

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: P885276

Luminaire Tested: **NAV-SB6C-727-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885276
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-727-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 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: 30082 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

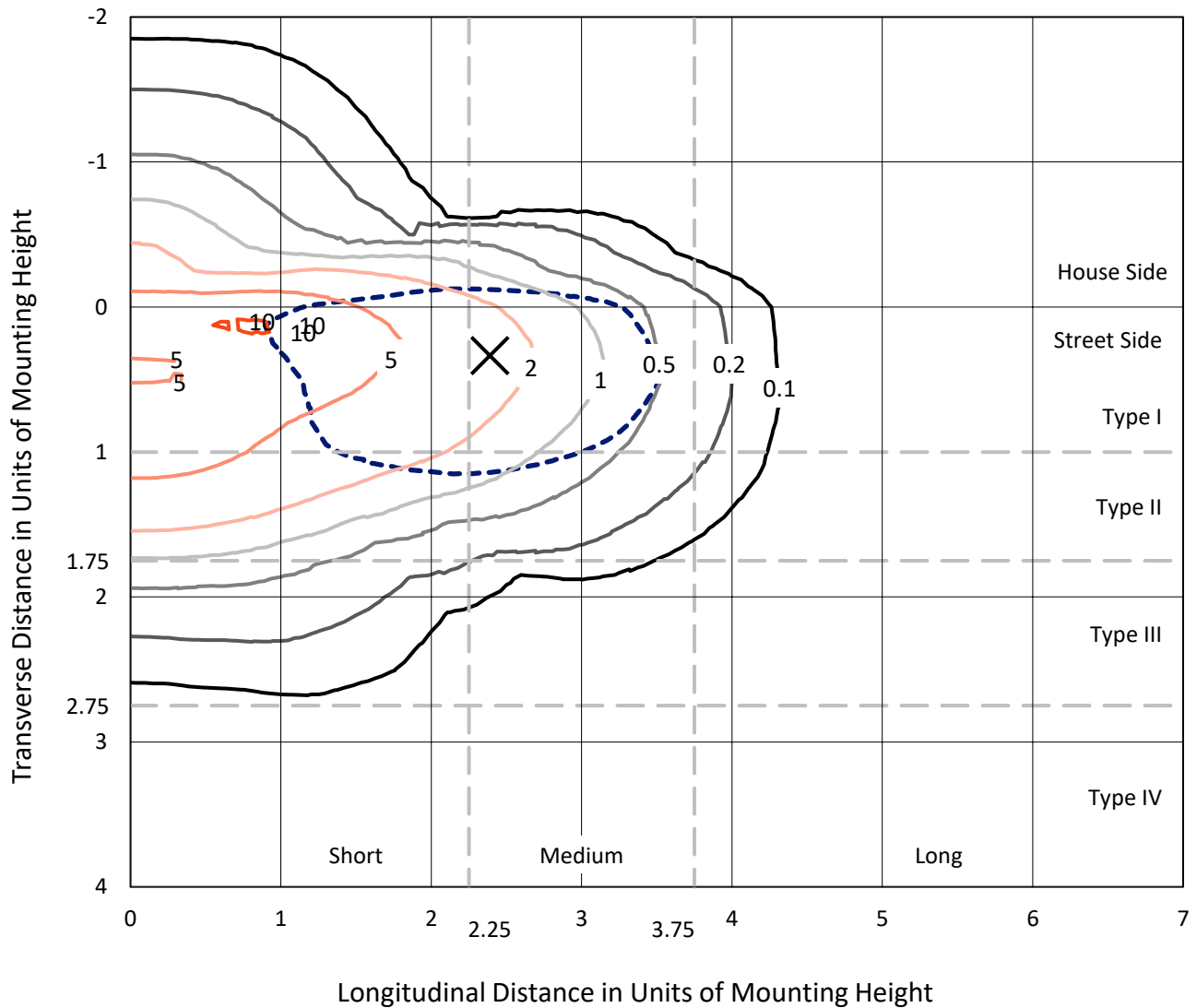
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

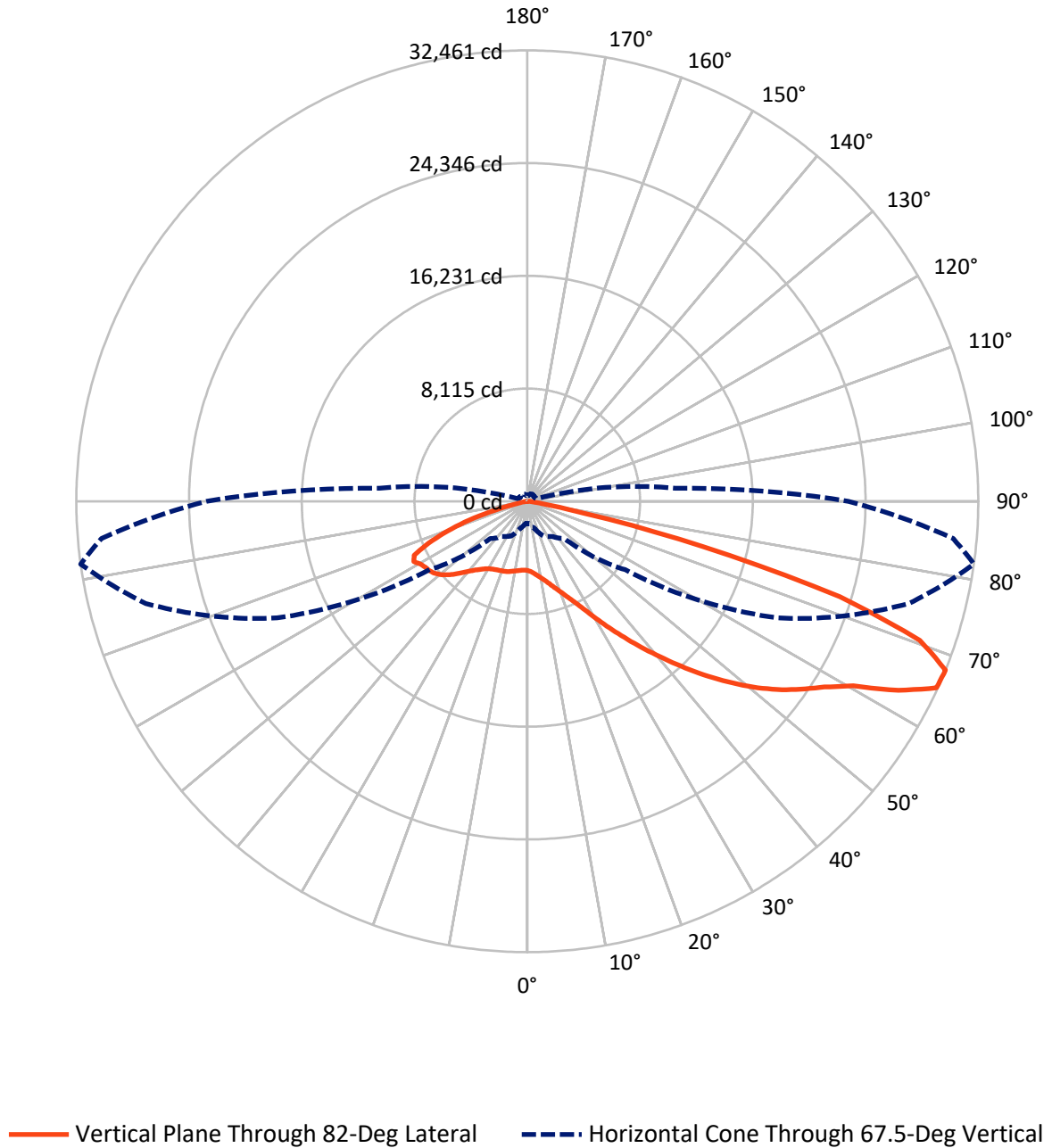
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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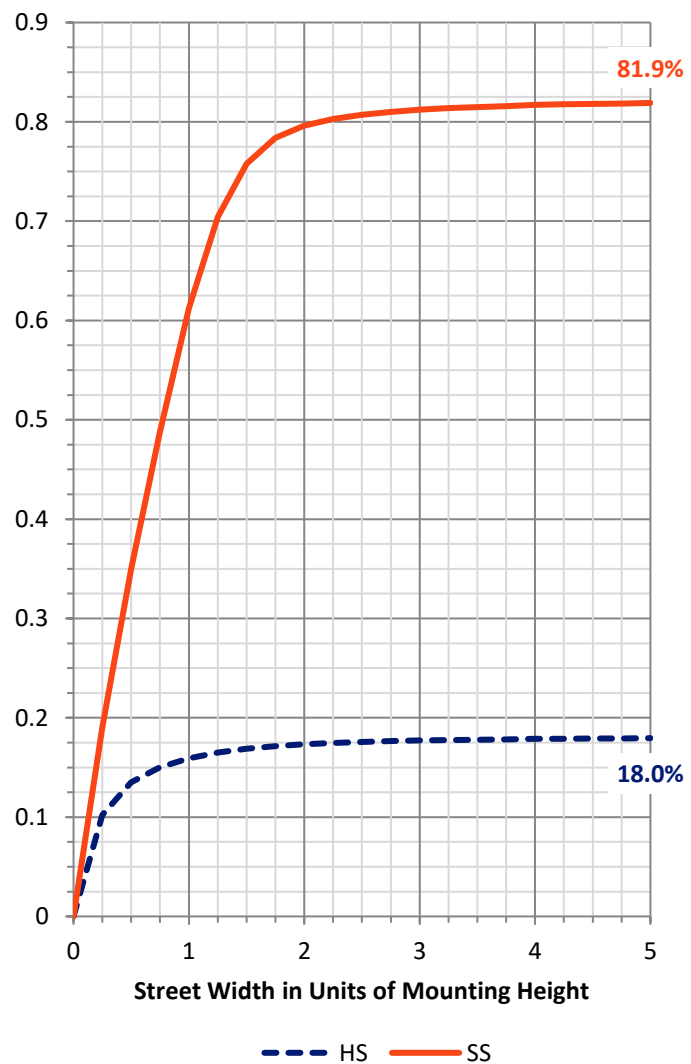
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5449.1	0.0	5449.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	24632.9	0.0	24632.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	30082.0	0.0	30082.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.0	1.5
10°-20°	1153.8	3.8
20°-30°	1848.0	6.1
30°-40°	3267.8	10.9
40°-50°	5725.5	19.0
50°-60°	7636.2	25.4
60°-70°	7108.9	23.6
70°-80°	2728.4	9.1
80°-90°	169.5	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°	30082.0	100.0
0°-180°	30082.0	100.0

Coefficient of Utilization



