

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: LUMARK

Report Number: P960482

Luminaire Tested: **NAV-SB1C-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-827-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5558.6 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 54.4
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



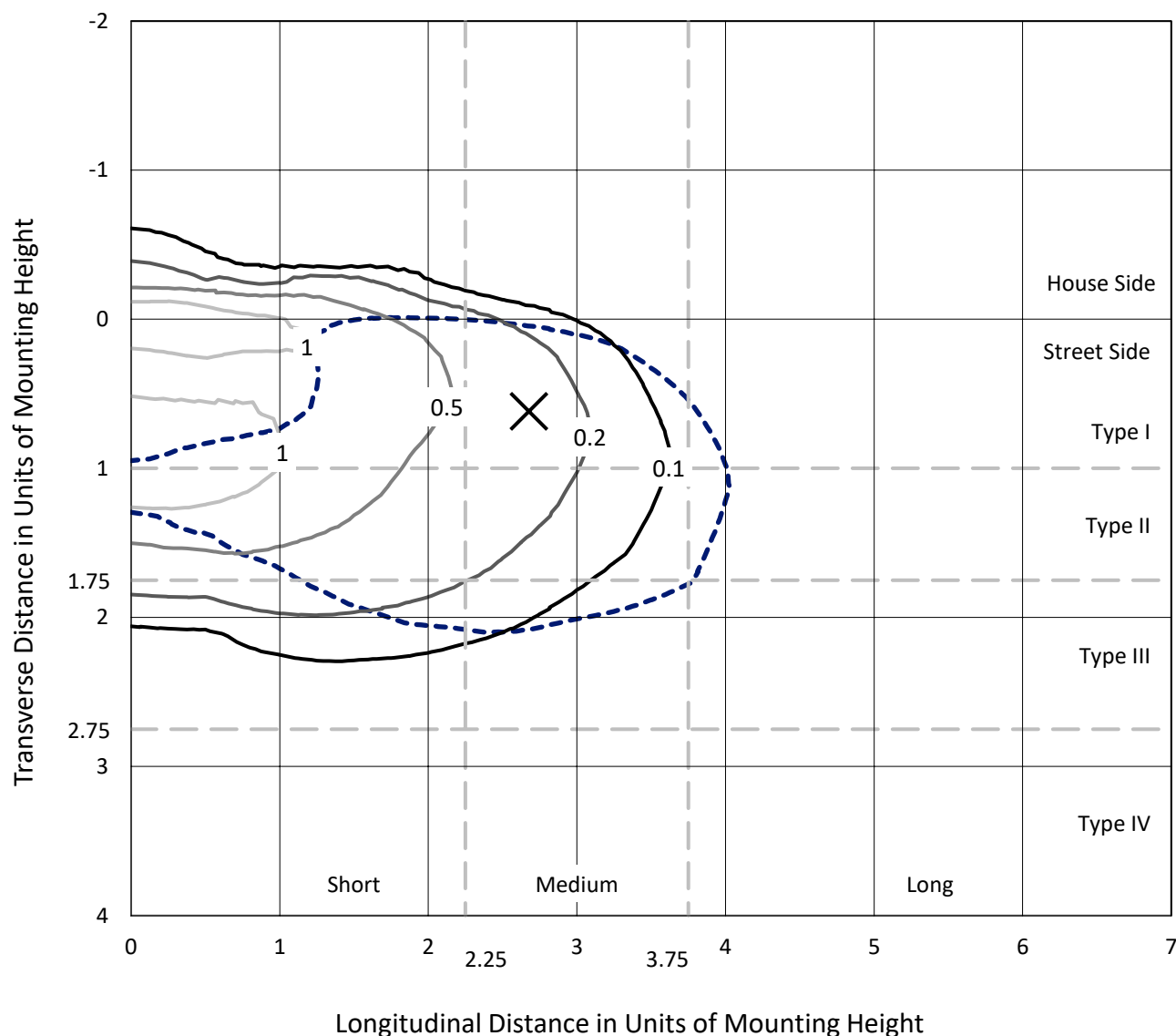
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

