

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: STREETWORKS

Report Number: P510268

Luminaire Tested: **VERD-M-CA4-240-730-U-T2-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510268  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-240-730-U-T2-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 3000K, 1090mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

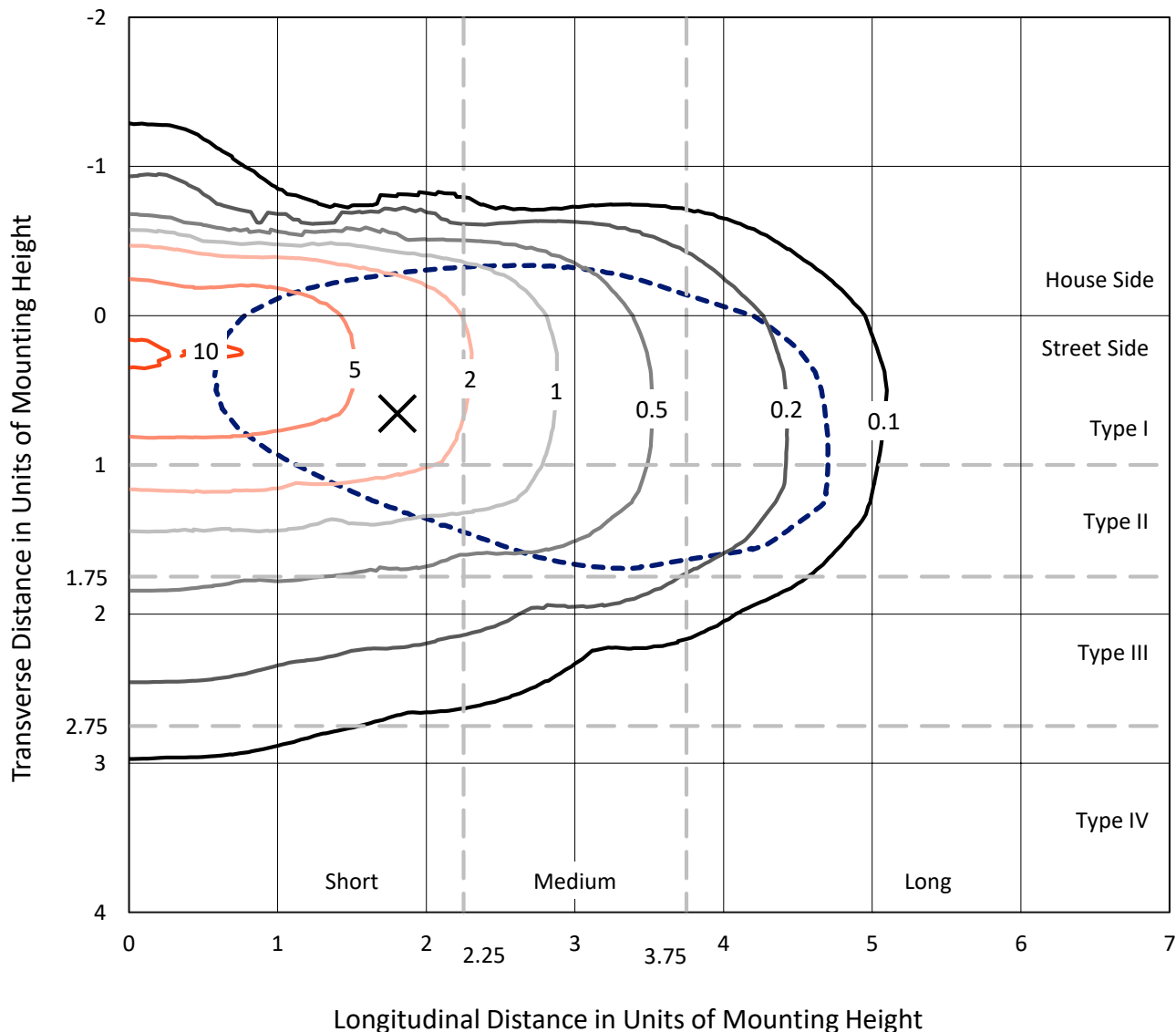
Lumens per Lamp: N/A  
Luminaire Lumens: 30044 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 242.3  
Input Voltage (V): NR  
Input Current (Ain): 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