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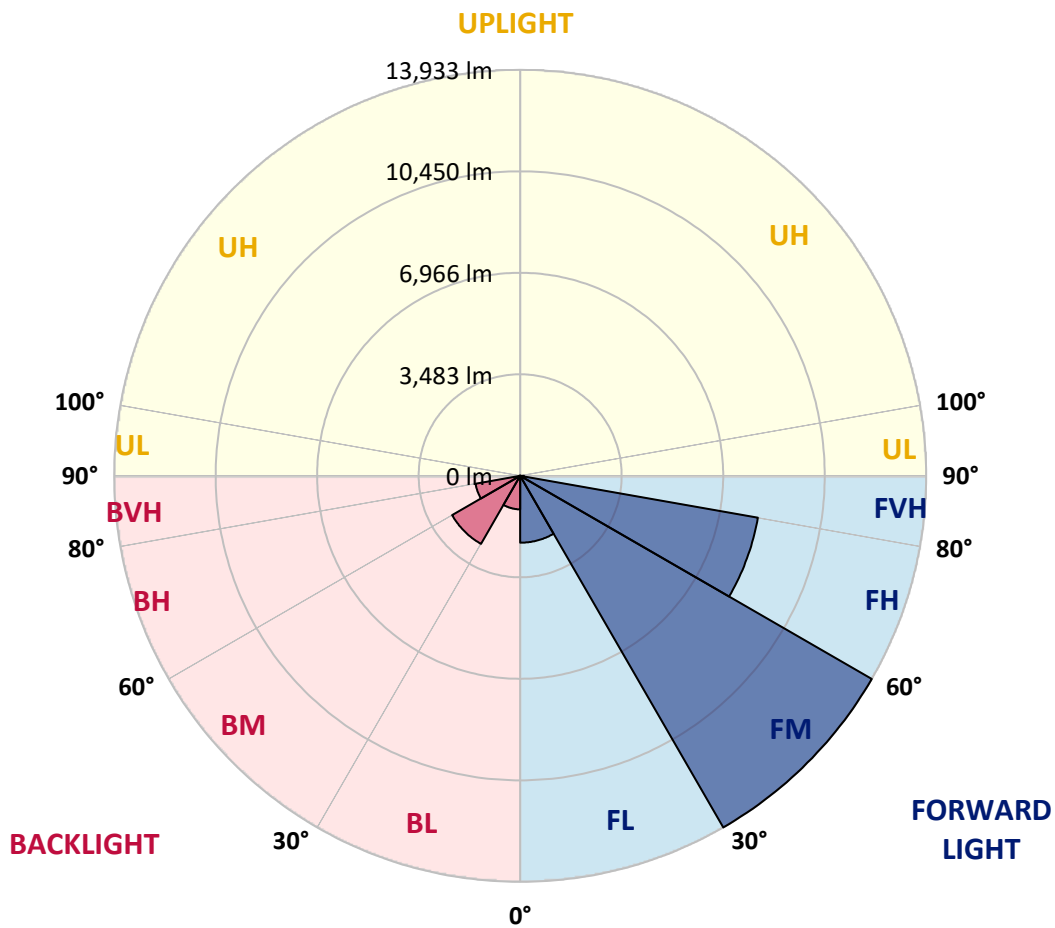
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2294.9	7.6			
FM (30°-60°)	13932.8	46.3			
FH (60°-80°)	8282.0	27.5			G4/12000
FVH (80°-90°)	123.2	0.4			G2/225
BL (0°-30°)	1150.8	3.8	B3/2500		
BM (30°-60°)	2696.7	9.0	B3/5000		
BH (60°-80°)	1555.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	46.3	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°	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6
2.5°	5267.3	5297.6	5280.3	5271.6	5256.5	5234.8	5217.5	5163.3	5107.0	5070.2	5057.2
5°	5373.4	5403.7	5401.6	5410.2	5421.1	5427.6	5423.2	5362.6	5282.5	5219.6	5182.8
7.5°	5282.5	5317.1	5345.3	5388.6	5464.4	5544.5	5583.5	5570.5	5488.2	5401.6	5356.1
10°	5024.7	5061.5	5128.7	5230.5	5390.7	5564.0	5709.1	5776.3	5724.3	5629.0	5566.2
12.5°	4552.6	4589.4	4721.5	4942.4	5211.0	5512.0	5789.3	5969.0	5982.0	5886.7	5813.1
15°	4021.9	4058.8	4199.5	4476.8	4886.1	5369.1	5832.6	6172.6	6287.4	6205.1	6116.3
17.5°	3692.7	3725.2	3831.3	4054.4	4481.1	5083.2	5817.4	6389.2	6651.3	6586.3	6480.2
20°	3593.1	3621.3	3671.1	3827.0	4182.2	4786.5	5717.8	6592.8	7043.3	7006.5	6887.3
22.5°	3699.2	3725.2	3740.4	3809.7	4032.8	4591.6	5592.2	6800.7	7498.1	7502.4	7357.3
25°	3944.0	3970.0	3952.6	3996.0	4093.4	4530.9	5544.5	7045.4	8069.9	8117.5	7952.9
