

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: P885316

Luminaire Tested: **NAV-SB6C-750-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-750-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35787 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

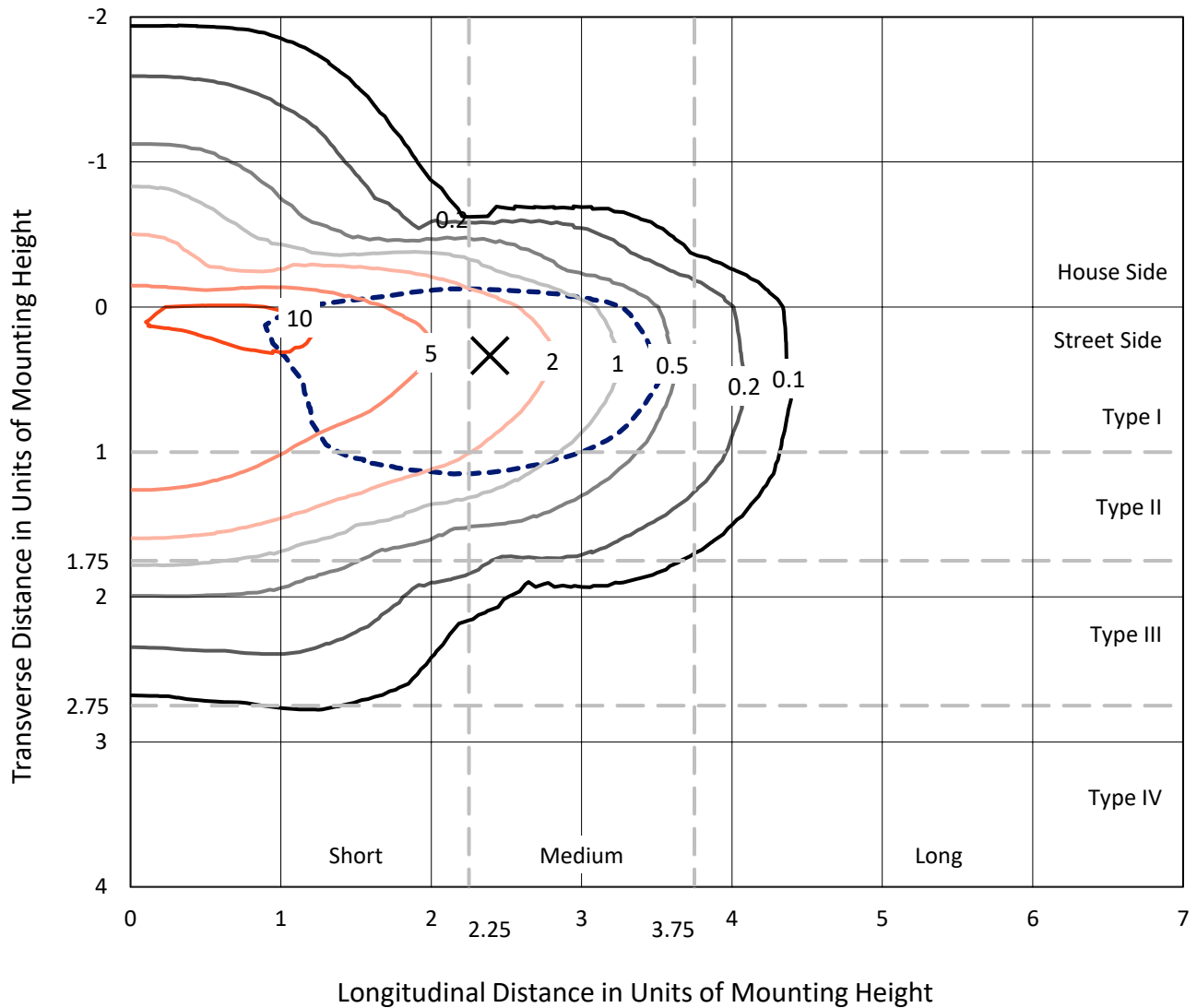
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

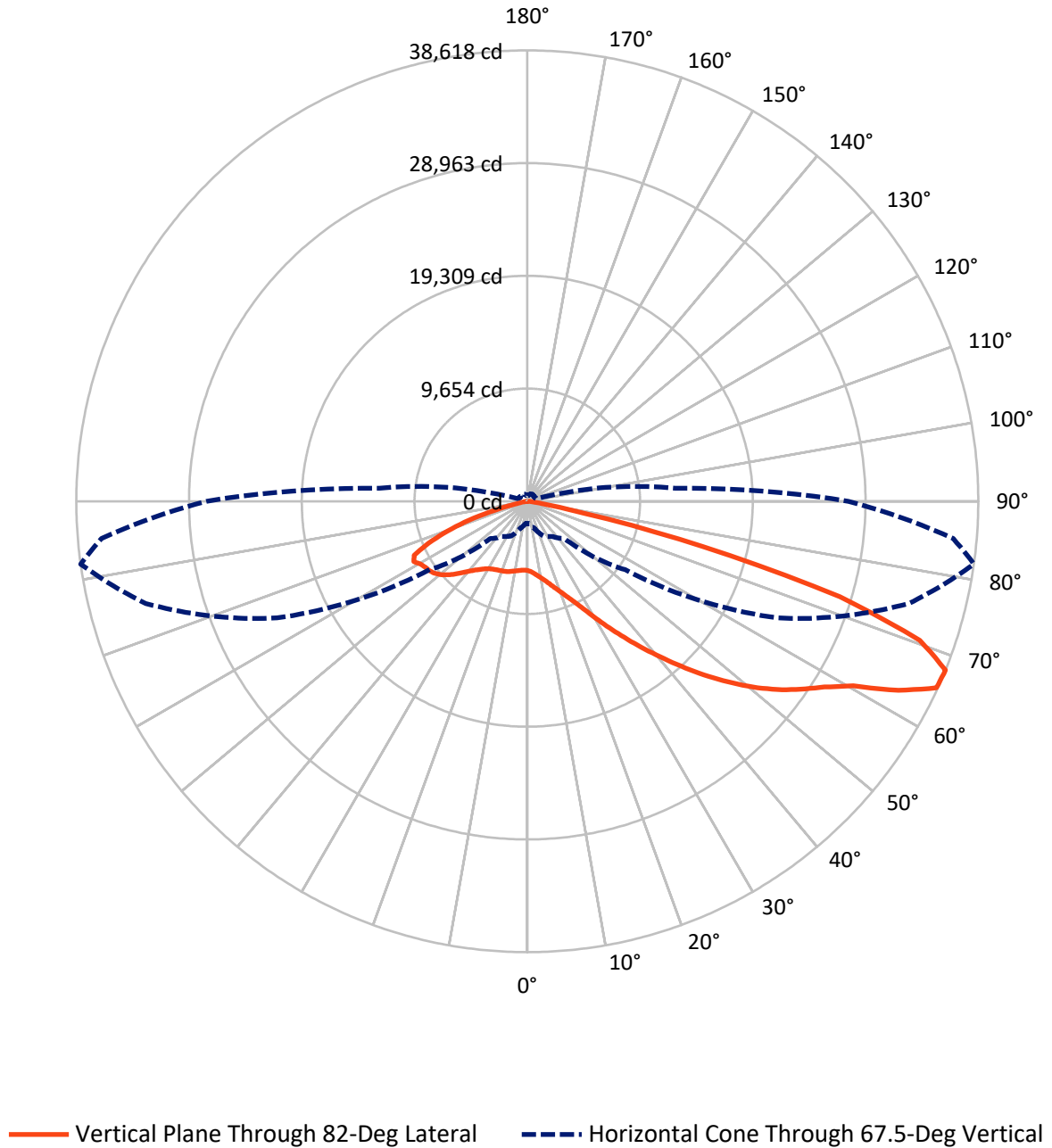
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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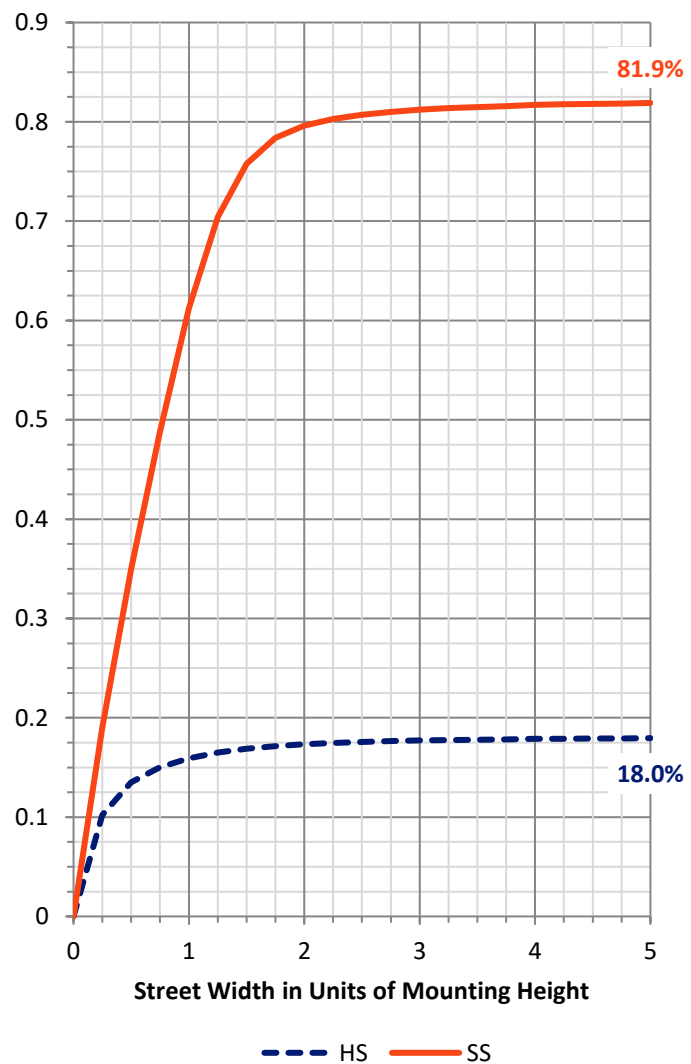
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6482.5	0.0	6482.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	29304.5	0.0	29304.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	35787.0	0.0	35787.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.2	1.5
10°-20°	1372.6	3.8
20°-30°	2198.4	6.1
30°-40°	3887.5	10.9
40°-50°	6811.3	19.0
50°-60°	9084.4	25.4
60°-70°	8457.1	23.6
70°-80°	3245.8	9.1
80°-90°	201.6	0.6
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°	35787.0	100.0
0°-180°	35787.0	100.0

Coefficient of Utilization



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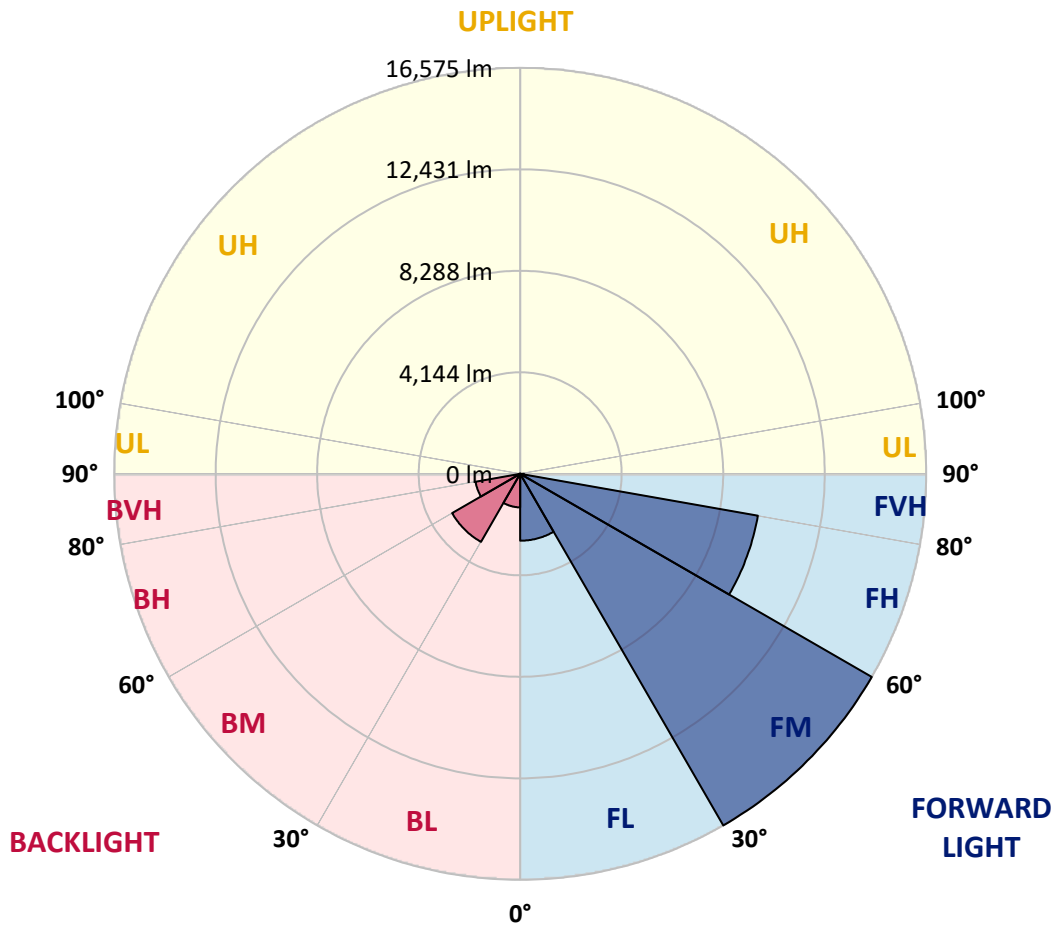
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2730.1	7.6			
