.1	1584.7	1459.2	1423.0	1433.6	1459.2	1482.2	1490.2
22.5°	3291.5	3024.5	2225.5	1670.5	1465.4	1394.7	1392.9	1415.0	1429.2	1440.7	1446.9
25°	3318.0	2951.2	1992.2	1527.3	1367.3	1355.8	1375.3	1368.2	1358.5	1368.2	1374.4
27.5°	3337.4	2835.4	1783.6	1401.8	1298.4	1329.3	1317.8	1301.9	1301.0	1306.3	1315.2
30°	3331.2	2680.7	1612.1	1282.5	1249.8	1279.8	1252.4	1249.8	1247.1	1249.8	1259.5
32.5°	3331.2	2504.8	1480.4	1200.3	1218.8	1207.3	1204.7	1198.5	1187.9	1187.0	1198.5
35°	3349.8	2328.9	1367.3	1156.1	1193.2	1165.8	1167.6	1152.5	1130.4	1119.8	1130.4
37.5°	3387.8	2187.5	1255.1	1134.9	1148.1	1147.2	1140.2	1114.5	1075.6	1042.1	1053.5
40°	3479.7	2146.0	1178.2	1125.1	1126.9	1137.5	1119.0	1069.5	981.1	926.3	933.3
42.5°	3623.8	2215.8	1161.4	1101.3	1112.8	1123.4	1087.1	972.2	909.5	876.8	876.8
45°	3806.7	2337.8	1197.6	1066.8	1079.2	1097.7	989.9	935.1	906.8	907.7	912.1
47.5°	4038.3	2465.9	1264.8	1036.8	1030.6	1041.2	925.4	891.8	852.9	862.6	887.4
50°	4306.1	2595.9	1328.4	996.1	976.7	942.2	883.8	852.0	802.5	779.6	785.7
52.5°	4596.0	2721.4	1354.1	946.6	918.3	878.5	855.6	816.7	756.6	718.6	717.7
55°	4870.9	2835.4	1325.8	887.4	860.0	829.0	825.5	801.7	737.1	684.1	684.1
57.5°	5130.7	2930.8	1255.1	827.3	800.8	782.2	806.1	794.6	713.3	645.2	641.7
60°	5350.8	2996.2	1152.5	766.3	747.7	738.0	774.3	770.7	679.7	603.7	601.0
62.5°	5525.8	3021.9	1039.4	708.0	703.5	685.9	730.1	730.1	637.3	563.0	560.4
65°	5662.8	2997.1	924.5	650.5	659.4	632.8	676.1	670.8	592.2	526.8	523.2
67.5°	5783.9	2915.8	797.2	593.9	614.3	580.7	619.6	607.2	542.7	490.5	487.0
70°	5837.8	2726.7	652.3	537.4	562.1	529.4	563.0	540.0	487.0	451.6	444.6
72.5°	5404.7	2266.2	513.5	478.2	499.4	472.9	502.0	475.5	426.9	411.0	397.7
75°	4471.4	1700.5	395.1	413.6	429.6	409.2	428.7	409.2	365.0	376.5	343.8
77.5°	3247.3	1148.1	302.3	345.6	352.7	342.0	358.8	336.7	297.0	294.3	281.1
80°	1614.8	672.6	236.9	273.1	270.5	263.4	282.8	272.2	238.6	252.8	250.1
82.5°	467.6	288.1	172.4	191.8	186.5	188.3	202.4	207.7	311.1	308.5	315.5
85°	146.7	113.1	103.4	106.9	101.6	104.3	119.3	236.9	219.2	128.2	138.8
87.5°	38.0	38.9	25.6	27.4	28.3	33.6	38.0	144.1	68.9	45.1	47.7
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)