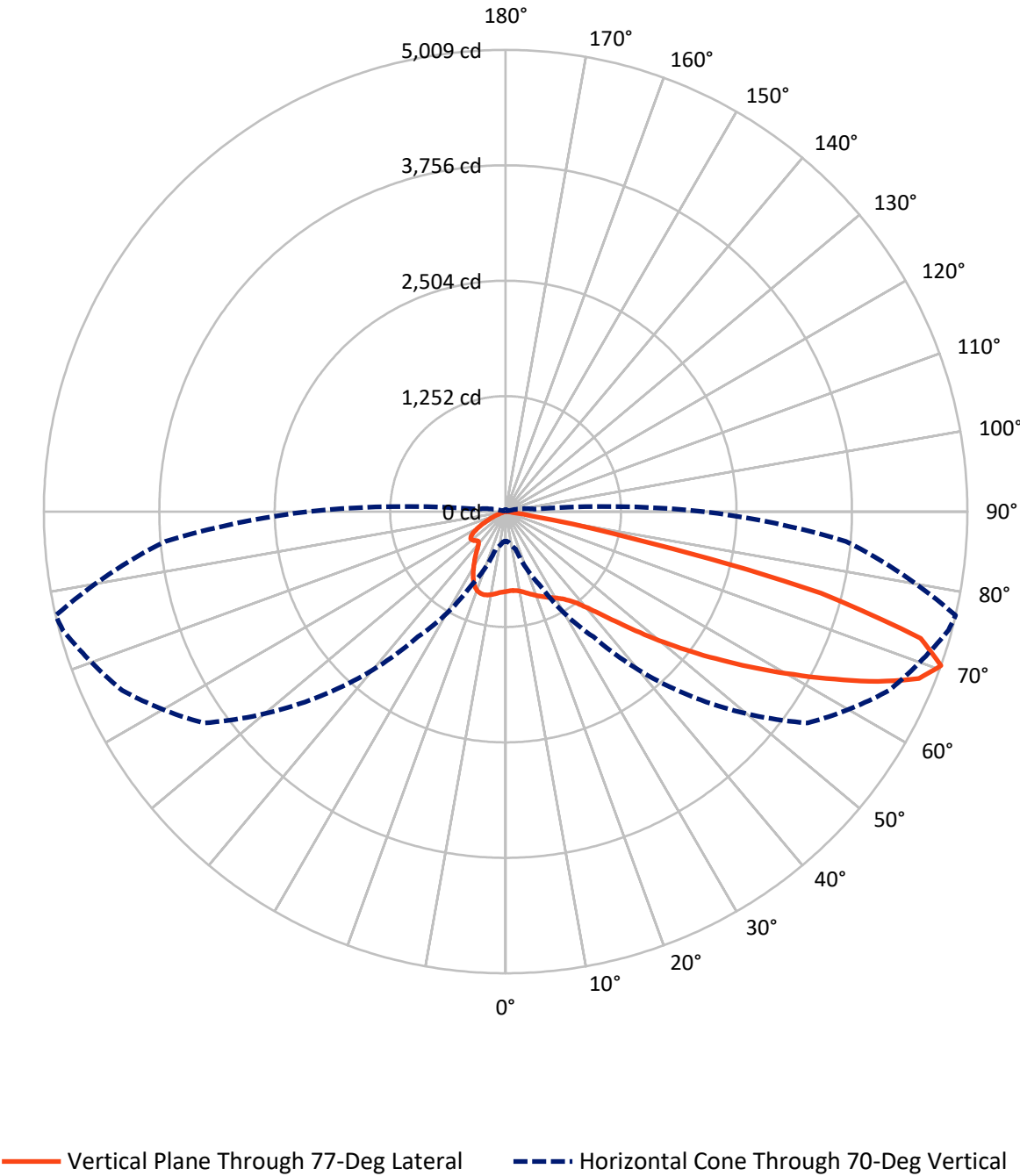


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc

Type III - Medium - N/A

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Luminous Intensity Polar Plot



