

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: STREETWORKS

Report Number: P969973

Luminaire Tested: **NVN-SB6A-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6A-827-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18675.5 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

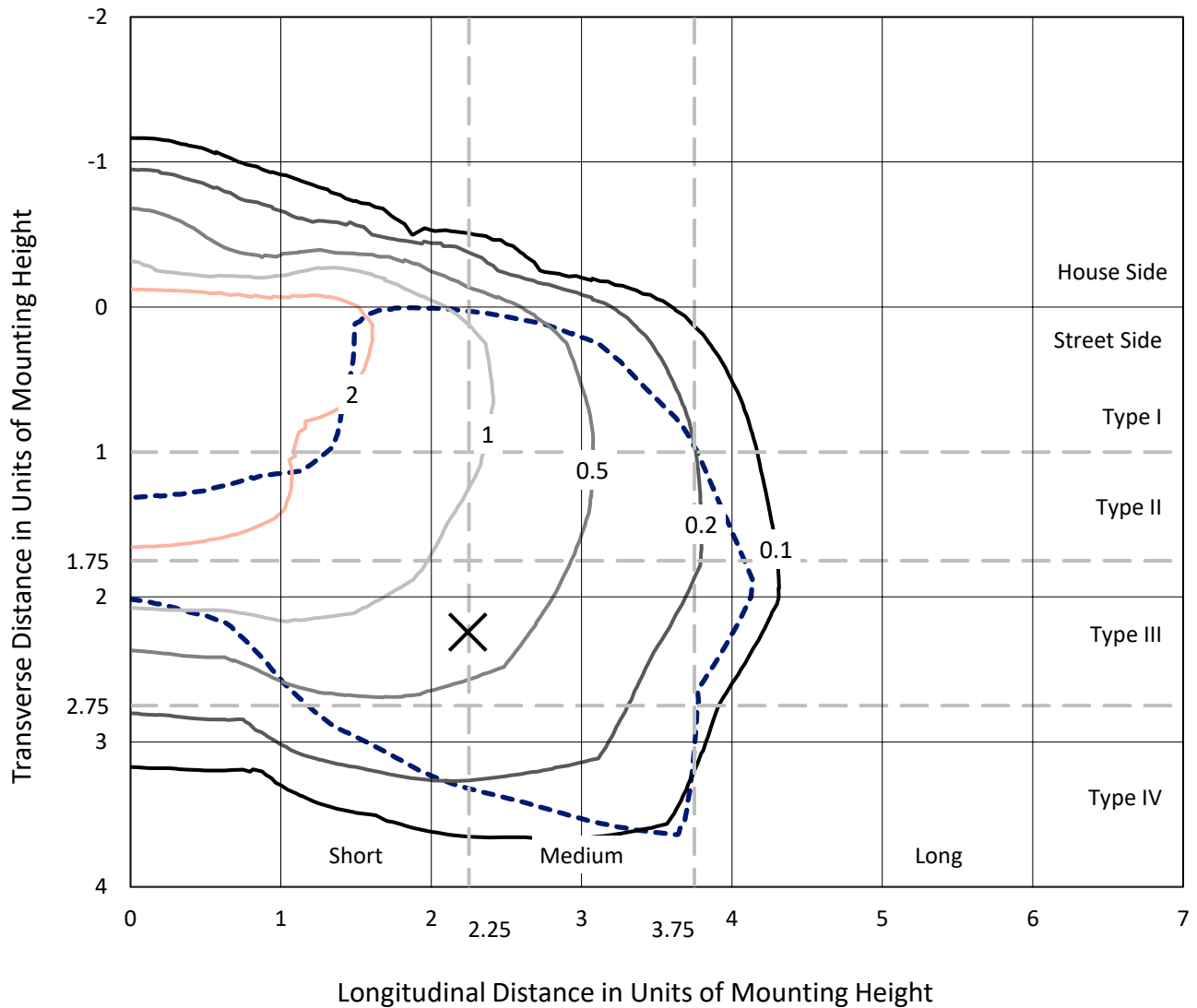
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

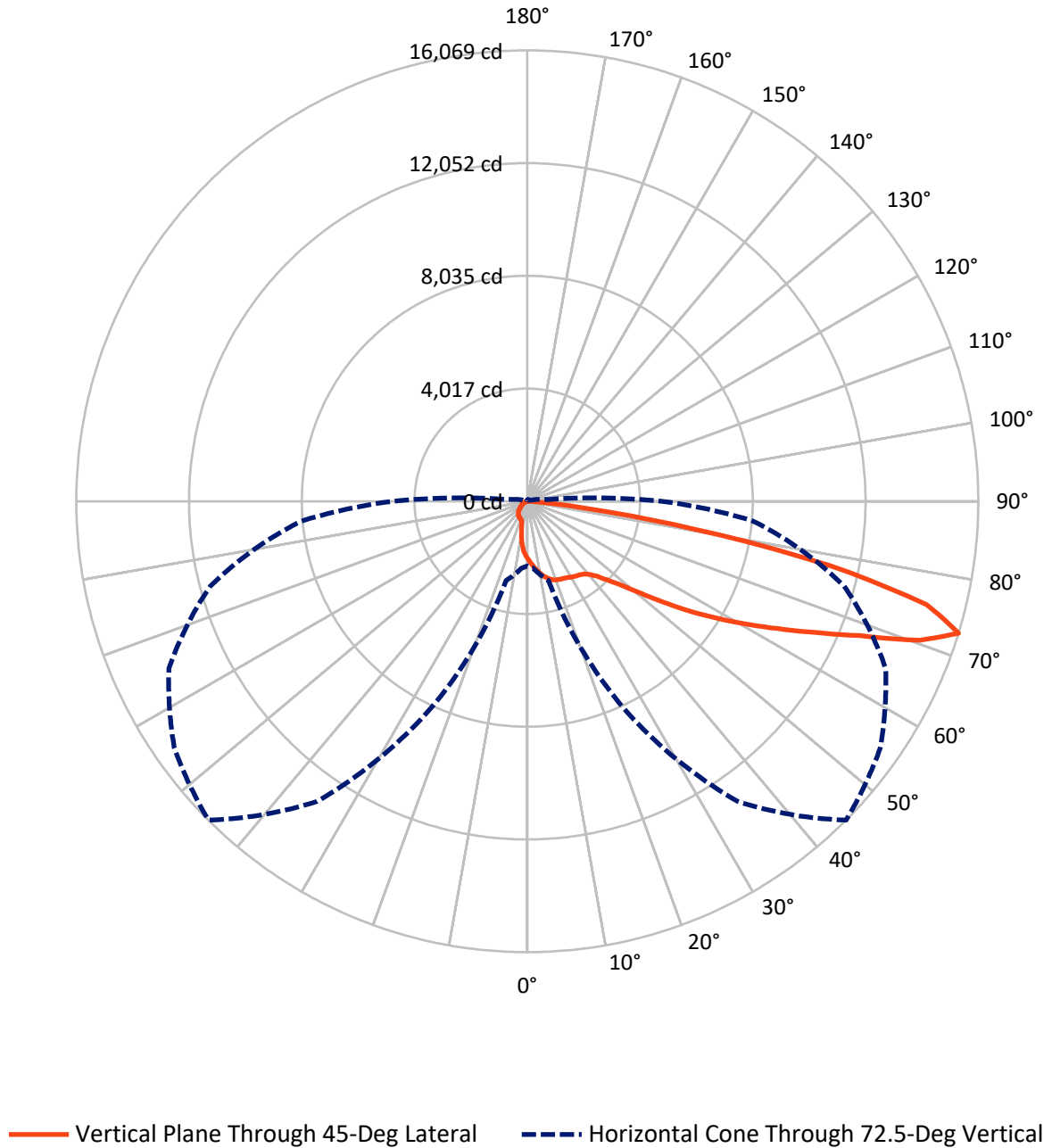
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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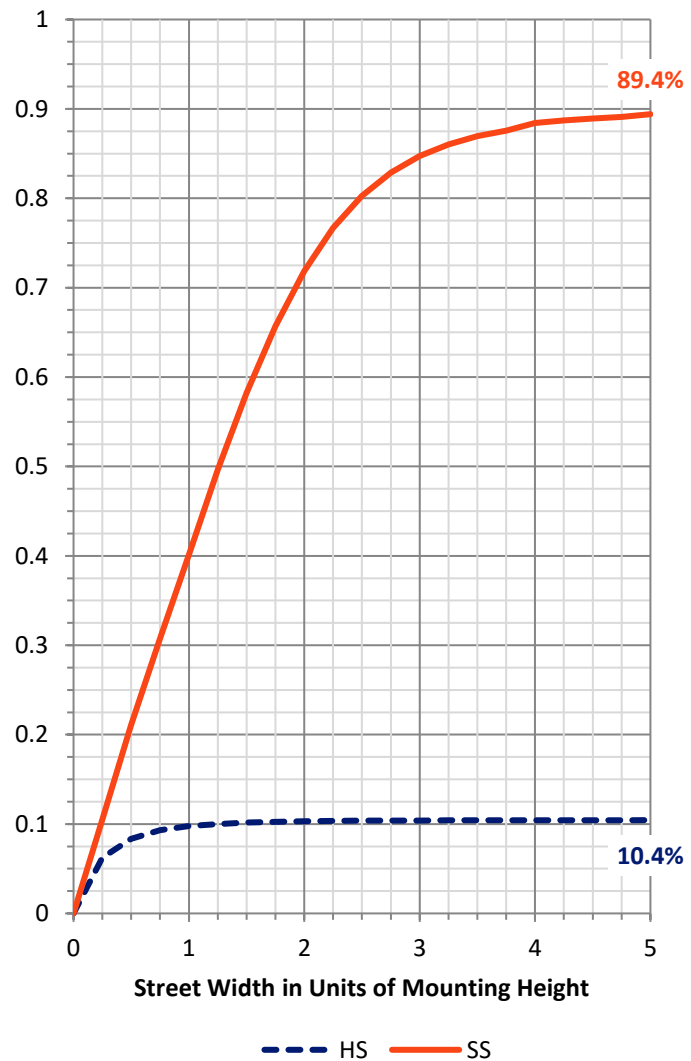
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1962.3	0.0	1962.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	16713.2	0.0	16713.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	18675.5	0.0	18675.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.8	1.0
10°-20°	563.4	3.0
20°-30°	925.2	5.0
30°-40°	1312.1	7.0
40°-50°	2168.8	11.6
50°-60°	3895.9	20.9
60°-70°	5409.7	29.0
70°-80°	3924.0	21.0
80°-90°	283.7	1.5
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°	18675.5	100.0
0°-180°	18675.5	100.0

Coefficient of Utilization