FM (30°-60°)	16575.1	46.3			
FH (60°-80°)	9852.7	27.5			G4/12000
FVH (80°-90°)	146.6	0.4			G2/225
BL (0°-30°)	1369.1	3.8	B3/2500		
BM (30°-60°)	3208.2	9.0	B3/5000		
BH (60°-80°)	1850.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	55.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5928.7	5928.7	5928.7	5928.7	5928.7	5928.7	5928.7	5928.7	5928.7	5928.7	5928.7
2.5°	6266.2	6302.3	6281.7	6271.4	6253.3	6227.6	6207.0	6142.6	6075.6	6031.8	6016.3
5°	6392.5	6428.6	6426.0	6436.3	6449.2	6456.9	6451.7	6379.6	6284.3	6209.5	6165.7
7.5°	6284.3	6325.5	6359.0	6410.5	6500.7	6596.0	6642.4	6626.9	6529.0	6426.0	6371.9
10°	5977.6	6021.5	6101.3	6222.4	6413.1	6619.2	6791.8	6871.7	6809.9	6696.5	6621.8
12.5°	5416.0	5459.8	5616.9	5879.7	6199.2	6557.4	6887.2	7101.0	7116.5	7003.1	6915.5
15°	4784.7	4828.5	4996.0	5325.8	5812.7	6387.3	6938.7	7343.2	7479.8	7381.9	7276.2
17.5°	4393.1	4431.7	4558.0	4823.3	5330.9	6047.2	6920.7	7600.9	7912.7	7835.4	7709.1
20°	4274.5	4308.0	4367.3	4552.8	4975.4	5694.2	6802.2	7843.1	8379.0	8335.2	8193.5
22.5°	4400.8	4431.7	4449.7	4532.2	4797.6	5462.3	6652.7	8090.4	8920.1	8925.2	8752.6
25°	4691.9	4722.9	4702.2	4753.8	4869.7	5390.2	6596.0	8381.6	9600.3	9657.0	9461.2
27.5°	5171.2	5173.8	5124.8	5122.2	5140.3	5498.4	6655.3	8693.4	10458.3	10563.9	10321.8
