

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: P960361

Luminaire Tested: **NAV-SB1C-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-735-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5813.8 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
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



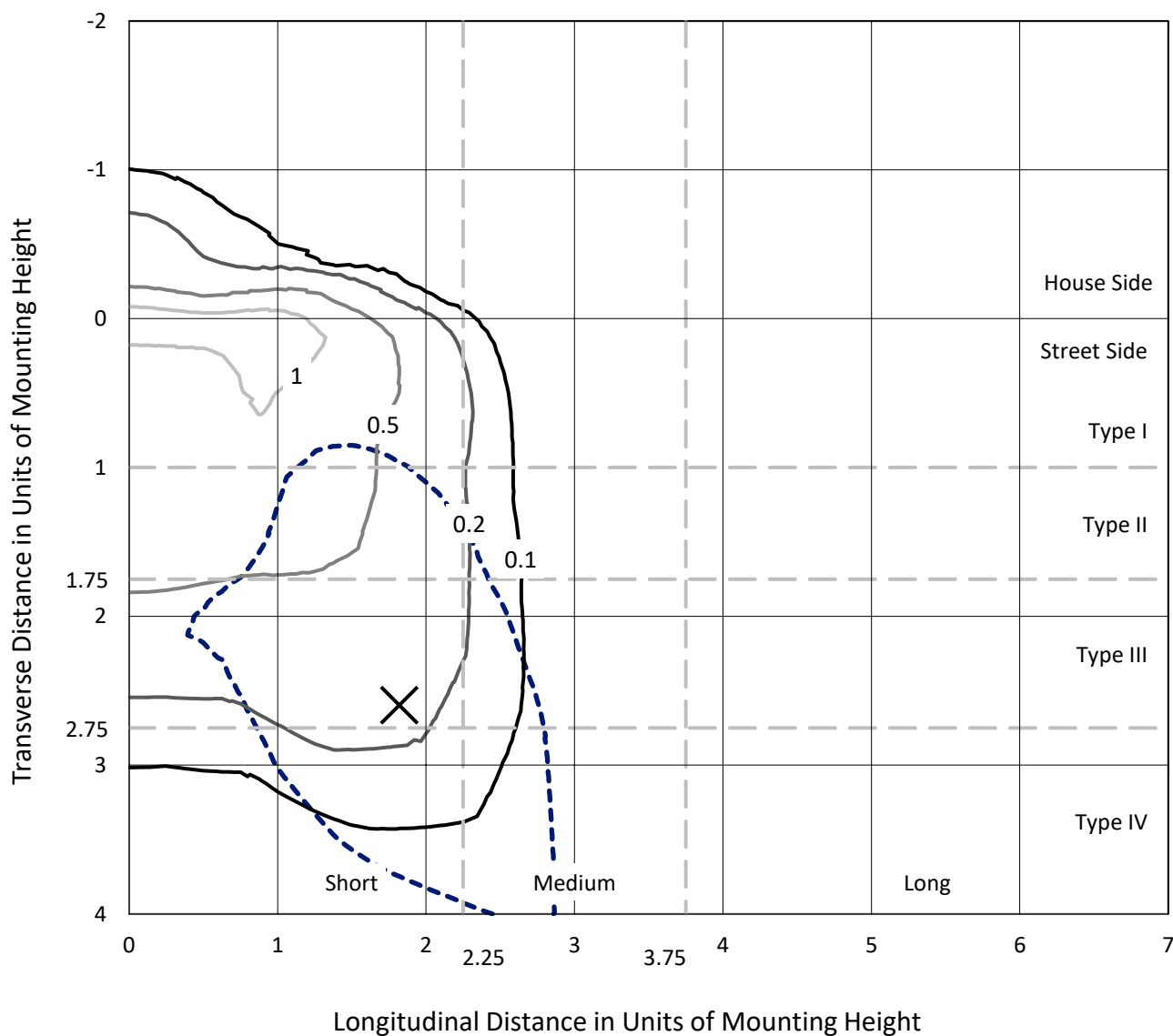
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

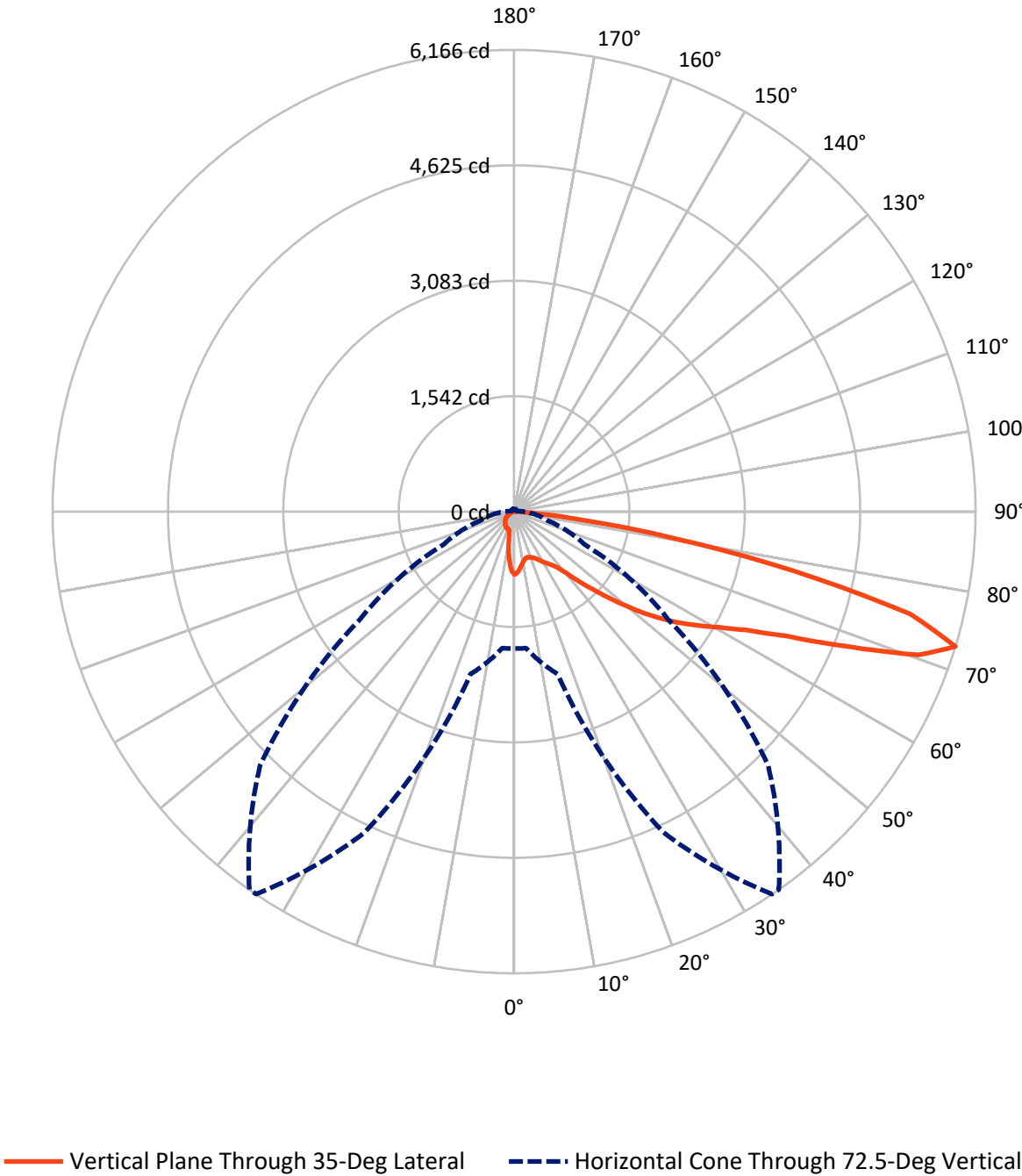


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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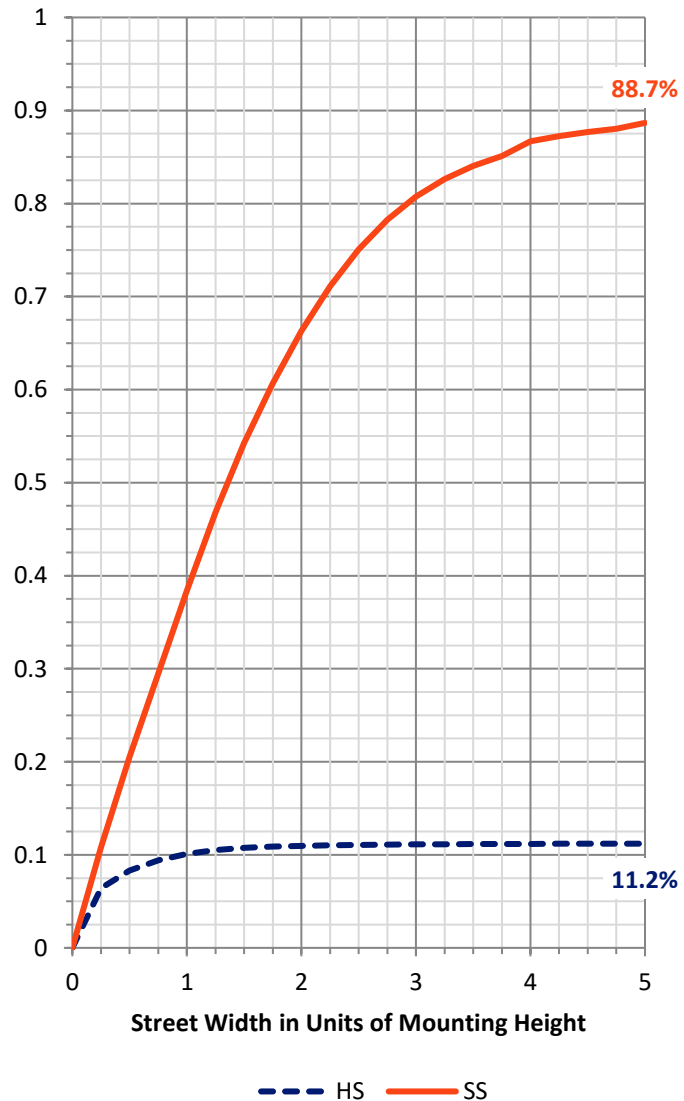
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	654.3	0.0	654.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	5159.5	0.0	5159.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	5813.8	0.0	5813.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	1.2
10°-20°	162.0	2.8
20°-30°	263.1	4.5
30°-40°	439.0	7.6
40°-50°	830.7	14.3
50°-60°	1319.9	22.7
60°-70°	1632.8	28.1
70°-80°	1015.0	17.5
80°-90°	82.0	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°	5813.8	100.0
0°-180°	5813.8	100.0