27.5°	4346.8	4349.0	4307.8	4305.7	4320.8	4621.9	5594.3	7307.5	8791.1	8879.9	8676.3
30°	5154.7	5122.2	4964.1	4793.0	4715.0	4894.8	5732.9	7617.2	9642.3	9800.4	9544.8
32.5°	6400.0	6352.4	6062.2	5652.8	5241.3	5334.4	5982.0	7970.2	10569.2	10855.1	10543.2
35°	7751.5	7738.5	7435.3	6826.7	6107.6	5960.4	6387.0	8433.7	11580.7	12035.5	11665.1
37.5°	9007.7	9001.2	8827.9	8111.0	7236.0	6833.2	7036.8	9040.2	12663.6	13322.0	12884.5
40°	10155.6	10175.1	10001.8	9360.7	8479.2	7952.9	7920.4	9789.5	13867.8	14723.3	14203.5
42.5°	11147.5	11169.2	10993.7	10519.4	9707.2	9191.8	9005.5	10707.9	15043.8	16228.5	15613.5
45°	11821.1	11955.4	11929.4	11550.4	10967.8	10432.8	10309.3	11860.1	16384.5	17824.8	17103.5
47.5°	12011.7	12135.1	12330.1	12382.0	12026.8	11500.5	11647.8	13248.4	17740.3	19423.1	18602.3
50°	11541.7	11656.5	12061.5	12600.8	12847.7	12685.3	12949.5	14736.3	19128.6	21017.2	20072.9
52.5°	10614.7	10731.7	11242.8	12096.1	13103.3	13614.4	14255.5	16202.6	20473.6	22526.8	21465.5
55°	9274.1	9397.5	10053.8	11019.7	12615.9	13997.7	15344.9	17666.7	21705.9	23884.7	22721.7
57.5°	7450.4	7541.4	8223.6	9575.1	11390.1	13616.6	16148.4	19265.0	22866.8	25218.9	23967.0
60°	4855.8	4935.9	5728.6	7236.0	9358.5	12343.1	16308.7	21047.5	24408.9	26953.7	25645.6
