

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: P947366

Luminaire Tested: **GALN-SB2D-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-727-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19129 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - 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

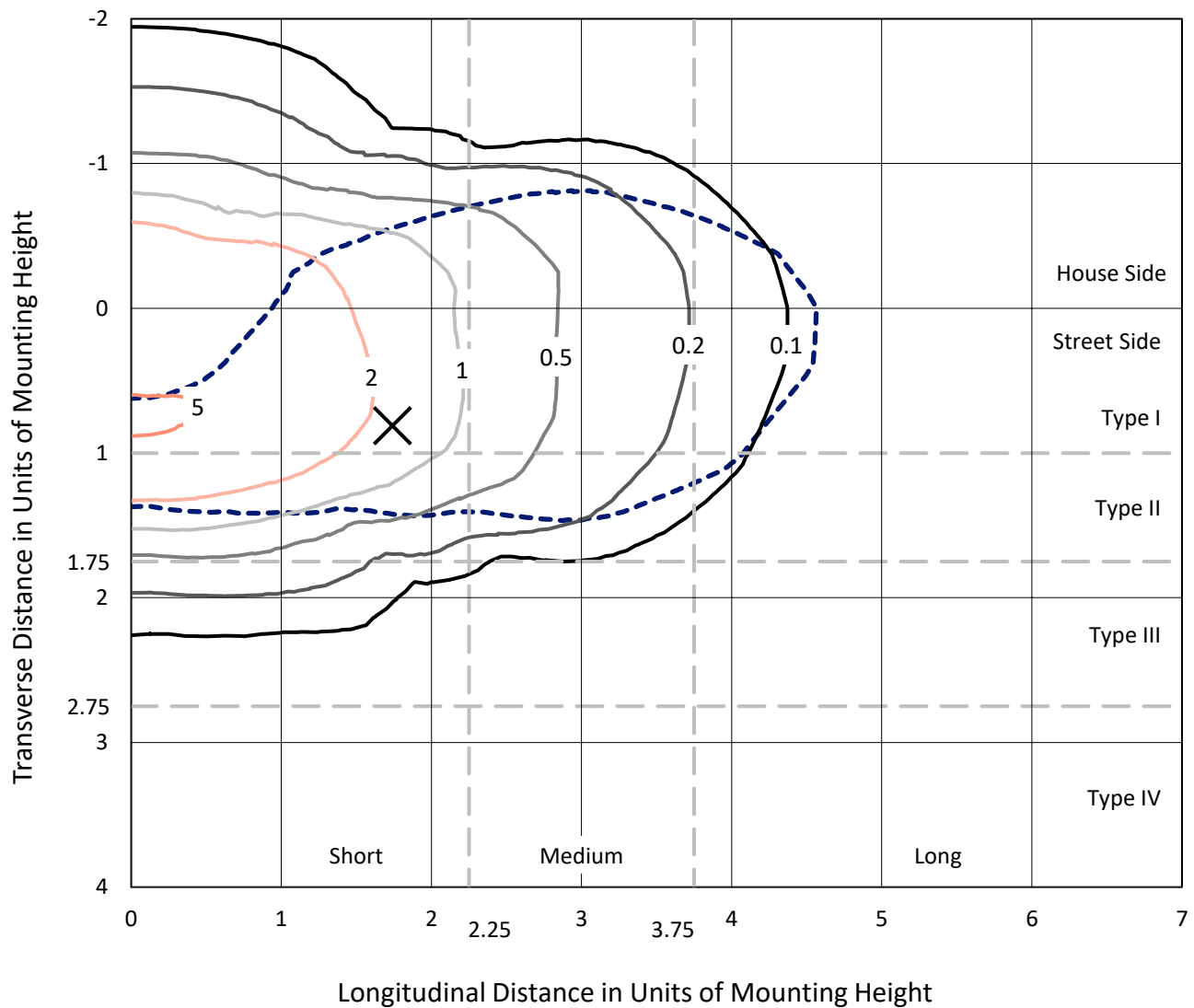


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

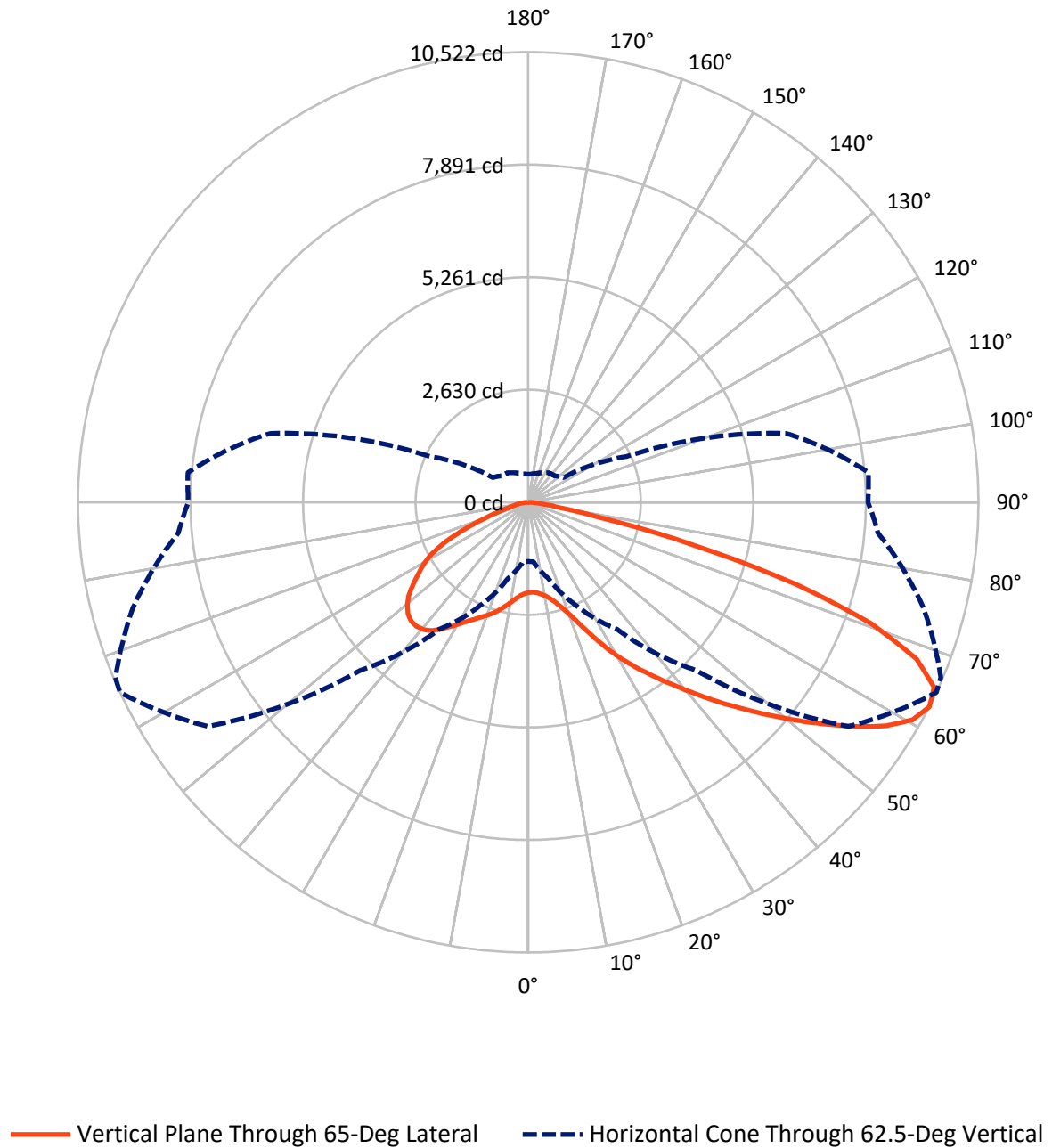


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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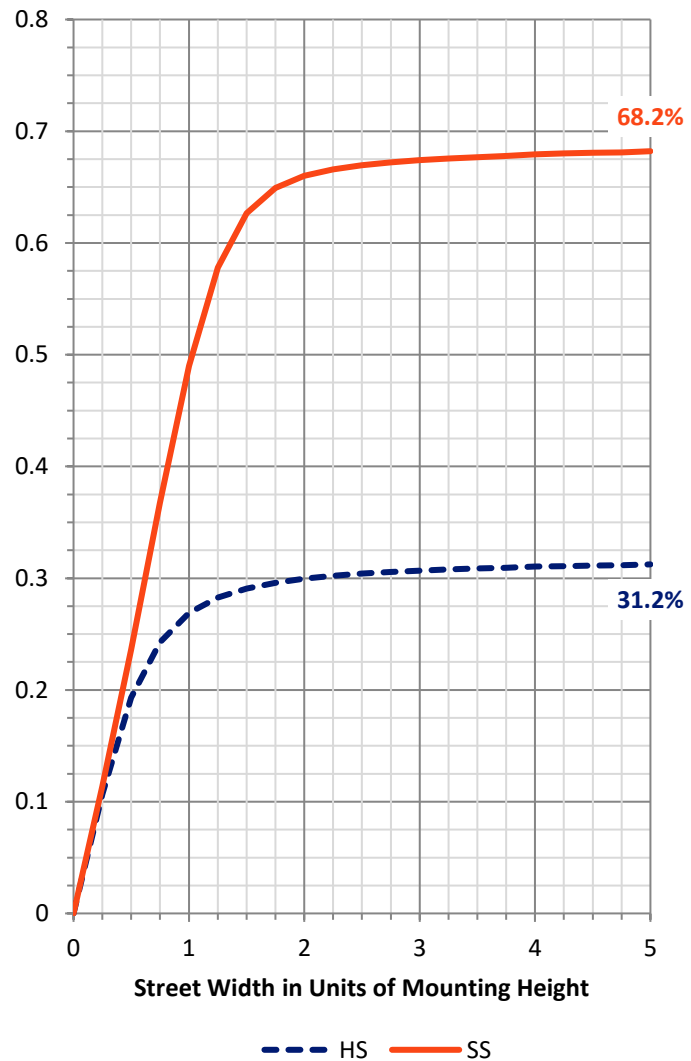
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6036.3	0.0	6036.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	13092.7	0.0	13092.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	19129.0	0.0	19129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.2	1.1
10°-20°	712.7	3.7
20°-30°	1445.0	7.6
30°-40°	2500.6	13.1
40°-50°	3784.1	19.8
50°-60°	4436.6	23.2
60°-70°	3719.6	19.4
70°-80°	2053.5	10.7
80°-90°	266.7	1.4
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°	19129.0	100.0
0°-180°	19129.0	100.0

Coefficient of Utilization



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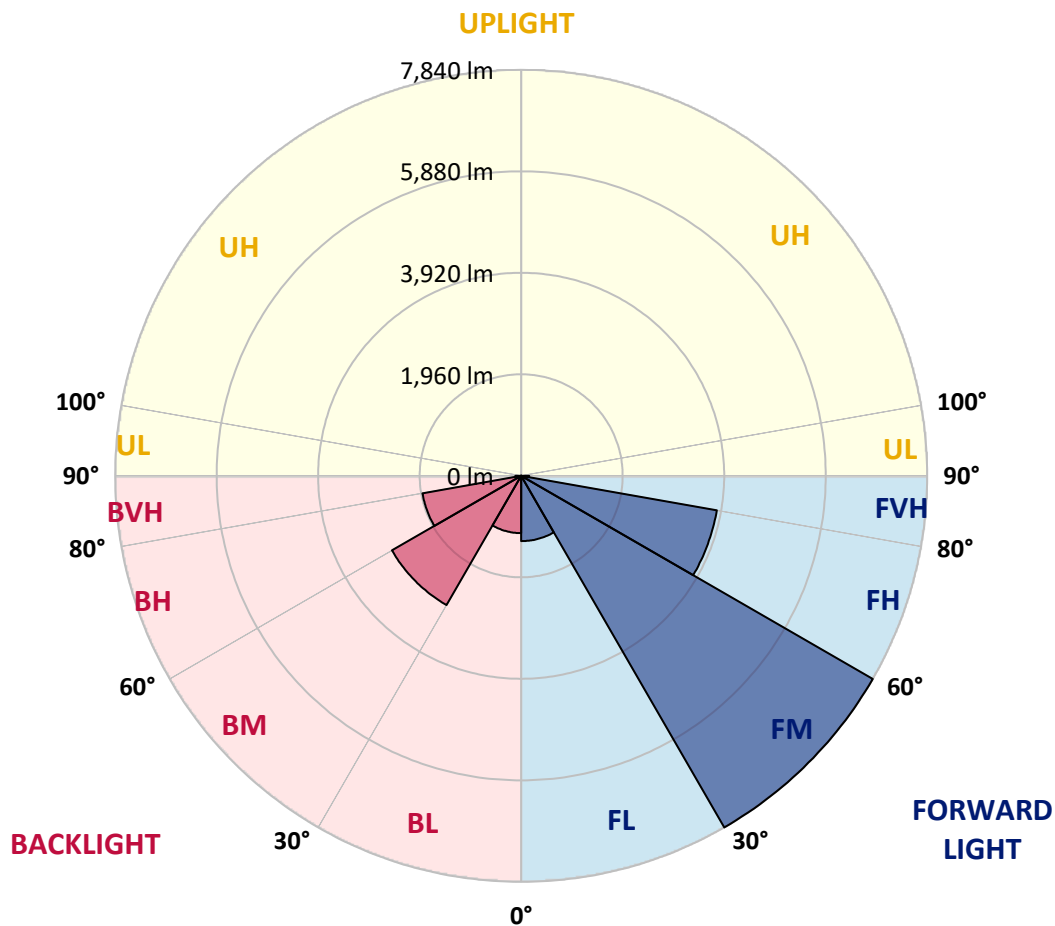