Coefficient of Utilization



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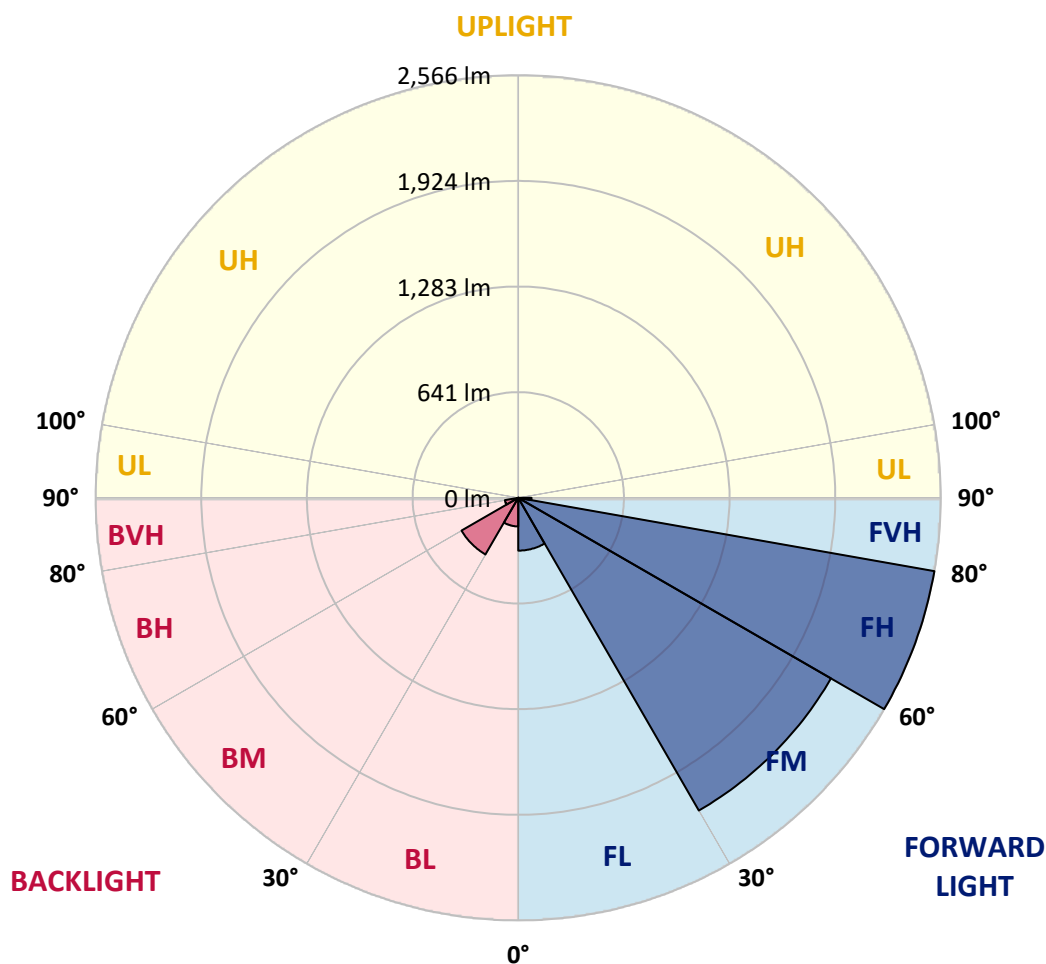
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	320.5	5.5			
FM	(30°-60°)	2192.4	37.7			
FH	(60°-80°)	2565.7	44.1			G2/5000
FVH	(80°-90°)	80.9	1.4			G1/100
BL	(0°-30°)	173.9	3.0	B1/500		
BM	(30°-60°)	397.2	6.8	B1/1000		
BH	(60°-80°)	82.1	1.4	B0/110		G0/110
BVH	(80°-90°)	1.1	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	842.7	842.7	842.7	842.7	842.7	842.7	842.7	842.7	842.7	842.7	842.7
2.5°	805.1	811.9	813.2	815.4	815.4	817.9	822.2	828.1	837.9	843.1	846.4
5°	742.1	747.2	753.6	758.7	768.4	769.8	786.4	802.6	825.1	842.1	854.1
7.5°	678.7	684.6	693.1	705.4	718.2	722.0	747.2	774.5	810.3	842.1	862.2
10°	633.9	634.3	642.0	654.4	674.8	679.5	710.1	748.9	793.7	837.1	869.9
12.5°	608.7	611.7	615.1	624.5	644.1	647.1	679.9	725.5	777.1	834.1	878.8
15°	608.7	610.9	613.1	617.7	633.4	636.0	665.0	710.5	768.4	835.4	893.3
17.5°	615.1	618.6	616.8	622.4	639.0	640.7	666.2	706.3	768.0	843.5	915.4
20°	630.5	633.0	629.7	633.0	649.6	653.0	679.5	714.4	775.3	857.5	943.1
22.5°	654.8	656.0	647.9	650.5	667.6	671.8	702.4	737.4	792.7	880.1	980.2
