

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: P947006

Luminaire Tested: **GALN-SB2C-727-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11762 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 100.9
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

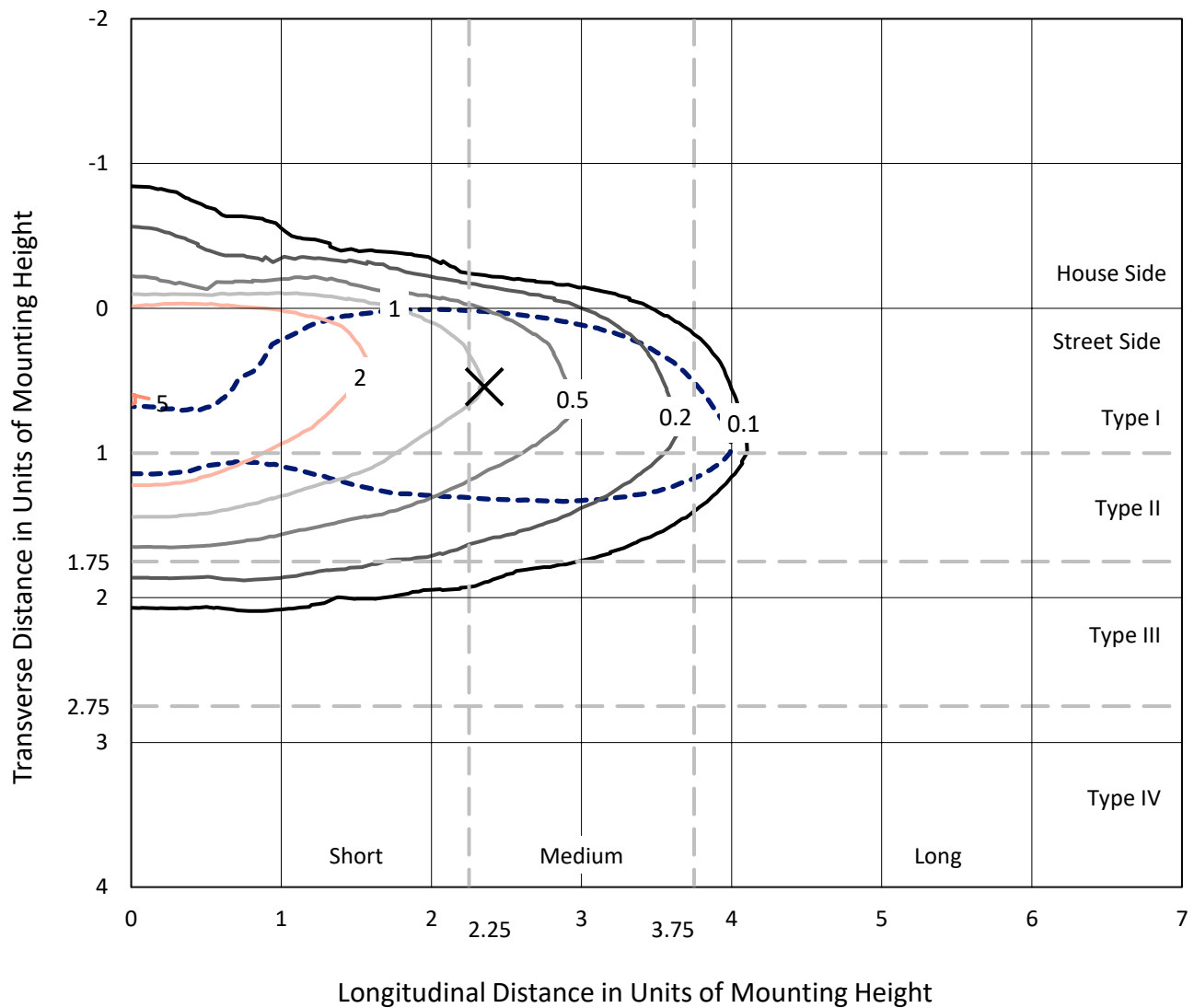


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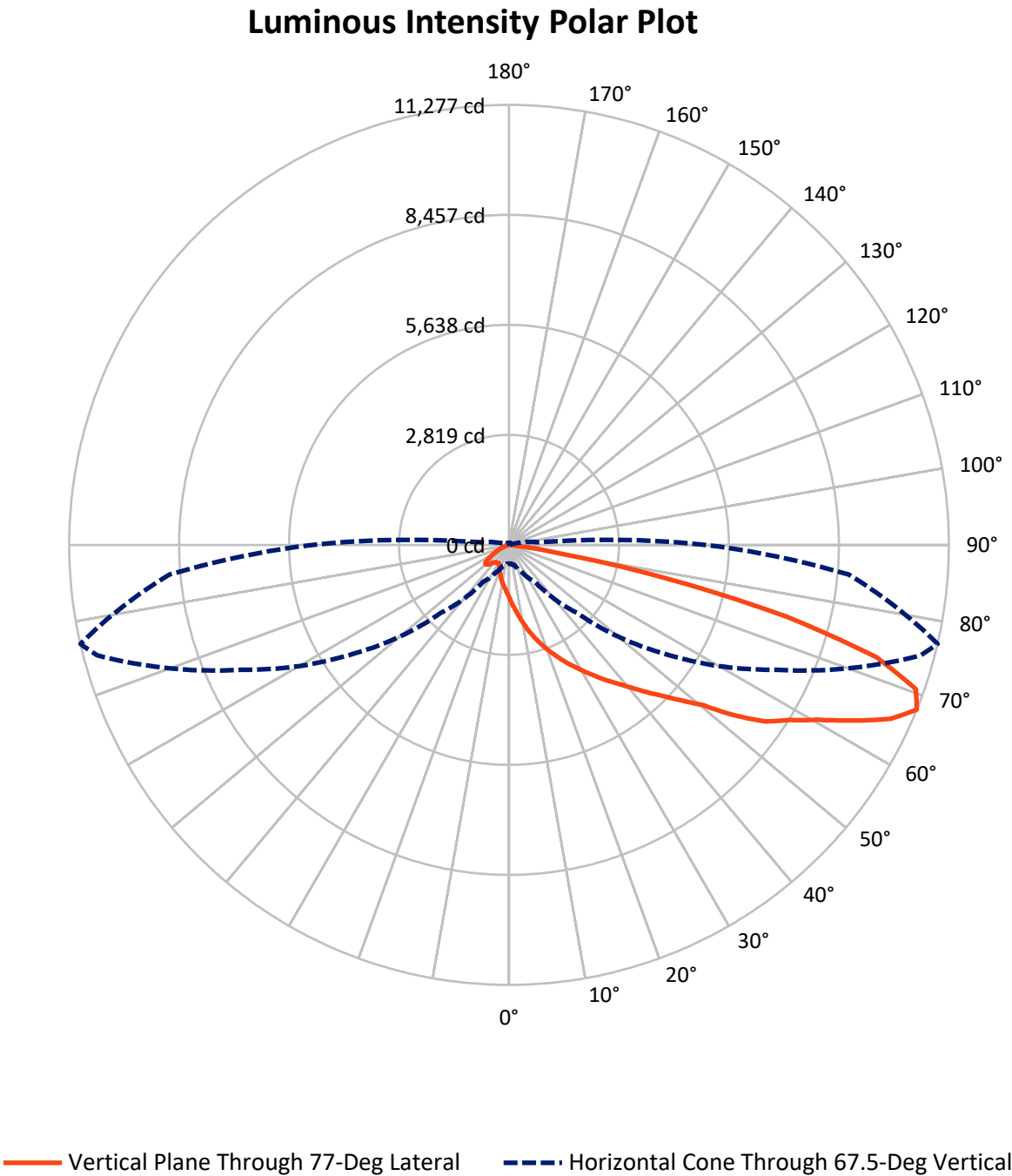
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type II - Medium - N/A

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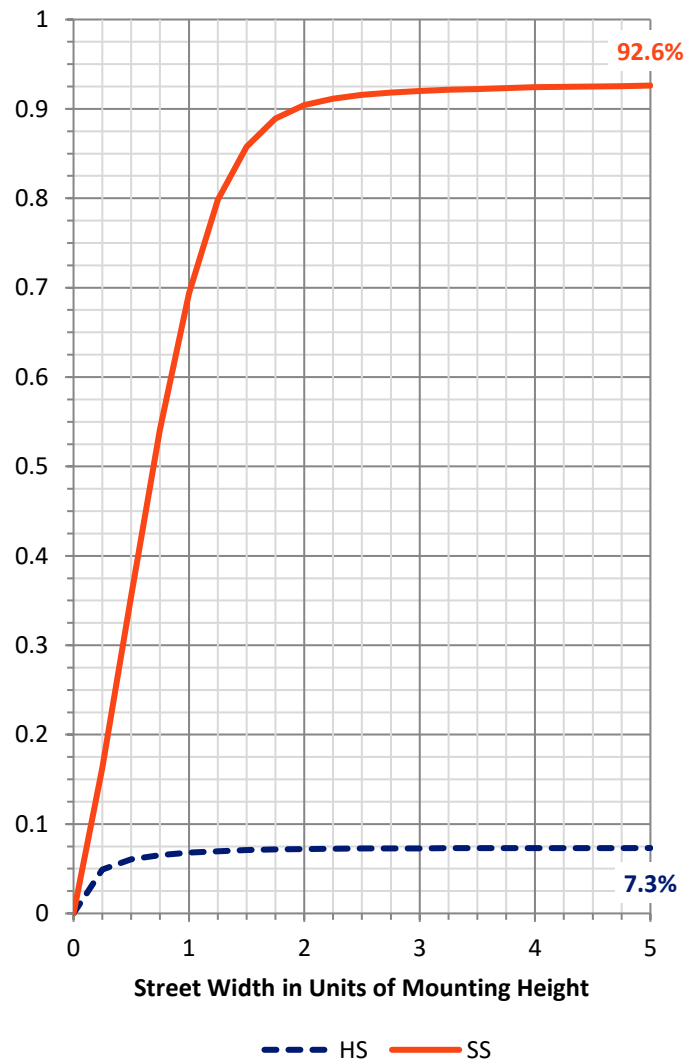
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	865.3	0.0	865.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	10896.7	0.0	10896.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	11762.0	0.0	11762.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	1.2
10°-20°	484.8	4.1
20°-30°	935.5	8.0
30°-40°	1624.1	13.8
40°-50°	2358.1	20.0
50°-60°	2708.0	23.0
60°-70°	2351.0	20.0
70°-80°	1107.4	9.4
80°-90°	54.8	0.5
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°	11762.0	100.0
0°-180°	11762.0	100.0

Coefficient of Utilization