REPORT NUMBER: P510268  
 CATALOG NUMBER: VERD-M-CA4-240-730-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

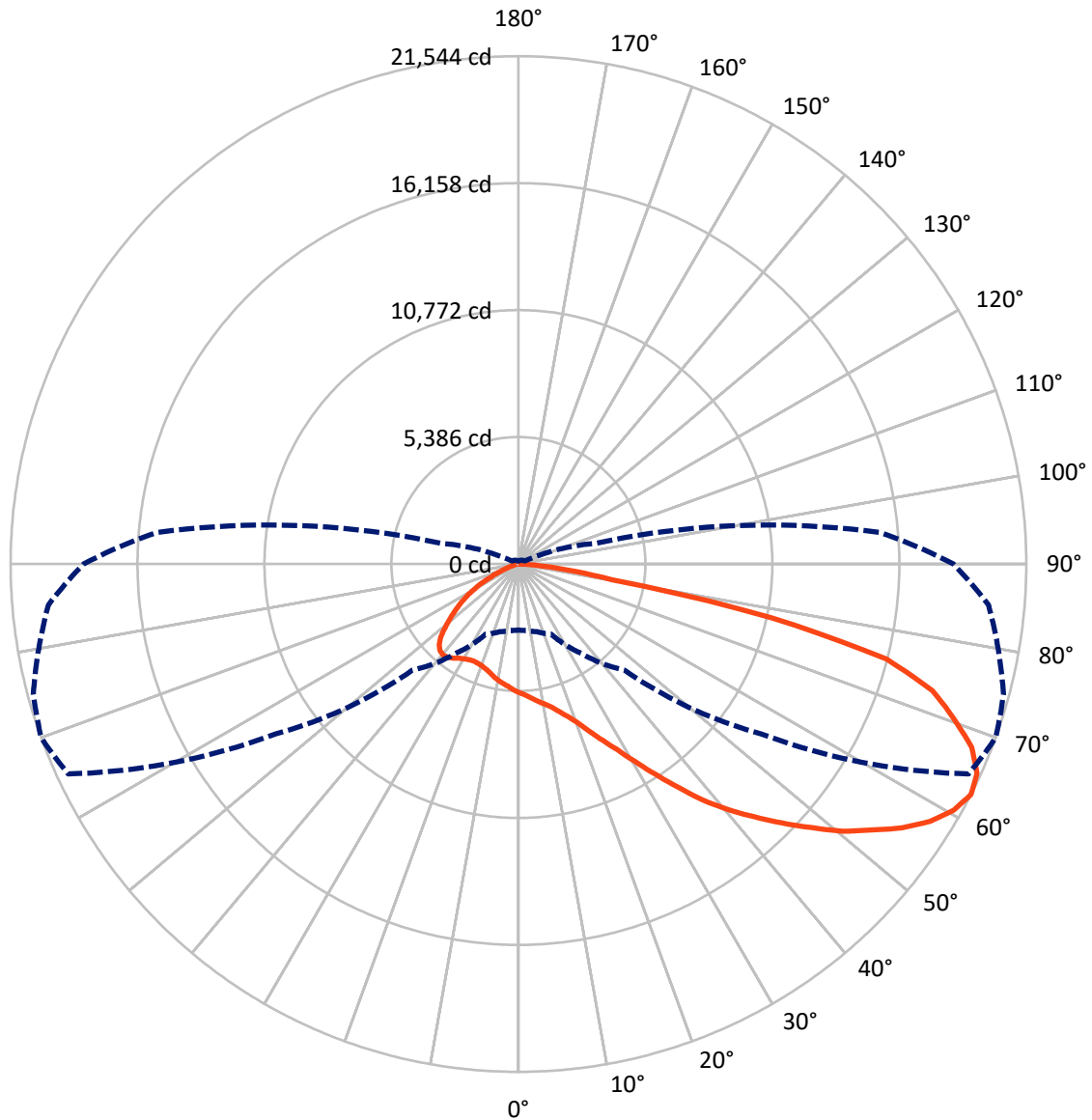
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P510268  
CATALOG NUMBER: VERD-M-CA4-240-730-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P510268  
 CATALOG NUMBER: VERD-M-CA4-240-730-U-T2-HSS