30°	6132.2	6093.6	5905.5	5702.0	5609.2	5823.1	6820.2	9061.8	11470.9	11659.0	11355.0
32.5°	7613.8	7557.1	7211.8	6724.9	6235.3	6346.1	7116.5	9481.8	12573.7	12913.8	12542.8
35°	9221.6	9206.1	8845.4	8121.4	7265.9	7090.7	7598.3	10033.2	13776.9	14318.0	13877.4
37.5°	10716.0	10708.2	10502.1	9649.3	8608.3	8129.1	8371.3	10754.6	15065.2	15848.5	15328.0
40°	12081.6	12104.7	11898.6	11135.9	10087.3	9461.2	9422.5	11646.1	16497.8	17515.5	16897.2
42.5°	13261.6	13287.4	13078.7	12514.4	11548.2	10935.0	10713.4	12738.6	17896.9	19306.3	18574.5
45°	14062.9	14222.7	14191.8	13740.9	13047.8	12411.4	12264.5	14109.3	19491.8	21205.2	20347.2
47.5°	14289.7	14436.5	14668.4	14730.3	14307.7	13681.6	13856.8	15760.9	21104.7	23106.7	22130.2
50°	13730.6	13867.1	14348.9	14990.5	15284.2	15091.0	15405.3	17531.0	22756.3	25003.1	23879.7
52.5°	12627.8	12766.9	13375.0	14390.2	15588.3	16196.3	16959.0	19275.3	24356.3	26798.9	25536.4
55°	11032.9	11179.8	11960.5	13109.6	15008.5	16652.4	18255.0	21017.1	25822.4	28414.4	27030.8
57.5°	8863.4	8971.6	9783.2	11391.0	13550.2	16198.9	19210.9	22918.6	27203.5	30001.6	28512.4
60°	5776.7	5872.0	6815.0	8608.3	11133.4	14683.9	19401.6	25039.1	29038.0	32065.5	30509.2
62.5°	3841.7	3906.1	4465.2	5781.8	7840.5	11774.9	18285.9	26731.9	31727.9	35657.2	33933.5