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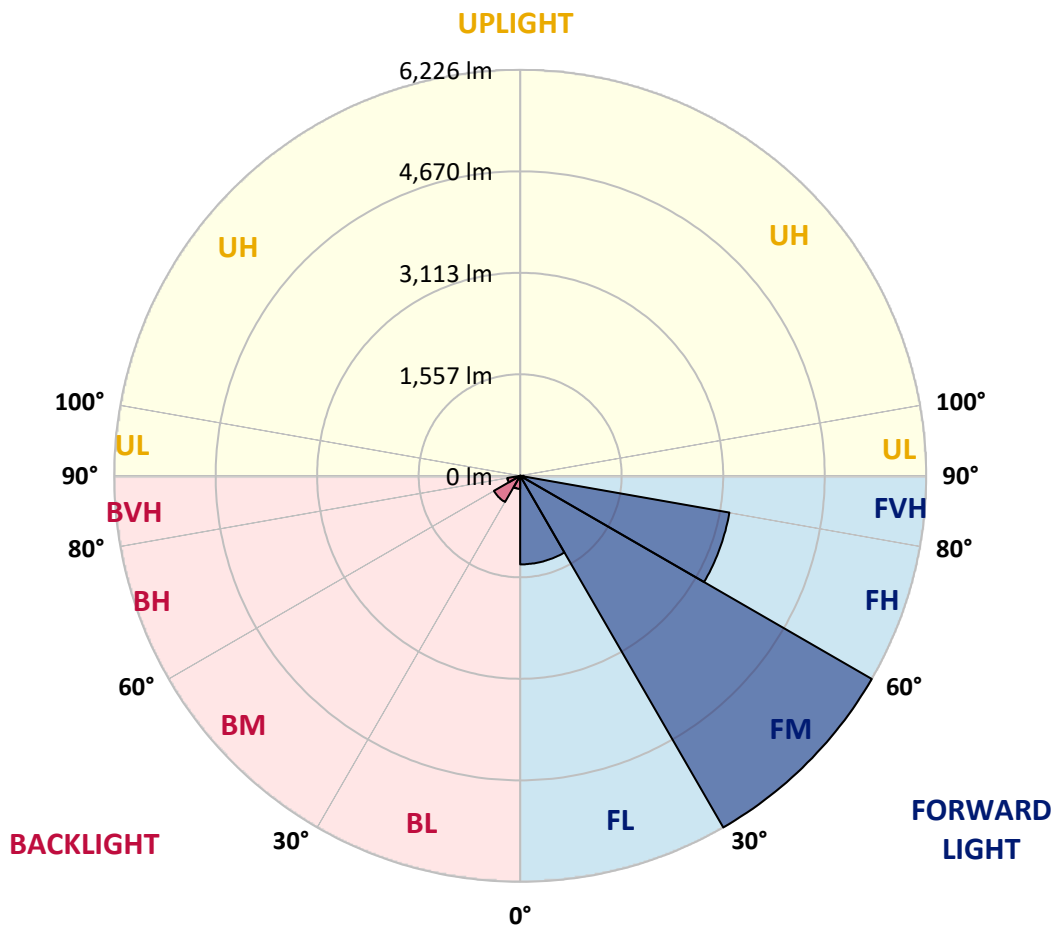
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1358.4	11.5			
FM	(30°-60°)	6226.5	52.9			
FH	(60°-80°)	3258.0	27.7			G2/5000
FVH	(80°-90°)	53.8	0.5			G1/100
BL	(0°-30°)	200.3	1.7	B1/500		
BM	(30°-60°)	463.7	3.9	B1/1000		
BH	(60°-80°)	200.3	1.7	B1/500		G1/500
BVH	(80°-90°)	1.0	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3
2.5°	1877.8	1889.5	1872.7	1840.6	1792.4	1761.0	1684.3	1612.0	1531.6	1506.1	1425.7
5°	2289.0	2299.3	2280.3	2245.2	2180.9	2119.6	2018.8	1867.6	1710.6	1660.2	1517.7
7.5°	2593.6	2599.5	2592.1	2560.0	2498.7	2429.3	2316.8	2137.8	1904.9	1849.3	1631.0
10°	2812.7	2831.7	2829.5	2817.1	2776.2	2720.0	2600.2	2396.4	2122.5	2050.9	1758.8
12.5°	2958.1	2979.3	2991.7	3019.4	3017.2	2981.4	2876.3	2660.8	2339.4	2255.4	1902.7
15°	3000.4	3023.1	3070.6	3134.8	3191.8	3210.1	3136.3	2920.1	2578.3	2470.9	2050.2
17.5°	2976.3	3011.4	3068.4	3169.9	3294.8	3377.3	3369.3	3170.6	2795.2	2672.5	2194.8
20°	3029.7	3063.2	3107.8	3193.3	3338.6	3488.3	3548.2	3410.2	3010.7	2882.1	2346.7
22.5°	3324.7	3318.9	3323.3	3337.1	3424.1	3572.3	3695.8	3627.8	3223.9	3092.5	2507.4