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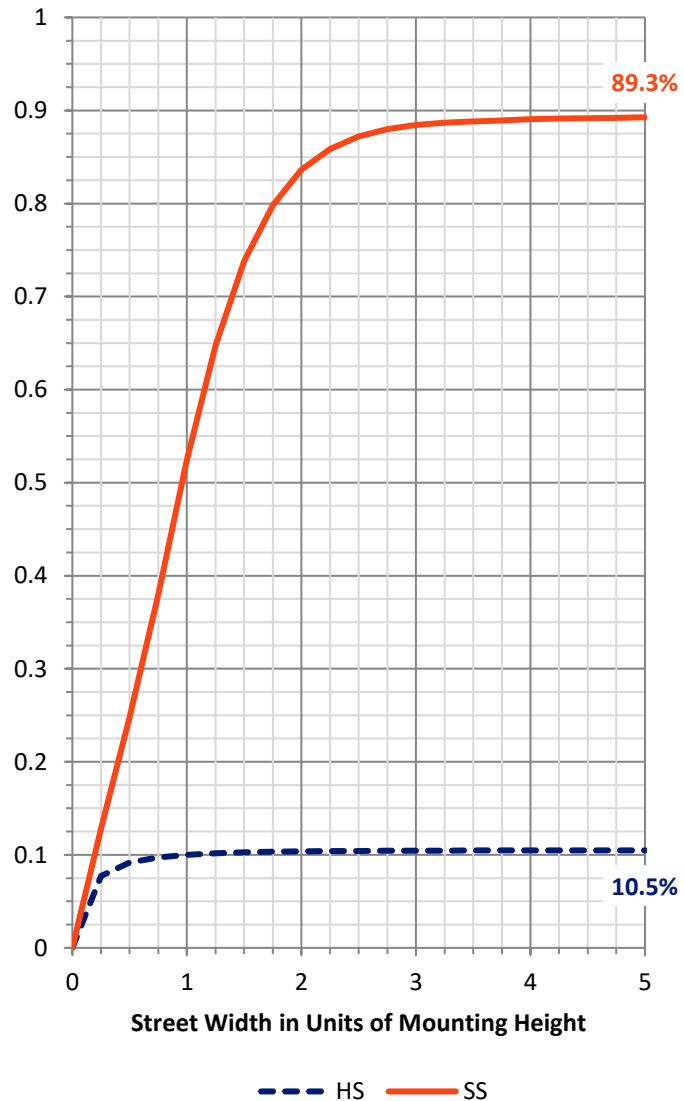
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	585.9	0.0	585.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4972.6	0.0	4972.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	5558.6	0.0	5558.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	1.3
10°-20°	177.4	3.2
20°-30°	274.4	4.9
30°-40°	497.9	9.0
40°-50°	939.8	16.9
50°-60°	1357.9	24.4
60°-70°	1445.4	26.0
70°-80°	766.0	13.8
80°-90°	25.2	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°	5558.6	100.0
0°-180°	5558.6	100.0

