

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: P970294

Luminaire Tested: **NAV-SB6B-727-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970294  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6B-727-U-SL3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

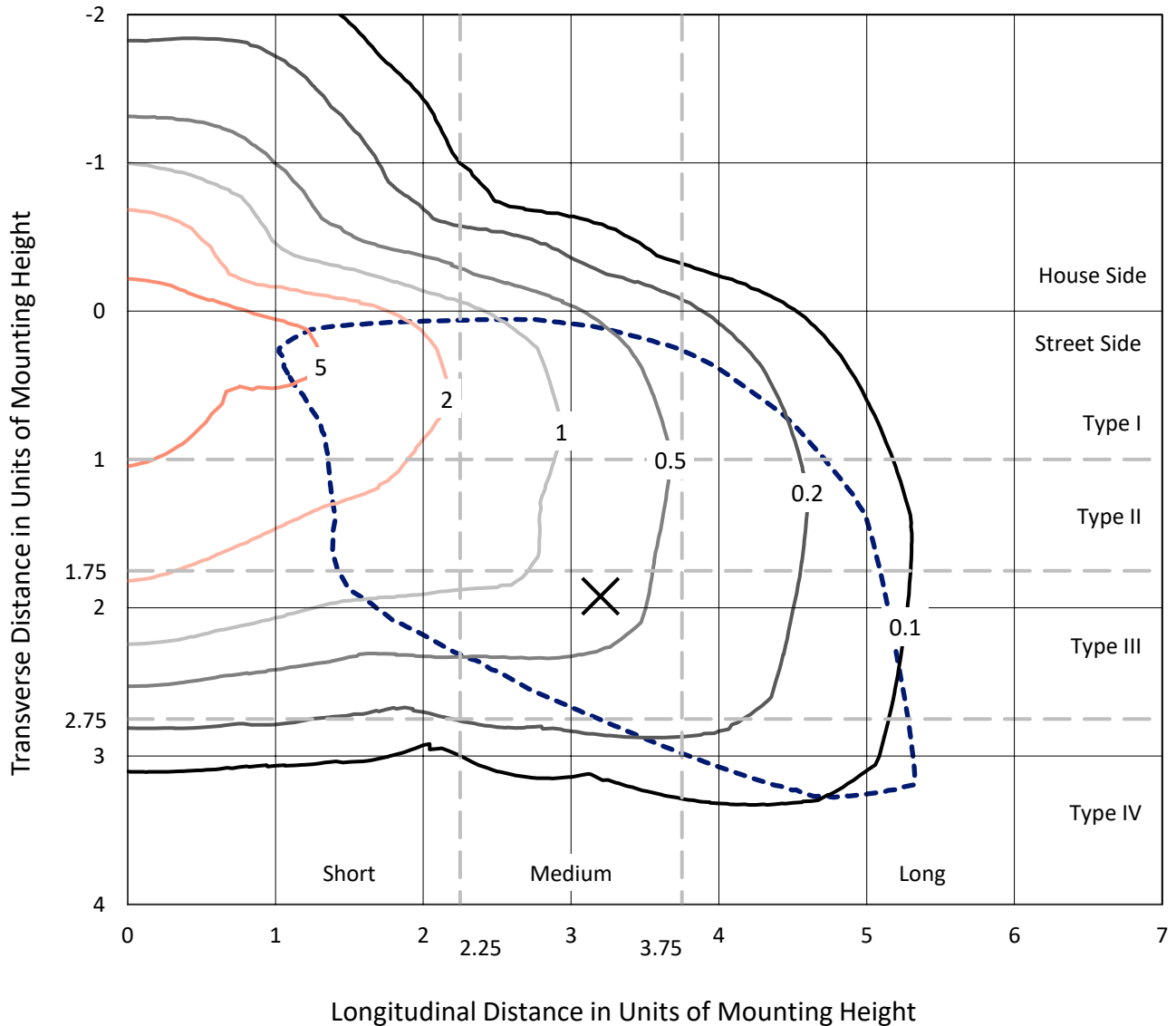
Lumens per Lamp: N/A  
Luminaire Lumens: 31728.9 lumens  
Efficiency: N/A  
Efficacy: 144.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): 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

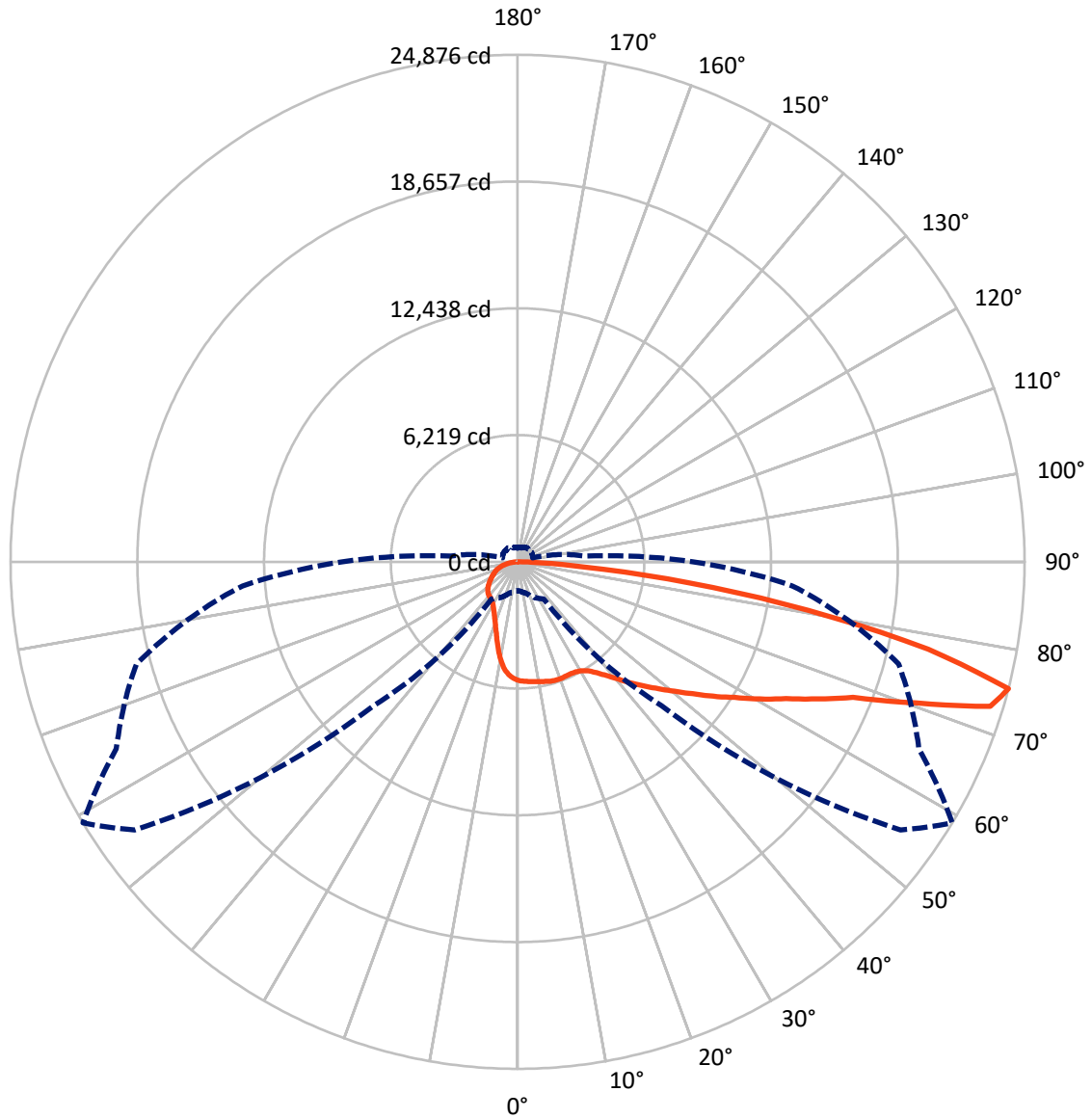
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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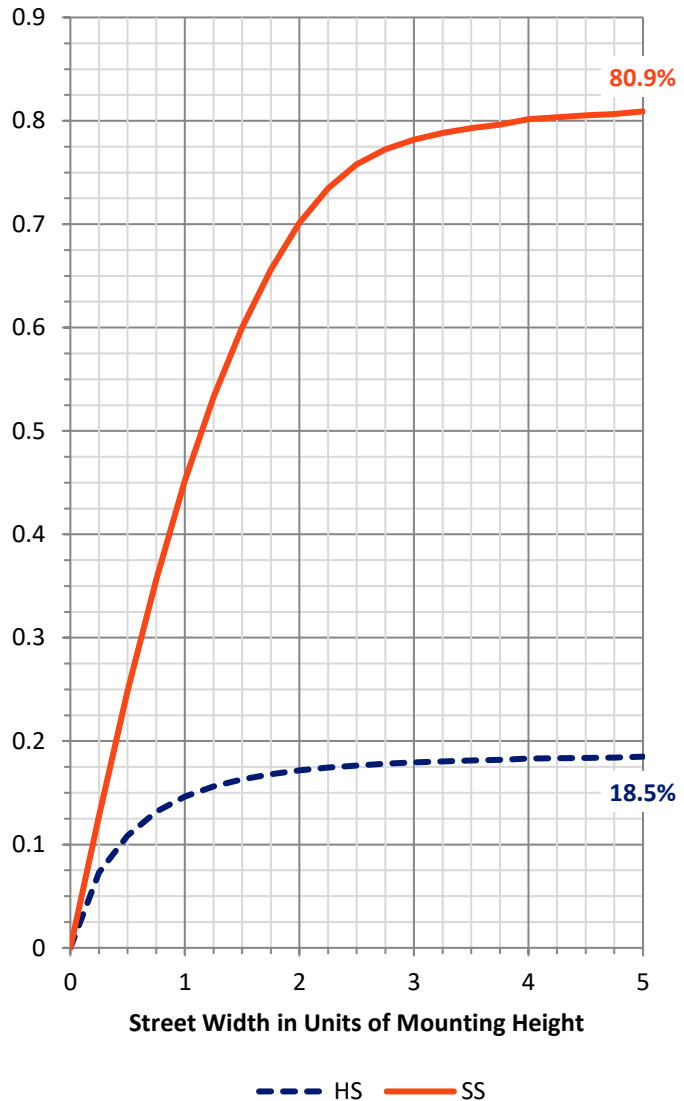
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5951.0	0.0	5951.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	25777.9	0.0	25777.9
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	31728.9	0.0	31728.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	522.2	1.6
10°-20°	1334.8	4.2
20°-30°	2027.4	6.4
30°-40°	3013.7	9.5
40°-50°	4481.9	14.1
50°-60°	6083.6	19.2
60°-70°	7427.1	23.4
70°-80°	5828.7	18.4
80°-90°	1009.7	3.2
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°	31728.9	100.0
0°-180°	31728.9	100.0