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1260.9	6.6			
FM	(30°-60°)	7839.7	41.0			
FH	(60°-80°)	3836.7	20.1			G2/5000
FVH	(80°-90°)	155.5	0.8			G2/225
BL	(0°-30°)	1107.0	5.8	B3/2500		
BM	(30°-60°)	2881.6	15.1	B3/5000		
BH	(60°-80°)	1936.4	10.1	B3/2500		G3/2500
BVH	(80°-90°)	111.3	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9
2.5°	2094.0	2088.1	2093.0	2093.0	2095.0	2094.0	2101.0	2103.0	2105.9	2111.9	2111.9
5°	2073.2	2072.2	2081.1	2089.1	2097.0	2104.0	2112.9	2125.8	2127.8	2134.7	2143.7
7.5°	2066.3	2060.3	2074.2	2084.1	2103.0	2119.8	2143.7	2165.5	2174.4	2177.4	2194.3
10°	2119.8	2109.9	2122.8	2128.8	2144.7	2161.5	2189.3	2224.0	2234.0	2245.9	2264.7
12.5°	2211.1	2200.2	2219.1	2228.0	2242.9	2257.8	2276.6	2310.4	2315.4	2337.2	2355.0
15°	2336.2	2323.3	2335.2	2346.1	2370.9	2384.8	2403.7	2436.4	2436.4	2453.3	2466.2
17.5°	2505.9	2489.0	2498.0	2501.9	2517.8	2538.6	2570.4	2599.2	2614.1	2608.1	2590.3
20°	2759.0	2738.1	2738.1	2718.3	2712.3	2729.2	2770.9	2810.6	2826.5	2795.7	2752.0
22.5°	3139.1	3109.3	3092.4	3024.9	2998.1	3000.1	3041.8	3090.4	3103.3	3048.8	2950.5
25°	3622.4	3575.7	3552.9	3453.7	3393.1	3340.5	3373.3	3435.8	3453.7	3386.2	3227.4