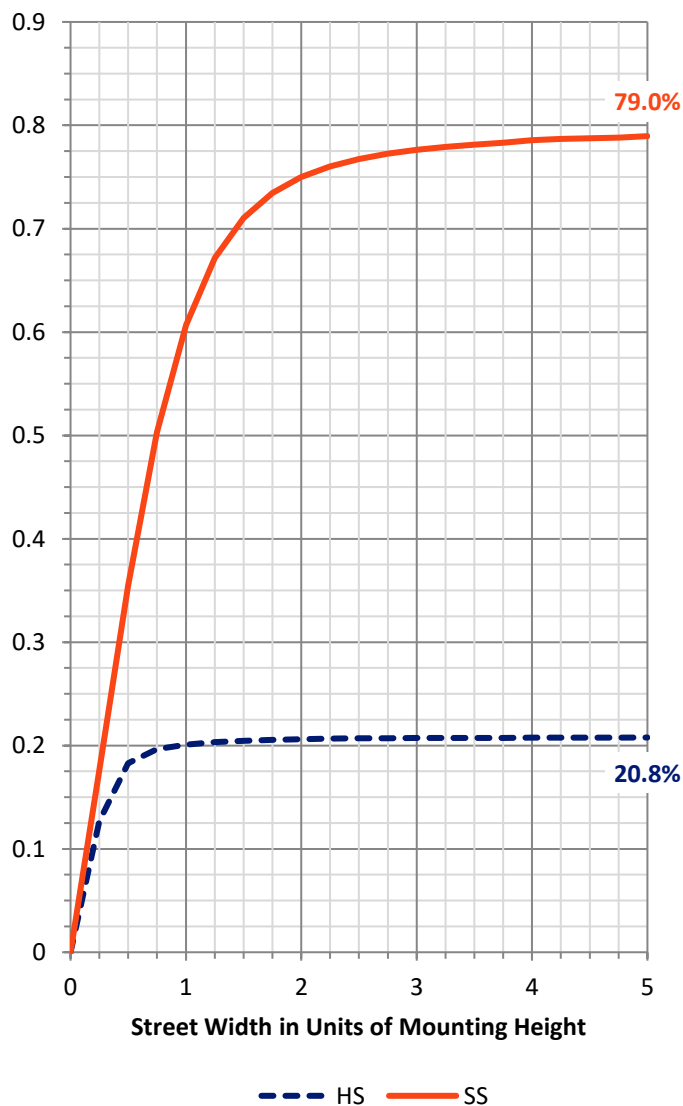
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6317.9	0.0	6317.9
	% Fixture	21.0	0.0	21.0
<b>Street Side</b>	Lumens	23726.1	0.0	23726.1
	% Fixture	79.0	0.0	79.0
<b>Total</b>	Lumens	30044.0	0.0	30044.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	518.6	1.7
10°-20°	1547.6	5.2
20°-30°	2623.6	8.7
30°-40°	3858.1	12.8
40°-50°	5137.8	17.1
50°-60°	6010.2	20.0
60°-70°	6044.8	20.1
70°-80°	3826.5	12.7
80°-90°	476.8	1.6
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°	30044.0	100.0
0°-180°	30044.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P510268