65°	2635.8	2700.2	3259.4	4176.6	5065.5	7789.0	15078.1	26507.8	34165.4	38509.5	36471.4
67.5°	1880.9	1935.0	2409.1	3274.8	3666.5	4524.5	10221.3	23642.6	33814.9	38617.7	36608.0
70°	1347.5	1378.5	1770.1	2550.8	2914.1	2718.3	5683.9	18082.4	29607.4	35659.8	33820.1
72.5°	943.0	953.3	1229.0	1942.7	2347.3	1984.0	2705.4	12055.8	22393.0	27989.3	26219.2
75°	639.0	651.9	827.1	1424.8	1883.5	1515.0	1432.6	6464.6	13145.7	15492.9	13887.7
77.5°	391.6	396.8	533.4	973.9	1409.4	1154.3	922.4	2738.9	5086.2	4993.4	4256.5
80°	221.6	221.6	340.1	605.5	961.1	744.6	646.7	1164.6	1610.4	1414.5	1247.1
82.5°	123.7	126.3	247.4	376.2	636.4	440.6	355.6	538.5	695.7	615.8	535.9
85°	51.5	56.7	152.0	177.8	304.0	219.0	144.3	226.7	257.7	229.3	167.5
87.5°	5.2	7.7	46.4	33.5	36.1	43.8	20.6	43.8	36.1	36.1	25.8
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°	5928.7	5928.7	5928.7	5928.7	5928.7	5928.7	5928.7	5928.7	5928.7	5928.7	5928.7
2.5°	5967.3	5928.7	5830.8	5717.4	5568.0	5495.8	5397.9	5330.9	5274.2	5279.4	5227.9
5°	6083.3	5985.4	5766.4	5493.3	5153.1	4910.9	4653.3	4475.5	4331.2	4300.3	4230.7
7.5°	6243.0	6088.4	5704.5	5212.4	4637.8	4202.4	3813.3	3563.4	3385.6	3328.9	3272.2
10°	6449.2	6225.0	5624.7	4859.4	4032.3	3478.4	3061.0	2865.1	2744.1	2702.8	2671.9