**Coefficient of Utilization**



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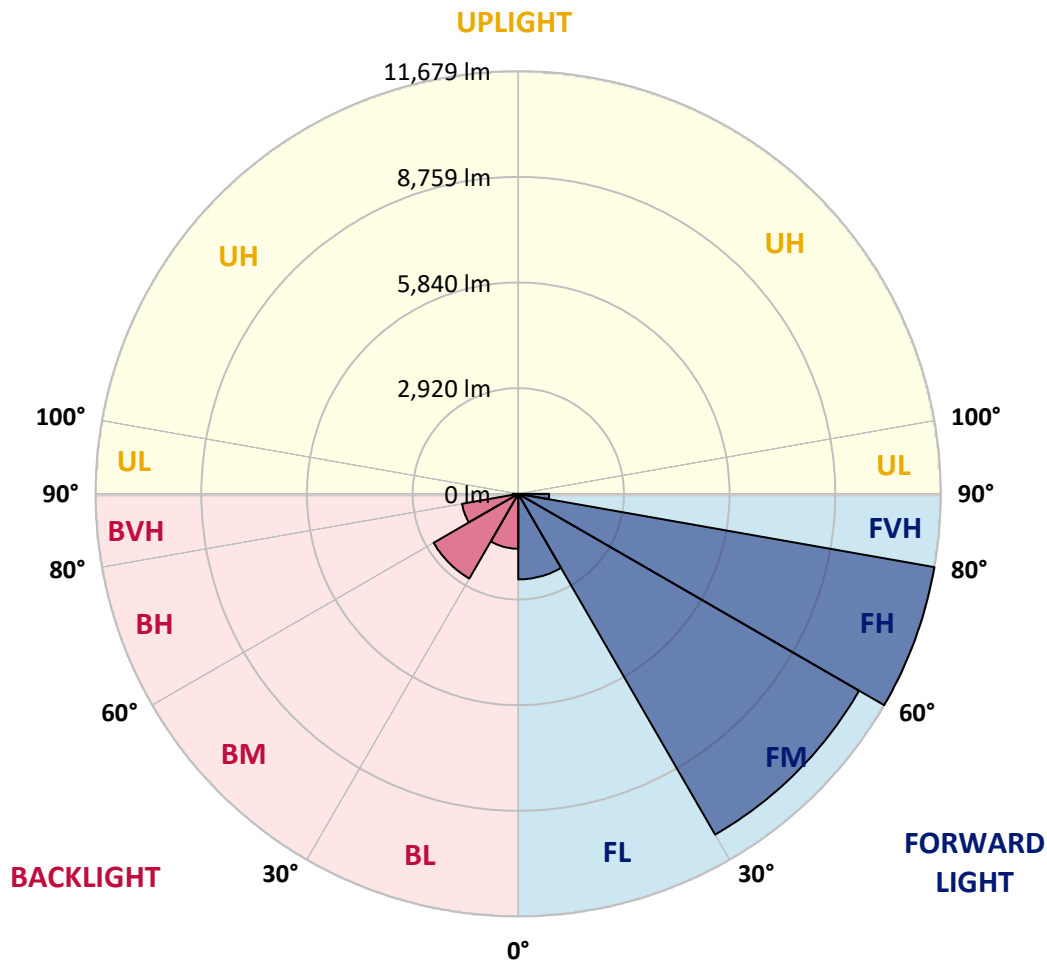
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2365.7	7.5			
FM (30°-60°)	10878.0	34.3			
FH (60°-80°)	11679.1	36.8			G4/12000
FVH (80°-90°)	855.1	2.7			G5
BL (0°-30°)	1518.6	4.8	B3/2500		
BM (30°-60°)	2701.1	8.5	B3/5000		
BH (60°-80°)	1576.6	5.0	B3/2500		G3/2500
BVH (80°-90°)	154.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5823.7	5823.7	5823.7	5823.7	5823.7	5823.7	5823.7	5823.7	5823.7	5823.7	5823.7
2.5°	5873.2	5852.7	5873.2	5864.7	5861.4	5854.5	5856.2	5868.1	5861.4	5869.9	5840.9
5°	5834.0	5822.1	5842.5	5837.4	5859.6	5863.0	5885.2	5898.9	5907.4	5909.1	5886.9
7.5°	5769.1	5757.2	5786.2	5810.1	5857.9	5871.5	5917.6	5939.9	5951.8	5972.3	5939.9
10°	5531.9	5526.8	5598.4	5689.0	5801.6	5871.5	5941.5	5979.1	5997.9	6052.5	6014.9
12.5°	5112.0	5118.8	5212.7	5386.8	5612.1	5837.4	5968.9	6023.5	6052.5	6120.8	6103.7
15°	4710.9	4709.2	4811.6	4997.7	5313.4	5687.2	5982.5	6076.4	6125.9	6226.6	6212.9
17.5°	4478.7	4472.0	4543.6	4685.3	4978.8	5456.8	5948.4	6105.4	6211.2	6337.6	6325.6
20°	4436.1	4422.5	4460.0	4530.0	4738.2	5204.1	5859.6	6105.4	6279.5	6443.4	6436.5
22.5°	4591.4	4569.2	4553.9	4545.4	4637.5	4996.0	5758.9	6084.9	6380.2	6595.3	6583.3
25°	4903.8	4869.7	4791.2	4714.3	4687.0	4902.1	5670.2	6079.8	6530.4	6800.1	6755.7