25°	685.4	688.0	675.6	678.7	694.7	699.9	735.2	771.9	820.5	911.2	1027.5
27.5°	720.8	722.0	711.5	710.9	731.8	739.1	774.9	814.5	857.5	950.4	1087.1
30°	761.3	765.1	754.8	753.2	779.6	785.6	820.9	866.9	912.0	1009.2	1171.9
32.5°	793.2	796.2	790.2	794.5	821.3	826.0	876.7	941.1	997.6	1092.6	1287.4
35°	839.2	840.9	827.3	835.0	865.6	877.5	952.9	1045.0	1105.5	1197.5	1438.2
37.5°	1005.7	1005.7	947.8	909.9	939.3	950.0	1057.3	1175.8	1238.4	1338.0	1628.1
40°	1236.3	1232.4	1147.6	1070.1	1066.3	1087.1	1206.0	1340.6	1410.0	1506.7	1842.0
42.5°	1482.0	1476.1	1360.6	1283.9	1271.2	1278.4	1377.7	1543.8	1614.5	1712.5	2072.0
45°	1700.2	1698.4	1592.7	1489.7	1466.7	1489.7	1591.9	1781.6	1832.2	1935.3	2301.6
47.5°	1882.9	1882.9	1805.7	1738.5	1726.5	1740.1	1882.0	2045.2	2040.5	2172.6	2525.3
50°	2093.4	2091.6	2018.3	1989.4	2001.7	2020.9	2216.0	2323.0	2256.0	2405.6	2725.1
52.5°	2240.8	2250.9	2225.8	2221.2	2284.2	2317.4	2555.1	2594.7	2449.0	2626.7	2874.6
55°	2357.4	2369.4	2398.3	2431.1	2552.6	2596.0	2883.5	2852.5	2610.5	2818.3	2960.6
57.5°	2522.7	2505.7	2550.4	2615.2	2811.6	2864.0	3201.8	3095.7	2740.4	2973.8	2970.0