27.5°	4105.7	4108.7	4086.8	3967.8	3867.5	3771.3	3754.4	3819.9	3838.7	3762.3	3565.8
30°	4783.5	4713.1	4671.4	4528.5	4385.6	4250.6	4181.1	4207.9	4212.9	4121.6	3893.3
32.5°	5368.1	5350.2	5260.9	5135.9	4952.3	4740.9	4624.7	4582.1	4574.1	4444.1	4173.2
35°	6034.0	6024.1	5929.8	5780.9	5582.4	5288.7	5079.3	4957.2	4947.3	4764.7	4450.1
37.5°	6710.8	6710.8	6618.6	6455.8	6250.4	5883.2	5564.6	5371.1	5339.3	5101.1	4731.9
40°	7250.7	7218.0	7234.9	7166.4	6931.2	6541.1	6103.5	5822.6	5779.9	5494.1	5031.6
42.5°	7557.4	7546.5	7647.7	7724.1	7627.9	7316.2	6697.0	6311.9	6252.3	5926.8	5377.0
45°	7625.9	7614.0	7794.6	8074.5	8209.4	8081.4	7342.0	6827.0	6754.5	6379.4	5747.2
47.5°	7468.1	7444.3	7709.2	8150.9	8583.6	8808.9	8040.7	7385.7	7280.5	6820.0	6127.3
50°	6993.7	6970.9	7371.8	7958.3	8709.6	9303.1	8798.9	7978.2	7817.4	7292.4	6511.4
52.5°	5962.6	5973.5	6601.7	7407.5	8543.9	9610.7	9452.0	8602.4	8408.9	7775.7	6871.6
55°	4644.6	4668.4	5440.5	6327.8	7880.9	9564.1	9897.6	9245.5	9053.0	8230.3	7243.8
57.5°	3325.7	3430.8	4154.3	5032.6	6607.6	8824.7	9994.8	9856.9	9670.3	8726.5	7608.0
60°	2155.6	2174.4	2918.8	3804.0	5031.6	7510.8	9797.3	10320.3	10174.4	9232.6	7912.7
62.5°	1381.5	1394.4	1847.9	2660.7	3621.4	5556.6	9132.4	10521.8	10477.1	9567.1	8205.5