27.5°	5409.0	5366.3	5207.6	5023.2	4857.7	4949.8	5630.9	6110.5	6695.9	7016.8	6928.1
30°	6035.4	5989.3	5789.6	5506.3	5209.3	5127.4	5680.3	6200.9	6907.6	7305.3	7131.2
32.5°	6597.0	6545.8	6375.1	6086.7	5685.5	5434.7	5837.4	6373.3	7240.5	7706.5	7436.8
35°	7095.4	7035.6	6882.1	6615.8	6269.2	5866.5	6120.8	6678.9	7713.2	8358.5	7851.5
37.5°	7583.6	7513.6	7346.3	7064.6	6822.3	6441.6	6511.6	7071.5	8341.3	9150.4	8401.1
40°	8129.7	8029.0	7825.9	7547.7	7312.1	7115.9	7025.4	7552.8	8979.7	10034.5	9087.2
42.5°	8658.8	8563.3	8320.8	8083.7	7788.4	7732.0	7621.1	8116.1	9677.8	11005.7	9783.6
45°	9228.9	9114.6	8820.9	8520.6	8334.6	8141.7	8197.9	8679.3	10362.2	11995.7	10514.1
47.5°	9763.1	9635.2	9288.7	8954.1	8851.7	8486.5	8727.2	9298.9	11074.0	12999.4	11237.9
50°	10051.7	9925.3	9636.8	9334.8	9254.5	8911.5	9300.6	9979.9	11819.9	13999.6	11932.5
52.5°	10292.3	10155.7	9778.5	9611.2	9587.3	9374.0	10007.3	10758.3	12565.8	14883.7	12603.4
55°	10548.3	10396.4	9915.0	9764.9	9874.1	9892.9	10845.3	11640.7	13354.4	15745.6	13236.6
57.5°	10843.6	10650.8	10046.5	9894.6	10154.1	10500.5	11808.0	12555.5	14129.3	16544.5	13799.9
60°	11121.9	10927.2	10299.1	10101.2	10456.1	11205.5	12912.3	13663.4	15006.6	17256.2	14332.4
62.5°	11176.4	11016.0	10500.5	10498.9	10865.8	12028.2	14219.7	14781.3	15773.0	17959.4	14810.3