62.5°	3229.2	3283.4	3753.4	4860.1	6590.6	9897.8	15370.9	22470.5	26670.0	29972.9	28523.9
65°	2215.6	2269.8	2739.8	3510.8	4258.0	6547.3	12674.4	22282.0	28718.9	32370.5	30657.3
67.5°	1581.1	1626.5	2025.0	2752.8	3082.0	3803.2	8591.8	19873.6	28424.3	32461.4	30772.1
70°	1132.7	1158.7	1487.9	2144.2	2449.6	2284.9	4777.8	15199.8	24887.5	29975.1	28428.7
72.5°	792.7	801.4	1033.1	1633.0	1973.1	1667.7	2274.1	10133.9	18823.2	23527.4	22039.5
75°	537.1	548.0	695.2	1197.7	1583.2	1273.5	1204.2	5434.1	11050.1	13023.1	11673.8
77.5°	329.2	333.5	448.3	818.7	1184.7	970.3	775.4	2302.3	4275.3	4197.4	3577.9
80°	186.3	186.3	285.9	509.0	807.9	625.9	543.6	979.0	1353.6	1189.0	1048.3
82.5°	104.0	106.1	207.9	316.2	535.0	370.4	298.9	452.7	584.8	517.6	450.5
85°	43.3	47.6	127.8	149.4	255.6	184.1	121.3	190.6	216.6	192.8	140.8
87.5°	4.3	6.5	39.0	28.2	30.3	36.8	17.3	36.8	30.3	30.3	21.7
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°	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6	4983.6
2.5°	5016.1	4983.6	4901.3	4806.0	4680.4	4619.7	4537.4	4481.1	4433.4	4437.8	4394.5
5°	5113.5	5031.2	4847.1	4617.5	4331.7	4128.1	3911.5	3762.0	3640.8	3614.8	3556.3
7.5°	5247.8	5117.9	4795.1	4381.5	3898.5	3532.5	3205.4	2995.3	2845.9	2798.2	2750.6