25°	3792.2	3765.9	3721.3	3646.1	3624.2	3695.8	3824.3	3820.7	3448.9	3307.9	2671.8
27.5°	4328.3	4323.9	4219.5	4038.3	3936.1	3908.3	3969.7	4008.4	3671.7	3521.2	2836.8
30°	4841.7	4853.4	4712.5	4510.9	4323.2	4214.3	4158.8	4186.6	3898.1	3751.3	3007.0
32.5°	5288.7	5301.2	5147.8	4911.9	4679.6	4548.1	4431.3	4362.6	4145.0	3985.0	3194.0
35°	5666.4	5678.8	5502.7	5242.0	4994.4	4875.3	4743.1	4555.4	4393.3	4244.3	3402.1
37.5°	6003.8	6000.1	5764.2	5501.3	5258.1	5163.8	5094.5	4792.8	4648.9	4505.0	3633.0
40°	6203.2	6218.5	6016.9	5727.0	5491.1	5422.4	5418.0	5087.2	4944.0	4804.5	3885.7
42.5°	6261.6	6288.6	6142.6	5904.5	5690.5	5616.0	5730.6	5405.6	5287.3	5151.4	4171.2
45°	6156.4	6182.7	6116.3	5951.2	5826.3	5778.1	5999.4	5735.7	5653.9	5519.5	4493.4
47.5°	5849.7	5882.5	5898.6	5863.6	5862.1	5911.0	6240.4	6083.4	6089.2	5951.9	4866.6
50°	5255.9	5311.4	5458.9	5583.1	5775.2	6016.2	6474.9	6460.3	6580.1	6461.7	5353.0
52.5°	4176.4	4255.2	4763.6	5103.2	5534.9	5996.5	6732.7	7065.0	7441.2	7268.1	6038.9
55°	3356.1	3356.1	3769.5	4405.0	5066.0	5866.5	6845.2	7458.0	8027.7	7986.8	6521.6
57.5°	2736.0	2768.9	3032.6	3594.2	4387.4	5556.8	6914.6	7704.9	8500.3	8470.3	6993.5