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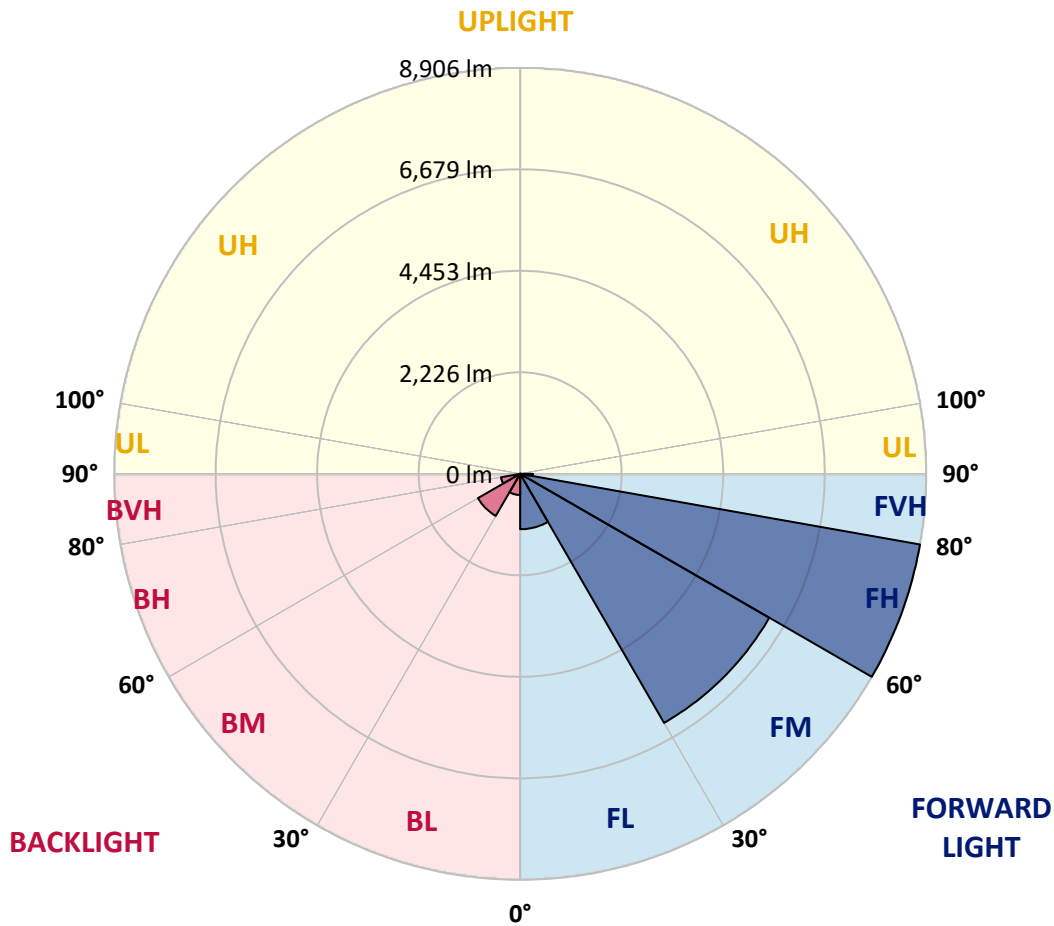
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1216.5	6.5			
FM (30°-60°)	6309.6	33.8			
FH (60°-80°)	8905.8	47.7			G4/12000
FVH (80°-90°)	281.3	1.5			G3/500
BL (0°-30°)	464.8	2.5	B1/500		
BM (30°-60°)	1067.2	5.7	B2/2500		
BH (60°-80°)	427.9	2.3	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9
2.5°	2234.6	2238.4	2235.8	2220.6	2195.0	2181.1	2173.4	2147.9	2131.4	2102.1	2071.4
5°	2439.8	2455.1	2446.2	2415.6	2367.1	2332.8	2322.5	2270.3	2223.1	2168.3	2104.5
7.5°	2657.8	2665.4	2648.9	2609.3	2544.4	2485.7	2476.8	2404.1	2328.9	2244.8	2158.1
10°	2846.4	2855.4	2829.9	2772.5	2698.6	2625.9	2613.2	2532.9	2443.7	2340.4	2229.5
12.5°	3004.6	3013.5	2980.3	2911.5	2829.9	2754.7	2742.0	2657.8	2559.6	2444.9	2307.3
15°	3124.4	3140.9	3096.3	3022.4	2934.5	2859.2	2852.9	2770.0	2674.4	2546.9	2400.3
17.5°	3194.5	3211.0	3169.0	3079.7	3004.6	2940.8	2933.1	2864.4	2775.1	2652.7	2490.9
20°	3206.0	3221.3	3176.6	3098.9	3036.4	2985.4	2981.6	2931.9	2866.8	2749.6	2588.9
22.5°	3171.6	3190.6	3149.8	3087.4	3044.0	3017.3	3012.2	2984.2	2947.2	2847.8	2680.8
25°	3135.9	3151.2	3120.5	3065.8	3042.8	3040.3	3044.0	3038.9	3031.3	2947.2	2787.8