Coefficient of Utilization



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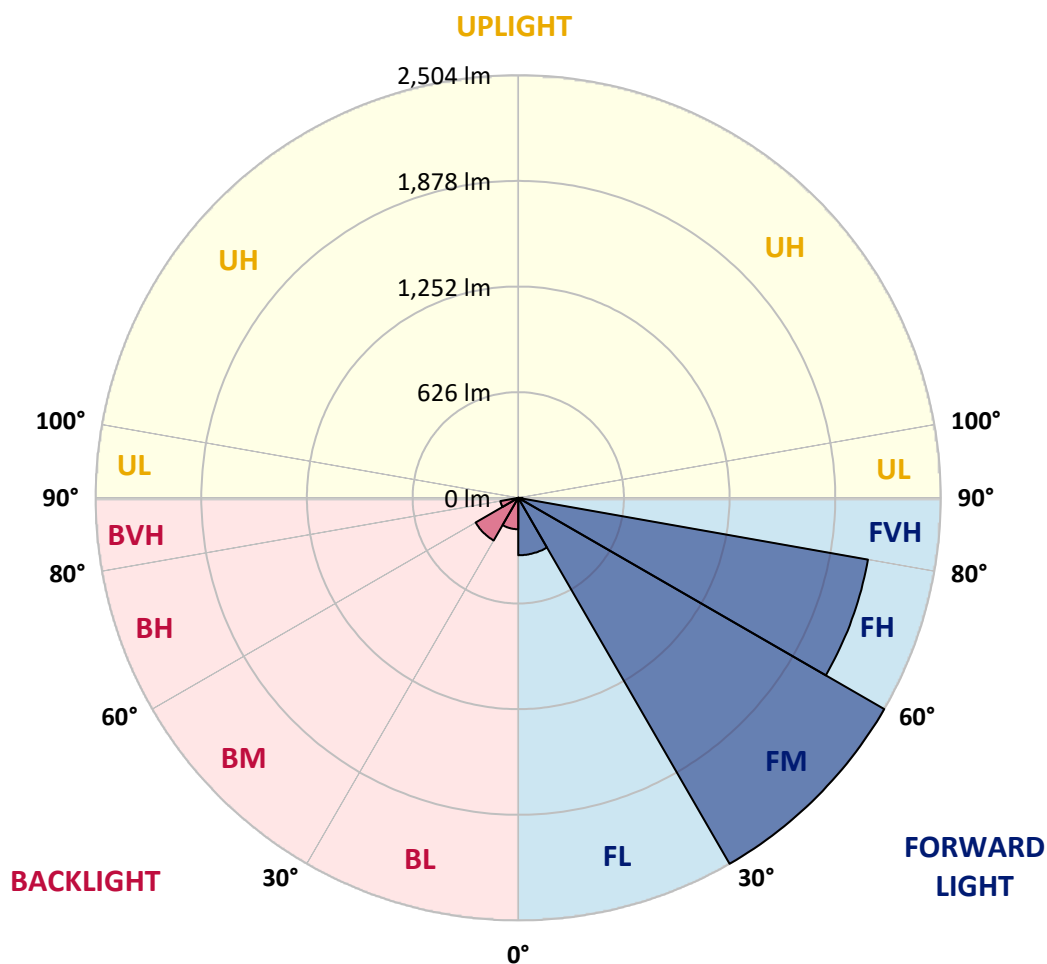
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	340.3	6.1			
FM	(30°-60°)	2503.8	45.0			
FH	(60°-80°)	2104.0	37.9			G2/5000
FVH	(80°-90°)	24.5	0.4			G1/100
BL	(0°-30°)	186.2	3.3	B1/500		
BM	(30°-60°)	291.7	5.2	B1/1000		
BH	(60°-80°)	107.4	1.9	B0/110		G0/110
BVH	(80°-90°)	0.7	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0
2.5°	814.1	821.4	820.3	825.2	827.0	834.0	841.0	850.5	861.1	860.7	867.8
5°	768.0	775.4	777.2	783.8	792.2	803.2	817.5	836.5	856.2	859.4	873.4
7.5°	713.6	721.4	725.9	739.2	754.7	777.2	800.7	828.4	861.1	865.6	892.7
10°	659.3	666.2	672.2	691.2	715.8	749.1	787.4	827.4	871.2	877.9	916.1
12.5°	625.6	632.2	638.9	655.4	685.9	726.6	778.6	832.3	888.1	897.6	948.1
15°	613.6	619.6	624.8	639.6	668.0	714.3	776.8	842.4	909.5	922.2	986.8
17.5°	615.3	618.5	622.0	633.2	661.0	708.7	780.0	860.0	934.8	946.0	1025.3
20°	625.6	627.3	627.6	635.4	659.9	708.1	786.3	876.9	958.7	973.7	1063.6
22.5°	638.5	639.2	638.5	643.8	666.6	713.3	794.7	897.2	985.3	999.4	1102.2
25°	699.3	685.9	669.0	658.9	677.8	723.4	807.4	924.7	1014.4	1028.2	1139.8
27.5°	887.8	849.5	789.1	721.4	701.0	738.2	824.9	952.3	1044.0	1056.3	1180.2
30°	1193.8	1143.7	1041.2	888.5	775.4	769.1	847.8	980.1	1075.2	1088.6	1223.3
32.5°	1500.6	1488.4	1370.0	1158.8	942.9	837.9	885.6	1017.6	1116.6	1127.2	1281.6
35°	1811.0	1786.1	1689.1	1480.3	1200.9	978.0	948.8	1066.8	1171.1	1183.0	1366.5
37.5°	2048.6	2033.5	1973.4	1801.4	1507.0	1194.2	1057.0	1143.0	1250.0	1263.3	1475.4
40°	2258.5	2251.5	2231.1	2117.8	1849.2	1477.1	1225.1	1260.9	1359.6	1375.3	1608.7
42.5°	2423.5	2440.0	2451.6	2420.0	2202.0	1800.1	1451.2	1426.6	1512.2	1528.4	1778.7
45°	2592.3	2598.0	2644.6	2690.3	2552.4	2137.7	1706.0	1620.7	1702.1	1722.1	1982.2