60°	1688.7	1759.5	2257.6	2812.0	3615.4	5005.4	6870.8	7954.7	9073.6	9097.7	7561.7
62.5°	951.0	977.3	1199.3	2023.2	2811.3	4264.0	6535.5	8094.2	9806.9	9909.2	8147.5
65°	656.6	669.8	755.2	1259.2	1948.7	3394.8	5880.4	8007.2	10541.7	10748.4	8644.1
67.5°	476.9	483.5	536.8	769.1	1156.2	2461.4	4853.4	7569.0	10931.0	11276.5	8739.1
70°	366.7	371.0	409.7	505.4	682.9	1519.2	3524.9	6697.7	10649.1	11061.7	8252.7
72.5°	298.0	302.4	332.3	374.0	452.8	898.4	2136.4	5439.2	9404.5	9850.0	7025.6
75°	251.3	257.1	284.1	311.1	355.0	577.0	1002.1	3787.8	7072.4	7364.5	4885.6
77.5°	139.5	128.5	230.8	257.8	299.5	365.2	468.9	2229.1	3960.9	4042.0	2167.8
80°	86.9	89.8	183.3	207.4	230.1	184.1	214.7	858.2	1373.1	1304.5	420.0
82.5°	5.1	11.7	141.0	149.7	157.8	78.9	81.1	291.4	330.9	303.8	74.5
85°	0.0	0.0	64.3	51.9	54.8	22.6	23.4	67.9	44.6	48.2	14.6
87.5°	0.0	0.0	0.0	1.5	0.0	2.2	4.4	5.8	2.2	2.9	5.1
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°	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3
2.5°	1374.6	1323.5	1219.7	1118.2	1035.7	959.0	904.2	852.4	826.1	824.6	823.1
5°	1416.2	1308.9	1101.4	918.1	770.6	652.2	575.5	520.8	493.0	483.5	482.1