65°	10230.8	10130.2	9824.6	10483.5	11452.9	13212.7	15675.7	16211.6	16747.6	18573.9	15230.2
67.5°	7786.6	7800.2	7778.1	9049.7	10978.5	14914.5	17783.6	17742.6	17950.9	19263.4	15713.2
70°	3560.4	3640.7	4163.0	6247.1	8795.4	15110.8	21269.1	20738.2	19461.5	20156.2	16131.4
72.5°	1923.6	1985.0	2198.4	3026.2	5287.8	13434.6	23873.7	24250.9	21470.5	20757.0	15672.2
75°	1411.5	1445.7	1594.2	1923.6	2220.6	9985.0	22940.0	24875.6	21721.4	19355.7	13533.6
77.5°	1056.6	1071.9	1193.1	1524.2	1136.7	5263.9	18329.9	20601.7	18594.4	15902.7	9997.0
80°	766.4	783.4	873.9	1143.6	797.1	1925.4	12586.3	14460.4	12734.8	10136.9	4982.3
82.5°	529.1	536.0	575.2	778.3	556.5	747.6	7141.5	8479.6	7109.0	3557.1	1345.0
85°	319.2	327.7	344.8	454.0	315.8	355.1	3082.6	3188.4	2125.0	850.0	418.2
87.5°	131.4	139.9	153.6	191.2	124.6	99.0	508.6	638.4	397.7	249.2	129.8
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°	5823.7	5823.7	5823.7	5823.7	5823.7	5823.7	5823.7	5823.7	5823.7	5823.7	5823.7
2.5°	5832.2	5820.4	5788.0	5743.6	5702.6	5651.3	5629.2	5610.4	5593.3	5560.9	5545.6
5°	5868.1	5835.7	5748.7	5636.0	5508.0	5368.0	5231.5	5137.6	5057.3	4997.7	4948.2
7.5°	5922.8	5861.4	5702.6	5472.2	5178.6	4878.2	4606.8	4414.0	4268.8	4215.9	4123.8