47.5°	2700.8	2723.2	2805.4	2885.8	2846.8	2472.6	1979.8	1849.9	1922.2	1959.8	2210.4
50°	2708.9	2751.3	2864.4	3004.5	3061.3	2791.4	2277.4	2111.1	2188.0	2229.4	2454.1
52.5°	2574.4	2640.4	2815.6	3020.6	3177.2	3061.3	2585.4	2372.3	2470.9	2525.0	2706.8
55°	1973.8	2060.1	2632.0	2932.8	3181.7	3266.0	2885.1	2644.3	2786.1	2847.1	2979.9
57.5°	1719.6	1763.2	2069.3	2780.5	3097.1	3348.5	3156.1	2903.3	3129.0	3204.9	3237.9
60°	1430.8	1488.0	1735.4	2531.2	2982.3	3356.6	3395.5	3237.6	3500.8	3586.1	3474.4
62.5°	972.3	1034.4	1280.5	2103.0	2825.4	3352.7	3591.7	3581.6	3914.0	4005.6	3674.9
65°	602.4	641.3	803.5	1717.2	2606.1	3356.9	3797.1	3999.2	4349.9	4443.0	3830.0
67.5°	476.0	493.8	578.5	1318.5	2227.9	3262.1	4002.1	4392.0	4760.3	4834.0	3877.5
70°	319.8	330.7	420.9	883.9	1657.5	2824.7	3998.2	4589.3	4971.6	5008.5	3704.8
72.5°	168.5	176.9	246.1	409.3	1001.1	2007.9	3370.2	4353.5	4761.3	4705.9	3166.6
75°	84.3	98.3	165.6	207.8	427.5	1119.8	2092.8	3432.3	3747.6	3532.8	2031.8
77.5°	63.9	77.2	136.9	136.9	148.8	377.0	886.3	1872.1	1726.7	1437.8	596.3
80°	40.7	52.7	119.7	103.5	62.1	95.8	230.9	524.4	366.8	279.1	108.4
82.5°	23.9	34.4	99.7	68.5	34.7	35.5	65.3	111.6	95.1	74.1	33.3
85°	9.4	22.4	68.5	27.1	13.7	8.8	19.7	23.9	19.7	14.8	8.4
87.5°	0.0	5.2	11.9	0.0	1.0	0.7	1.4	1.7	1.7	1.4	2.8
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°	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0
2.5°	870.9	871.6	873.7	874.0	869.1	862.8	860.4	859.4	855.1	854.7	855.5
5°	881.4	884.6	881.4	872.3	850.5	820.0	796.8	777.9	760.7	755.4	752.2
7.5°	902.5	905.7	896.2	860.4	805.6	744.9	690.1	651.5	616.7	603.7	598.5
10°	932.6	936.8	907.0	834.8	737.9	640.3	547.6	482.3	431.4	410.7	401.9
12.5°	970.6	972.3	913.1	795.8	649.7	510.3	379.1	309.2	263.9	247.1	241.9
15°	1012.4	1009.9	913.7	742.8	529.7	360.9	247.4	203.3	185.0	179.4	179.4
17.5°	1056.3	1046.0	899.6	666.2	398.1	246.8	183.6	173.0	169.9	168.5	168.1