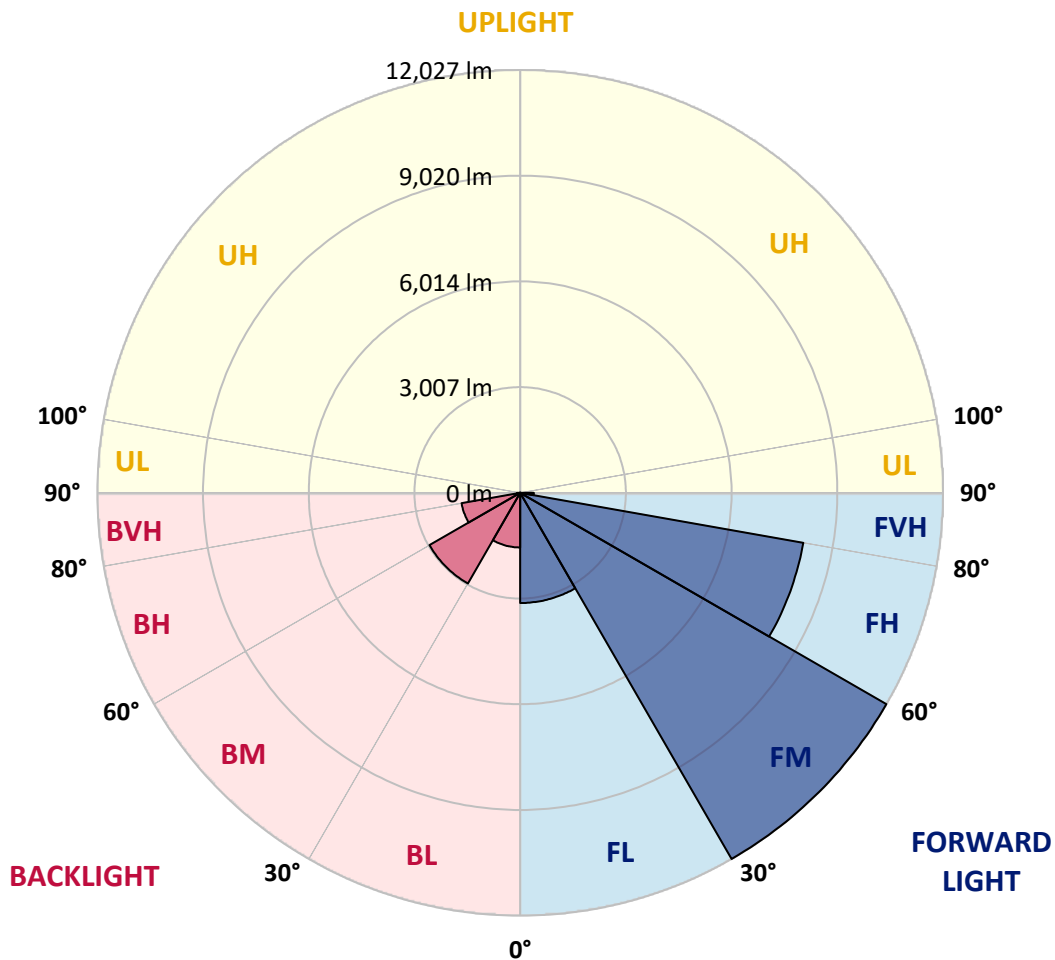
CATALOG NUMBER: VERD-M-CA4-240-730-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3134.3	10.4			
FM (30°-60°)	12027.2	40.0			
FH (60°-80°)	8178.0	27.2			G4/12000
FVH (80°-90°)	386.6	1.3			G3/500
BL (0°-30°)	1555.5	5.2	B3/2500		
BM (30°-60°)	2979.0	9.9	B3/5000		
BH (60°-80°)	1693.3	5.6	B3/2500		G3/2500
BVH (80°-90°)	90.1	0.3			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 Short