10°	5979.1	5905.7	5629.2	5223.0	4716.0	4253.4	3893.4	3695.3	3579.3	3541.7	3483.7
12.5°	6045.7	5938.1	5514.8	4876.4	4198.8	3691.9	3377.9	3261.8	3202.0	3181.6	3186.7
15°	6142.9	5965.4	5342.4	4443.0	3705.6	3282.3	3079.2	2998.9	2968.2	2966.5	2973.3
17.5°	6216.3	5970.5	5074.5	3978.6	3326.6	3034.8	2867.5	2836.8	2857.3	2887.9	2899.9
20°	6298.3	5924.5	4722.9	3555.3	3060.3	2818.0	2748.0	2768.5	2818.0	2862.4	2877.8
22.5°	6356.3	5840.9	4297.8	3226.0	2829.9	2693.4	2690.0	2732.6	2760.0	2782.2	2794.1
25°	6407.5	5699.2	3847.2	2949.4	2640.5	2618.3	2655.9	2642.2	2623.4	2642.2	2654.1
27.5°	6445.1	5475.5	3444.4	2707.0	2507.4	2567.1	2544.9	2514.2	2512.5	2522.7	2539.7
30°	6433.1	5176.9	3113.3	2476.6	2413.5	2471.5	2418.6	2413.5	2408.3	2413.5	2432.2
32.5°	6433.1	4837.2	2858.9	2317.9	2353.7	2331.6	2326.4	2314.4	2294.1	2292.3	2314.4
35°	6469.0	4497.5	2640.5	2232.6	2304.2	2251.3	2254.8	2225.7	2183.0	2162.5	2183.0
37.5°	6542.4	4224.4	2423.7	2191.6	2217.2	2215.5	2201.8	2152.3	2077.3	2012.4	2034.5
40°	6719.9	4144.2	2275.2	2172.8	2176.3	2196.7	2160.9	2065.3	1894.6	1788.7	1802.5
42.5°	6998.1	4279.1	2242.8	2126.8	2148.9	2169.4	2099.4	1877.5	1756.3	1693.2	1693.2
45°	7351.4	4514.6	2312.8	2060.1	2084.0	2119.9	1911.6	1805.8	1751.2	1753.0	1761.5
47.5°	7798.6	4762.2	2442.5	2002.1	1990.1	2010.6	1787.1	1722.2	1647.1	1665.9	1713.7