27.5°	3133.3	3149.8	3115.5	3063.2	3050.4	3077.2	3081.0	3105.2	3111.6	3037.7	2891.1
30°	3155.0	3166.4	3133.3	3078.5	3072.1	3133.3	3134.6	3177.9	3188.1	3114.2	2993.1
32.5°	3202.1	3214.9	3181.7	3101.4	3092.5	3177.9	3181.7	3239.1	3255.7	3195.7	3100.1
35°	3313.0	3328.3	3290.0	3165.2	3133.3	3219.9	3231.4	3299.0	3332.2	3282.5	3211.0
37.5°	3589.7	3545.1	3492.8	3293.9	3226.3	3286.3	3305.4	3384.4	3443.1	3385.7	3343.7
40°	4276.7	4136.5	3973.3	3513.2	3389.5	3427.7	3443.1	3522.1	3602.4	3546.3	3525.9
42.5°	5308.0	5142.2	4879.6	4017.9	3635.6	3654.6	3666.1	3735.0	3848.4	3803.8	3808.9
45°	6227.1	6167.1	5899.5	4879.6	4095.7	4001.4	4015.4	4051.1	4218.1	4201.5	4234.7
47.5°	6933.2	6898.9	6692.3	5868.8	4873.3	4425.8	4465.4	4481.9	4722.9	4781.5	4870.7
50°	7476.2	7463.5	7278.7	6748.4	5889.2	5051.7	5065.8	5030.1	5390.8	5536.1	5705.7
52.5°	7988.7	8032.1	7895.7	7565.5	6974.0	5871.4	5868.8	5700.6	6187.5	6406.8	6696.1
55°	8451.4	8466.7	8480.7	8399.2	8065.2	6804.5	6780.3	6505.0	7111.8	7338.6	7652.2
57.5°	8886.1	8892.5	9017.4	9184.4	9201.0	7806.4	7761.8	7431.7	8121.3	8283.2	8475.7
60°	9178.1	9207.4	9471.2	9935.2	10138.0	8840.2	8816.0	8479.5	9148.7	9224.0	9188.2