12.5°	6688.8	6382.2	5519.0	4429.1	3408.8	2875.5	2610.1	2512.2	2473.5	2460.6	2452.9
15°	6990.2	6578.0	5359.3	3919.0	2880.6	2507.0	2393.6	2380.8	2385.9	2380.8	2378.2
17.5°	7348.4	6791.8	5099.0	3393.3	2525.0	2318.9	2277.7	2288.0	2300.9	2298.3	2293.2
20°	7740.0	7003.1	4766.7	2927.0	2282.8	2184.9	2161.7	2172.1	2182.4	2177.2	2174.6
22.5°	8185.8	7229.9	4398.2	2563.7	2120.5	2061.3	2035.5	2038.1	2038.1	2027.8	2022.6
25°	8719.1	7479.8	4011.7	2306.0	1996.8	1950.5	1919.5	1909.2	1893.8	1862.9	1857.7
27.5°	9355.5	7745.2	3640.7	2125.7	1898.9	1855.1	1819.1	1793.3	1754.6	1703.1	1698.0
30°	10071.8	8067.3	3326.4	2012.3	1821.6	1777.8	1736.6	1698.0	1641.3	1576.9	1571.7
32.5°	10914.4	8412.5	3097.0	1937.6	1752.1	1705.7	1656.7	1610.4	1548.5	1484.1	1486.7
35°	11919.2	8829.9	2963.1	1886.1	1698.0	1636.1	1582.0	1530.5	1484.1	1427.4	1422.3
37.5°	13009.1	9273.1	2921.8	1860.3	1661.9	1566.6	1504.7	1468.6	1463.5	1430.0	1427.4
40°	14202.1	9798.7	2952.8	1844.8	1623.2	1499.6	1432.6	1424.8	1437.7	1378.5	1381.0
42.5°	15464.6	10422.2	3004.3	1826.8	1569.1	1432.6	1368.2	1368.2	1357.9	1275.4	1275.4
45°	16830.2	11141.1	3055.8	1783.0	1504.7	1365.6	1316.6	1298.6	1254.8	1174.9	1172.3
47.5°	18206.1	11872.8	3094.5	1703.1	1427.4	1308.9	1265.1	1223.9	1159.5	1087.3	1084.7