60°	2723.4	2725.9	2733.6	2815.4	3070.2	3137.4	3515.3	3325.7	2823.9	3069.3	2866.1
62.5°	2964.5	2968.3	2984.1	3109.7	3417.4	3480.8	3849.3	3514.0	2862.2	3042.4	2597.7
65°	2947.9	2964.1	3140.0	3569.9	3945.1	4007.7	4239.1	3646.0	2804.3	2797.1	2115.1
67.5°	2685.5	2711.8	3006.2	4119.4	4740.8	4810.7	4710.2	3672.1	2554.3	2175.2	1379.8
70°	2341.3	2350.6	2704.7	4613.5	5662.3	5733.0	5132.0	3386.2	1938.3	1213.2	618.1
72.5°	1828.4	1830.4	2245.9	4728.1	6162.4	6166.3	4800.9	2513.8	1042.4	466.1	214.7
75°	1306.1	1293.3	1504.2	3834.3	5421.6	5465.1	3599.2	1179.2	398.3	220.3	106.9
77.5°	700.4	714.4	851.2	2274.0	3745.3	3819.5	1963.8	340.0	202.7	150.0	70.7
80°	216.4	228.4	348.9	1041.1	2121.4	2166.1	728.1	151.2	141.4	106.9	46.4
82.5°	68.2	70.7	162.8	437.5	880.6	901.0	210.8	85.6	96.7	70.7	27.3
85°	19.6	20.0	72.5	163.2	217.7	221.9	59.2	33.2	55.4	43.9	14.0
87.5°	2.2	6.8	27.3	27.3	19.2	18.8	6.4	7.3	15.8	5.5	2.6
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°	842.7	842.7	842.7	842.7	842.7	842.7	842.7	842.7	842.7	842.7	842.7
2.5°	844.3	844.7	839.2	829.8	819.6	811.1	800.4	791.9	786.0	784.2	787.2
5°	850.2	847.3	831.6	803.0	769.0	739.5	706.7	680.7	663.7	656.4	659.0