7.5°	1474.7	1313.2	997.7	742.8	569.0	467.4	423.6	406.1	400.3	393.7	392.2
10°	1548.4	1323.5	905.0	598.2	448.5	397.3	379.8	372.5	368.1	363.7	362.3
12.5°	1631.0	1333.0	812.9	496.7	394.4	368.1	355.7	346.9	341.1	336.0	334.5
15°	1711.3	1338.8	717.2	425.8	366.7	345.5	332.3	322.8	314.8	309.0	308.2
17.5°	1790.9	1346.8	627.4	383.5	344.0	322.8	309.7	298.0	291.4	284.9	284.1
20°	1879.3	1345.4	542.7	353.5	321.4	300.2	286.3	275.4	268.8	261.5	260.7
22.5°	1961.1	1338.1	468.2	327.9	298.0	277.5	262.2	251.3	244.7	238.8	238.1
25°	2055.3	1332.2	406.1	304.6	276.1	255.6	238.8	228.6	221.3	216.2	215.5
27.5°	2145.9	1323.5	360.8	283.4	254.9	235.2	219.1	207.4	200.9	197.2	197.2
30°	2235.0	1321.3	344.0	262.9	235.9	216.2	200.1	189.2	184.1	182.6	181.9
32.5°	2342.4	1327.1	351.3	255.6	218.4	198.7	183.3	175.3	170.2	170.2	170.2
35°	2457.0	1325.7	362.3	262.2	206.7	181.1	169.5	164.3	159.2	159.2	159.2
37.5°	2600.9	1327.8	371.0	273.2	202.3	166.5	160.0	153.4	150.5	150.5	150.5
40°	2815.6	1400.2	366.7	282.7	200.9	156.3	143.2	141.0	138.8	138.8	138.8
42.5°	3078.6	1557.2	372.5	283.4	200.1	149.0	131.5	135.9	130.7	130.0	129.3