65°	1015.3	1005.3	1241.5	1758.6	2439.4	3426.9	7841.2	10424.5	10512.9	9776.5	8447.6
67.5°	847.5	833.6	949.8	1217.7	1797.3	1946.2	5801.8	9792.4	10115.9	9752.7	8625.3
70°	772.1	760.2	830.7	904.1	1402.3	1303.1	2924.7	8513.1	9011.3	9481.7	8596.5
72.5°	654.0	633.2	729.4	802.9	1090.7	999.4	1208.8	6539.2	7146.5	8613.3	8191.6
75°	507.1	493.2	575.6	706.6	819.8	780.1	764.2	3970.7	4633.7	6661.2	7166.4
77.5°	401.9	383.1	458.5	550.8	737.4	588.5	556.8	1710.0	2367.0	4252.6	5362.1
80°	302.7	285.8	348.3	435.7	566.7	443.6	360.3	697.7	892.2	2154.6	2696.4
82.5°	215.4	200.5	243.1	319.6	381.1	398.0	221.3	391.0	439.6	830.7	602.4
85°	137.9	129.0	162.8	200.5	242.2	256.0	135.0	204.4	224.3	342.4	251.1
87.5°	75.4	61.5	87.3	93.3	112.1	102.2	64.5	74.4	80.4	124.1	106.2
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°	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9
2.5°	2115.9	2118.8	2128.8	2131.8	2138.7	2147.6	2153.6	2159.5	2159.5	2165.5	2165.5
5°	2144.7	2151.6	2172.4	2183.4	2201.2	2219.1	2230.0	2242.9	2250.8	2254.8	2256.8
7.5°	2200.2	2211.1	2240.9	2259.8	2290.5	2315.4	2332.2	2350.1	2354.1	2365.0	2361.0
10°	2275.7	2288.6	2322.3	2358.0	2394.7	2425.5	2441.4	2454.3	2459.3	2461.2	2456.3