10°	5421.1	5232.6	4728.0	4084.8	3389.5	2923.9	2573.0	2408.4	2306.6	2272.0	2246.0
12.5°	5622.5	5364.8	4639.2	3723.1	2865.4	2417.1	2194.0	2111.7	2079.2	2068.4	2061.9
15°	5875.9	5529.4	4504.9	3294.2	2421.4	2107.4	2012.1	2001.2	2005.6	2001.2	1999.1
17.5°	6176.9	5709.1	4286.2	2852.4	2122.5	1949.2	1914.6	1923.3	1934.1	1931.9	1927.6
20°	6506.1	5886.7	4006.8	2460.4	1918.9	1836.6	1817.1	1825.8	1834.5	1830.1	1828.0
22.5°	6880.8	6077.3	3697.1	2155.0	1782.5	1732.7	1711.0	1713.2	1713.2	1704.5	1700.2
25°	7329.2	6287.4	3372.2	1938.4	1678.5	1639.5	1613.5	1604.9	1591.9	1565.9	1561.6
27.5°	7864.1	6510.5	3060.3	1786.8	1596.2	1559.4	1529.1	1507.4	1474.9	1431.6	1427.3
30°	8466.2	6781.2	2796.1	1691.5	1531.2	1494.4	1459.8	1427.3	1379.6	1325.5	1321.2
32.5°	9174.4	7071.4	2603.3	1628.7	1472.8	1433.8	1392.6	1353.6	1301.7	1247.5	1249.7
35°	10019.1	7422.3	2490.7	1585.4	1427.3	1375.3	1329.8	1286.5	1247.5	1199.9	1195.5
37.5°	10935.3	7794.8	2456.0	1563.7	1397.0	1316.8	1264.8	1234.5	1230.2	1202.0	1199.9
40°	11938.0	8236.6	2482.0	1550.7	1364.5	1260.5	1204.2	1197.7	1208.5	1158.7	1160.9
42.5°	12999.3	8760.8	2525.4	1535.6	1319.0	1204.2	1150.1	1150.1	1141.4	1072.1	1072.1
45°	14147.2	9365.0	2568.7	1498.8	1264.8	1147.9	1106.7	1091.6	1054.8	987.6	985.5