7.5°	859.3	850.7	816.2	759.9	694.7	636.8	578.1	532.5	503.5	489.0	491.2
10°	866.9	849.8	790.7	697.8	598.1	510.3	431.1	376.2	345.5	331.0	331.4
12.5°	874.1	849.4	757.4	624.1	489.0	381.7	308.0	280.7	272.2	269.3	268.3
15°	887.8	850.7	715.7	539.8	380.4	288.4	261.6	261.2	262.8	262.0	261.6
17.5°	906.5	852.0	668.4	450.3	293.6	254.3	253.1	256.9	259.4	258.2	257.7
20°	930.8	857.1	618.1	361.6	252.2	245.8	248.8	252.2	254.3	252.2	251.7
22.5°	964.8	866.0	563.1	290.5	239.0	240.7	243.2	247.0	249.2	246.2	245.8
25°	1006.7	880.1	509.0	252.7	232.6	234.7	238.5	242.8	245.4	242.4	242.0
27.5°	1060.8	902.7	459.2	244.1	226.2	227.4	233.0	239.4	242.8	239.0	239.0
30°	1139.1	939.7	416.2	247.9	222.3	219.4	227.0	236.0	239.8	236.5	236.0
32.5°	1243.0	992.1	389.8	253.9	220.7	210.0	217.3	228.8	235.1	233.0	233.0
35°	1379.3	1071.8	379.6	260.7	219.4	200.2	205.3	217.7	228.8	230.9	230.9
37.5°	1544.7	1182.5	382.5	263.7	215.6	192.1	194.6	205.3	219.9	226.6	228.4
40°	1732.6	1311.6	399.5	260.7	211.3	185.3	185.7	193.8	206.6	216.8	220.3
42.5°	1926.4	1462.5	431.1	249.6	207.5	179.4	178.0	183.6	192.1	199.4	202.3