50°	8315.7	5013.0	2565.4	1923.6	1886.1	1819.5	1706.8	1645.4	1549.8	1505.4	1517.4
52.5°	8875.6	5255.4	2614.9	1828.0	1773.5	1696.6	1652.2	1577.2	1461.0	1387.6	1386.0
55°	9406.4	5475.5	2560.2	1713.7	1660.8	1601.0	1594.2	1548.2	1423.5	1321.1	1321.1
57.5°	9908.3	5659.9	2423.7	1597.6	1546.4	1510.5	1556.7	1534.4	1377.4	1246.0	1239.1
60°	10333.2	5786.2	2225.7	1479.8	1444.0	1425.3	1495.2	1488.4	1312.6	1165.7	1160.6
62.5°	10671.2	5835.7	2007.3	1367.1	1358.6	1324.5	1409.9	1409.9	1230.6	1087.2	1082.1
65°	10935.7	5788.0	1785.3	1256.2	1273.4	1222.1	1305.7	1295.5	1143.6	1017.3	1010.4
67.5°	11169.6	5630.9	1539.6	1147.0	1186.2	1121.4	1196.5	1172.6	1048.0	947.3	940.4
70°	11273.8	5265.6	1259.6	1037.8	1085.6	1022.4	1087.2	1042.8	940.4	872.2	858.5
72.5°	10437.4	4376.3	991.7	923.4	964.3	913.2	969.4	918.3	824.4	793.7	768.0
75°	8634.9	3284.0	763.0	798.8	829.5	790.3	827.8	790.3	704.9	727.1	664.0
77.5°	6271.0	2217.2	583.7	667.4	681.0	660.5	693.0	650.3	573.5	568.4	542.7
80°	3118.5	1298.9	457.5	527.5	522.3	508.6	546.2	525.7	460.8	488.2	483.1
82.5°	902.9	556.5	332.8	370.4	360.2	363.6	390.8	401.1	600.9	595.7	609.4
85°	283.3	218.4	199.7	206.5	196.3	201.4	230.4	457.5	423.3	247.5	267.9
87.5°	73.4	75.1	49.5	52.9	54.6	64.9	73.4	278.2	133.1	87.0	92.1
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)