20°	1099.4	1076.6	874.0	566.2	285.8	184.3	166.8	163.6	161.8	161.1	160.4
22.5°	1138.8	1099.7	830.1	450.0	207.5	162.9	157.6	154.8	151.6	150.3	149.9
25°	1177.0	1113.1	768.4	341.5	166.0	152.3	148.1	142.9	138.7	136.9	136.2
27.5°	1214.2	1121.6	691.2	252.8	148.1	142.5	134.8	127.4	124.2	123.5	122.9
30°	1253.9	1124.3	603.4	188.5	137.2	130.3	119.0	110.6	108.9	109.2	109.2
32.5°	1302.3	1128.5	515.0	154.5	128.1	115.5	102.2	93.4	91.9	93.4	93.1
35°	1360.3	1136.9	429.7	142.2	120.0	100.3	86.0	78.6	77.2	78.3	77.9
37.5°	1438.9	1150.7	349.9	139.7	113.4	87.7	72.3	66.3	66.3	66.7	66.3
40°	1543.4	1187.2	278.7	138.0	109.9	78.3	61.1	58.6	59.7	60.4	60.4
42.5°	1670.9	1264.7	230.6	135.8	106.0	74.1	55.5	54.4	56.2	56.9	56.9
45°	1813.7	1363.0	213.8	132.3	102.5	76.9	53.0	51.6	53.7	54.0	54.4
47.5°	1961.5	1459.2	211.7	128.4	99.0	81.1	52.3	49.1	51.6	52.0	52.3
50°	2111.1	1522.0	213.8	122.5	93.4	81.1	52.7	46.6	48.8	49.8	50.2
52.5°	2261.7	1550.8	212.4	109.5	83.5	76.2	52.7	44.6	46.6	47.4	47.4
55°	2407.7	1545.2	191.0	90.2	70.9	67.4	51.2	42.8	44.3	44.6	44.6
57.5°	2523.1	1467.0	151.3	70.2	57.6	56.2	46.6	40.7	41.8	41.4	41.4
60°	2583.5	1295.0	108.1	54.0	45.3	44.3	41.1	37.9	38.6	36.9	36.5
62.5°	2584.2	1067.4	72.3	42.8	36.2	35.1	35.1	34.0	33.3	29.8	28.8
65°	2529.2	815.1	48.1	34.0	29.1	27.4	29.5	29.1	26.6	21.7	21.0
67.5°	2404.1	534.2	36.5	26.6	22.4	21.4	23.5	24.6	22.9	18.2	17.9
70°	2147.3	311.0	30.2	20.7	16.8	15.8	19.0	21.0	19.0	14.8	14.0
72.5°	1783.6	167.8	24.6	15.5	11.6	10.6	15.1	17.2	15.1	10.9	10.6
75°	1157.3	89.9	19.0	10.1	5.9	6.7	11.3	12.6	10.6	7.0	6.4
77.5°	388.6	39.7	11.9	4.9	2.8	2.8	6.7	7.7	4.9	2.5	2.2
80°	86.7	16.5	4.9	2.2	1.0	1.0	1.4	1.4	0.7	0.0	0.0
82.5°	28.4	6.7	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.9	2.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	0.3	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)