45°	3366.4	1728.8	409.7	268.1	199.4	145.3	125.6	130.7	122.7	122.7	122.7
47.5°	3651.9	1899.0	447.7	246.1	197.2	144.6	120.5	117.6	115.4	116.1	116.1
50°	4045.6	2037.8	462.3	216.2	192.1	143.2	111.0	111.7	110.3	111.7	111.7
52.5°	4474.4	2067.0	444.8	182.6	177.5	138.8	104.4	107.4	106.6	108.1	108.1
55°	4741.7	2035.6	367.4	151.9	154.8	121.2	97.9	103.7	103.7	103.7	103.7
57.5°	5017.8	1901.9	260.7	123.4	128.5	99.3	92.0	100.1	99.3	98.6	98.6
60°	5216.4	1685.7	171.6	101.5	102.3	81.8	85.5	94.2	93.5	89.8	89.8
62.5°	5364.7	1446.9	110.3	86.2	78.2	73.8	78.2	85.5	82.5	74.5	73.0
65°	5347.9	1116.0	84.7	73.8	64.3	64.3	67.9	74.5	65.7	52.6	51.1
67.5°	5036.0	755.2	70.1	62.1	54.0	53.3	56.2	62.1	56.2	44.6	43.1
70°	4478.7	493.7	56.2	48.2	43.1	39.4	45.3	53.3	47.5	35.8	34.3
72.5°	3635.1	300.9	42.4	35.1	31.4	25.6	35.8	43.8	38.0	26.3	24.8
75°	2351.9	153.4	29.2	22.6	16.8	15.3	26.3	32.9	26.3	16.1	13.9
77.5°	899.8	64.3	16.1	10.2	8.8	7.3	14.6	19.7	11.0	3.7	2.9
80°	173.1	27.0	8.0	5.1	4.4	2.9	2.2	1.5	0.0	0.0	0.0
82.5°	29.9	8.8	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	0.0	0.0	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	0.0

(END OF REPORT)