62.5°	8757.4	8935.8	9601.3	10521.6	11022.5	9986.3	9974.8	9658.6	10229.7	10168.5	9862.6
65°	7088.8	7390.9	8561.1	10918.1	11890.7	11266.1	11282.6	10946.1	11340.0	11141.1	10410.7
67.5°	4958.7	5277.4	6661.8	10950.0	12860.8	12768.9	12864.6	12336.8	12519.1	12073.0	10540.7
70°	3429.0	3593.4	4494.7	10264.1	13616.6	14839.1	14836.6	14045.0	13691.8	12497.4	9877.9
72.5°	2305.9	2391.4	2919.1	8143.0	13060.9	16069.2	15995.3	15350.3	14087.0	11688.0	8070.3
75°	972.6	1035.0	1351.3	4576.3	10332.9	14701.5	14501.3	13565.7	12516.6	9203.6	5035.2
77.5°	308.5	335.3	532.8	1638.1	5691.6	11050.6	10839.1	8471.8	8389.0	4617.1	1840.7
80°	146.6	170.8	299.6	657.7	2239.7	6010.4	5981.1	3843.3	3608.7	1246.7	369.7
82.5°	63.8	75.2	165.7	351.8	1001.9	2144.1	2187.5	1307.9	1082.2	472.9	113.5
85°	20.4	26.8	76.5	161.8	423.2	532.8	526.4	311.0	435.9	257.5	39.6
87.5°	0.0	0.0	25.5	37.0	43.4	30.5	34.4	26.8	121.1	71.3	14.0
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°	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9
2.5°	2056.1	2035.8	2000.1	1966.9	1937.6	1908.2	1890.4	1864.9	1862.4	1862.4	1868.8
5°	2070.2	2037.0	1973.3	1905.7	1828.0	1754.0	1680.1	1608.7	1585.8	1569.2	1576.9