12.5°	2362.0	2380.9	2424.5	2468.2	2506.9	2533.7	2537.7	2534.7	2520.8	2508.9	2508.9
15°	2468.2	2485.1	2533.7	2581.3	2619.0	2624.0	2599.2	2583.3	2566.4	2563.5	2563.5
17.5°	2595.2	2604.2	2648.8	2695.5	2698.4	2681.6	2644.8	2630.0	2614.1	2603.2	2604.2
20°	2743.1	2740.1	2771.9	2791.7	2770.9	2719.3	2663.7	2638.9	2623.0	2610.1	2611.1
22.5°	2919.7	2896.9	2892.9	2888.0	2832.4	2724.2	2648.8	2617.1	2592.2	2574.4	2580.3
25°	3176.8	3089.5	3028.9	2995.2	2870.1	2697.4	2601.2	2530.7	2484.1	2453.3	2465.2
27.5°	3498.3	3351.5	3198.6	3116.2	2870.1	2642.9	2486.1	2371.9	2295.5	2263.7	2279.6
30°	3805.0	3651.2	3425.9	3262.1	2863.2	2553.5	2300.5	2141.7	2052.4	2020.6	2039.5
32.5°	4067.0	3899.3	3667.0	3421.9	2846.3	2408.6	2070.2	1894.6	1808.2	1770.5	1789.4
35°	4310.1	4131.5	3909.2	3597.6	2801.6	2196.3	1817.1	1683.2	1586.9	1526.4	1546.2
37.5°	4559.2	4346.9	4138.5	3756.4	2721.3	1948.2	1622.6	1508.5	1395.4	1314.0	1335.8
40°	4830.2	4576.1	4383.6	3850.6	2589.3	1712.0	1471.8	1367.6	1247.5	1161.1	1178.0
42.5°	5146.8	4851.0	4656.5	3899.3	2408.6	1544.2	1373.5	1271.3	1158.2	1087.7	1101.6
45°	5477.3	5153.7	4905.6	3898.3	2207.2	1465.8	1341.8	1240.5	1115.5	1042.1	1054.0
47.5°	5823.6	5470.3	5121.0	3834.8	2032.5	1476.7	1323.9	1174.1	1036.1	964.6	974.6