50°	19512.4	12529.9	3053.2	1584.6	1339.8	1254.8	1208.4	1151.7	1082.2	1033.2	1025.5
52.5°	20679.6	13099.3	2878.0	1445.5	1247.1	1198.1	1156.9	1097.6	1040.9	989.4	984.3
55°	21694.7	13560.5	2568.8	1314.1	1164.6	1149.2	1107.9	1033.2	955.9	912.1	907.0
57.5°	22668.7	13910.9	2182.4	1205.8	1089.9	1095.0	1033.2	966.2	894.1	847.7	842.5
60°	23964.7	14379.9	1790.7	1105.3	1010.0	1025.5	958.5	909.5	819.4	760.1	752.4
62.5°	26036.3	15109.0	1422.3	981.7	917.3	922.4	894.1	834.8	726.6	657.0	651.9
65°	27680.1	14841.1	1120.8	847.7	811.6	819.4	819.4	754.9	639.0	559.1	551.4
67.5°	27494.6	12707.7	894.1	716.3	711.1	716.3	734.3	680.2	566.8	502.4	492.1
70°	25327.7	10107.9	716.3	595.2	618.4	605.5	657.0	621.0	510.2	445.7	438.0
72.5°	20666.7	7281.4	546.2	492.1	474.1	494.7	592.6	559.1	425.1	353.0	345.3
75°	12076.4	3885.5	407.1	389.1	342.7	412.3	525.6	476.7	324.6	260.2	252.5
77.5°	3931.9	1355.3	298.9	286.0	255.1	332.4	448.3	401.9	265.4	206.1	198.4
80°	1053.8	409.7	203.5	188.1	164.9	247.4	355.6	319.5	190.7	134.0	131.4
82.5°	422.6	172.6	118.5	105.6	90.2	170.1	280.8	257.7	141.7	85.0	85.0
85°	136.6	56.7	43.8	33.5	41.2	105.6	167.5	175.2	100.5	43.8	33.5
87.5°	18.0	7.7	7.7	10.3	7.7	18.0	51.5	49.0	28.3	5.2	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)