7.5°	2111.0	2058.7	1958.0	1829.2	1681.4	1519.5	1406.0	1283.6	1236.5	1211.0	1214.8
10°	2169.6	2098.2	1945.2	1719.6	1480.0	1259.4	1097.6	964.9	914.0	892.3	892.3
12.5°	2234.6	2146.7	1922.3	1583.2	1259.4	995.6	837.5	776.3	768.6	768.6	768.6
15°	2312.4	2205.3	1882.8	1422.6	1028.7	787.8	731.6	734.2	741.9	747.0	747.0
17.5°	2392.7	2267.7	1820.3	1242.8	824.7	708.8	710.0	713.8	720.3	725.3	725.3
20°	2479.4	2330.2	1737.5	1051.6	707.5	685.8	689.6	693.4	698.5	701.1	702.3
22.5°	2572.4	2388.9	1639.3	864.3	668.0	666.7	668.0	671.8	678.1	678.1	680.7
25°	2671.9	2453.8	1527.1	727.9	647.6	647.6	650.2	652.6	657.7	657.7	659.1
27.5°	2773.9	2513.8	1408.6	656.5	629.8	628.4	628.4	632.2	634.8	636.1	637.3
30°	2886.0	2583.9	1290.1	641.2	615.7	609.4	605.5	608.0	610.6	611.8	614.4
32.5°	3000.7	2651.5	1184.2	647.6	601.7	590.2	577.5	574.9	574.9	580.0	583.8
35°	3128.2	2725.4	1102.6	669.2	594.0	562.1	541.7	530.3	531.6	539.3	543.0
37.5°	3281.1	2814.6	1042.7	688.4	589.0	530.3	497.1	483.1	474.2	483.1	480.6
40°	3481.3	2945.8	999.4	703.7	582.5	493.3	448.7	425.8	409.2	414.3	411.7
42.5°	3775.8	3152.4	982.8	704.9	568.6	450.0	399.0	368.4	344.2	345.4	340.4
45°	4188.8	3478.7	1068.3	688.4	537.9	402.8	346.8	306.0	290.6	286.8	281.7