47.5°	15303.7	9980.1	2601.2	1431.6	1199.9	1100.2	1063.4	1028.8	974.6	914.0	911.8
50°	16401.8	10532.4	2566.5	1332.0	1126.2	1054.8	1015.8	968.1	909.6	868.5	862.0
52.5°	17382.9	11011.1	2419.2	1215.0	1048.3	1007.1	972.5	922.6	875.0	831.7	827.3
55°	18236.3	11398.8	2159.3	1104.6	979.0	966.0	931.3	868.5	803.5	766.7	762.4
57.5°	19055.0	11693.3	1834.5	1013.6	916.1	920.5	868.5	812.2	751.5	712.6	708.2
60°	20144.4	12087.5	1505.3	929.1	849.0	862.0	805.7	764.5	688.7	638.9	632.4
62.5°	21885.7	12700.4	1195.5	825.2	771.0	775.4	751.5	701.7	610.8	552.3	548.0
65°	23267.5	12475.2	942.1	712.6	682.2	688.7	688.7	634.6	537.1	470.0	463.5
67.5°	23111.5	10681.9	751.5	602.1	597.8	602.1	617.3	571.8	476.5	422.3	413.7
70°	21290.1	8496.5	602.1	500.3	519.8	509.0	552.3	522.0	428.8	374.7	368.2
72.5°	17372.1	6120.6	459.2	413.7	398.5	415.8	498.1	470.0	357.4	296.7	290.2
75°	10151.2	3266.1	342.2	327.0	288.1	346.5	441.8	400.7	272.9	218.7	212.3
77.5°	3305.1	1139.2	251.2	240.4	214.4	279.4	376.9	337.9	223.1	173.3	166.8
80°	885.8	344.4	171.1	158.1	138.6	207.9	298.9	268.6	160.3	112.6	110.5
82.5°	355.2	145.1	99.6	88.8	75.8	142.9	236.1	216.6	119.1	71.5	71.5
85°	114.8	47.6	36.8	28.2	34.7	88.8	140.8	147.3	84.5	36.8	28.2
87.5°	15.2	6.5	6.5	8.7	6.5	15.2	43.3	41.2	23.8	4.3	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)