50°	6171.0	5816.7	5329.4	3715.7	1958.1	1452.9	1257.4	1080.8	918.0	853.5	857.5
52.5°	6515.3	6184.9	5509.0	3546.0	1882.7	1364.6	1172.1	959.7	869.4	824.7	824.7
55°	6861.7	6549.1	5704.5	3298.9	1694.1	1261.4	1029.2	914.0	830.7	790.0	786.0
57.5°	7209.1	6969.9	5890.1	3051.7	1456.9	1134.4	950.8	858.5	792.0	757.2	751.3
60°	7570.3	7451.2	6081.6	2824.5	1222.7	971.6	893.2	813.8	746.3	707.6	704.6
62.5°	7942.5	7981.2	6231.5	2531.7	1007.3	872.4	841.6	760.2	694.7	658.0	657.0
65°	8317.6	8492.3	6329.8	2125.8	816.8	778.1	786.0	701.7	635.2	603.4	602.4
67.5°	8600.4	8860.5	6302.0	1608.7	669.9	688.8	716.5	640.1	577.6	552.8	553.8
70°	8632.2	8816.8	6028.1	1101.6	560.7	601.4	639.1	579.6	515.1	497.2	498.2
72.5°	8209.4	8221.3	5264.9	719.5	474.4	528.0	557.7	518.1	455.5	437.7	436.7
75°	7100.9	6799.2	3865.5	474.4	397.0	453.5	481.3	453.5	393.0	397.0	383.1
77.5°	5380.0	4815.3	2347.1	337.4	331.5	381.1	418.8	399.0	347.4	390.0	343.4
80°	2771.9	2605.1	1047.0	252.1	262.0	304.7	344.4	318.6	274.9	262.0	239.2
82.5°	635.2	738.4	412.9	180.6	189.6	219.3	263.0	239.2	197.5	166.7	164.7
85°	222.3	243.1	182.6	113.1	111.2	137.0	178.6	159.8	134.0	107.2	113.1
87.5°	70.5	92.3	68.5	45.7	47.6	61.5	82.4	75.4	62.5	40.7	42.7
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)