47.5°	4754.8	3954.2	1265.8	653.9	493.3	356.9	295.7	261.3	249.9	243.4	239.6
50°	5513.2	4564.8	1485.0	615.7	448.7	313.5	253.7	232.0	224.4	218.0	216.7
52.5°	6392.7	5184.3	1664.8	577.5	404.1	275.3	226.9	214.1	207.8	202.6	201.4
55°	7199.7	5611.4	1654.6	536.7	360.7	244.8	207.8	200.2	192.5	187.4	184.8
57.5°	7702.0	5671.2	1364.0	492.0	311.0	220.5	189.9	184.8	175.9	169.5	168.3
60°	7932.7	5329.7	956.0	433.4	261.3	197.6	170.8	168.3	156.8	147.9	145.3
62.5°	7974.7	4694.8	637.3	360.7	218.0	175.9	151.7	147.9	132.5	117.3	109.7
65°	7803.9	3787.2	441.1	281.7	186.1	152.9	130.1	122.4	105.8	90.5	85.4
67.5°	7263.5	2659.1	307.2	202.6	158.1	121.1	103.2	100.7	87.9	75.2	71.3
70°	6272.9	1515.7	205.2	151.7	124.9	82.8	81.6	84.2	71.3	61.2	56.1
72.5°	4809.5	693.4	127.5	110.9	85.4	56.1	65.0	66.3	54.8	45.9	40.8
75°	2831.2	297.0	80.3	71.3	43.4	37.0	47.2	48.5	37.0	29.3	25.5
77.5°	963.7	112.1	50.9	42.0	21.6	20.4	30.5	30.5	20.4	11.5	8.9
80°	219.2	42.0	25.5	16.6	10.1	8.9	10.1	8.9	5.1	1.2	0.0
82.5°	62.4	16.6	10.1	6.4	3.8	3.8	1.2	0.0	0.0	0.0	0.0
85°	17.8	7.7	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.7	1.2	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)