45°	2110.8	1617.4	462.2	234.3	202.7	173.4	170.4	172.5	174.2	177.2	179.0
47.5°	2271.8	1726.5	453.3	220.3	196.4	166.6	161.4	160.6	155.5	155.1	154.7
50°	2383.0	1750.4	402.5	206.2	187.0	158.9	150.8	145.7	136.7	132.5	132.9
52.5°	2418.4	1656.3	328.8	192.1	171.7	148.6	137.1	129.0	118.0	114.2	113.8
55°	2371.5	1471.8	262.8	175.1	150.4	135.0	122.3	111.6	102.7	98.0	98.0
57.5°	2256.9	1237.1	207.9	155.1	127.8	119.7	106.9	96.2	88.6	83.9	83.0
60°	2066.9	982.4	164.4	131.2	109.1	103.1	89.9	83.0	76.3	70.7	69.4
62.5°	1778.5	701.2	129.0	103.9	91.1	84.4	76.7	71.5	63.4	55.8	54.5
65°	1387.8	429.0	99.7	76.3	73.3	69.9	65.2	60.5	50.7	43.0	41.7
67.5°	875.5	203.2	71.1	57.5	57.9	56.3	54.1	50.2	43.0	36.2	35.4
70°	385.5	98.4	46.8	43.9	43.0	43.0	44.7	43.5	36.6	30.2	29.0
72.5°	131.2	52.8	35.0	33.2	31.1	30.6	37.5	36.2	29.4	23.5	22.1
75°	68.6	35.4	25.5	23.9	18.8	22.5	29.8	28.1	20.9	15.4	14.0
77.5°	44.7	25.1	17.4	15.4	10.7	14.9	22.1	19.6	12.4	7.7	6.8
80°	28.1	16.6	10.2	7.3	5.1	8.1	11.9	8.5	4.7	1.7	1.2
82.5°	14.9	8.5	3.8	2.6	2.2	2.6	3.0	2.2	0.8	0.0	0.0
85°	5.9	3.0	1.2	0.8	0.4	0.0	0.8	0.4	0.0	0.0	0.0
87.5°	2.2	0.4	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)