REPORT NUMBER: P510268

CATALOG NUMBER: VERD-M-CA4-240-730-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	5461.9	5461.9	5461.9	5461.9	5461.9	5461.9	5461.9	5461.9	5461.9	5461.9	5461.9
2.5°	5761.7	5812.1	5773.5	5758.7	5770.6	5711.2	5663.7	5595.5	5562.8	5539.1	5500.5
5°	6054.0	6137.1	6086.6	6055.5	6051.0	5942.7	5878.9	5785.4	5712.7	5648.9	5551.0
7.5°	6362.6	6411.6	6392.3	6356.7	6332.9	6200.9	6088.1	5956.0	5875.9	5791.3	5626.6
10°	6632.7	6692.0	6672.7	6608.9	6586.7	6451.6	6322.5	6143.0	6033.2	5927.8	5700.8
12.5°	6911.6	6978.4	6938.3	6874.5	6855.2	6718.7	6585.2	6367.1	6230.5	6111.8	5797.3
15°	7168.3	7229.2	7201.0	7128.3	7109.0	6993.2	6846.3	6643.0	6494.7	6337.4	5933.8
17.5°	7373.1	7433.9	7398.3	7364.2	7358.2	7244.0	7156.4	6948.7	6807.8	6594.1	6143.0
20°	7523.0	7585.3	7567.5	7583.8	7646.1	7561.5	7508.1	7333.0	7189.1	6957.6	6444.2
22.5°	7641.7	7721.8	7793.0	7825.7	7941.4	7935.5	7923.6	7819.7	7706.9	7466.6	6803.3
25°	7653.5	7745.5	7886.5	8039.3	8250.0	8350.9	8425.1	8408.8	8276.7	8039.3	7300.4
27.5°	7671.3	7766.3	7911.7	8174.3	8551.2	8787.2	8910.3	8986.0	8908.8	8750.1	7865.7
30°	7632.8	7730.7	7913.2	8248.5	8757.5	9195.2	9414.8	9695.3	9704.2	9570.6	8718.9
32.5°	7457.7	7586.8	7807.8	8257.4	8957.8	9621.1	9959.4	10498.0	10615.2	10515.8	9598.8
35°	7165.4	7282.6	7598.6	8178.8	9079.5	9975.7	10594.5	11434.3	11607.9	11602.0	10634.5
37.5°	6841.9	6960.6	7316.7	7993.3	9158.1	10291.8	11153.9	12363.2	12708.9	12636.2	11612.4
40°	6484.3	6608.9	7019.9	7760.4	9119.5	10573.7	11745.9	13263.8	13692.7	13701.6	12547.2
42.5°	6068.8	6171.2	6583.7	7438.4	8991.9	10781.4	12296.4	14212.0	14663.1	14637.9	13428.5
45°	5671.1	5778.0	6138.6	6939.8	8696.7	10897.2	12836.5	15172.0	15666.1	15586.0	14407.9
47.5°	5190.4	5343.2	5754.2	6521.4	8241.1	10888.2	13308.4	16154.3	16709.3	16644.0	15253.6
50°	3994.4	4084.9	5015.3	6089.6	7623.9	10680.5	13769.8	17118.8	17820.6	17693.0	16155.8
52.5°	3598.3	3679.9	3979.6	5571.7	7063.0	10230.9	14154.1	18222.8	18748.0	18648.6	17077.3
55°	3400.9	3445.4	3627.9	4595.4	6515.4	9500.9	14410.8	19203.6	19749.6	19530.0	17939.3
57.5°	3153.1	3208.0	3420.2	3924.7	5841.8	8380.6	14351.5	20087.9	20592.4	20255.6	18699.1
60°	2963.2	3004.7	3203.6	3533.0	5145.9	7220.3	13744.6	20955.9	21209.7	20877.3	19455.8
62.5°	2802.9	2826.7	2966.2	3279.2	4616.2	6373.0	12560.5	21071.7	21543.5	21303.2	20019.7
65°	2604.1	2610.0	2774.7	3019.6	4126.5	5864.0	11544.1	20478.2	21377.4	21297.2	20222.9
67.5°	2371.1	2383.0	2549.2	2736.2	3537.4	5322.5	9960.9	20159.1	20731.9	20681.4	19820.8
70°	2078.8	2102.6	2255.4	2397.8	2995.8	4672.5	7928.0	18897.9	19577.5	19503.3	18495.8
72.5°	1796.9	1783.5	1926.0	2067.0	2495.8	3901.0	6009.5	16727.1	18363.7	18292.5	16774.6
75°	1476.4	1467.5	1614.4	1747.9	2046.2	3151.6	4227.4	12370.6	16135.0	16354.6	14464.2
77.5°	909.6	917.0	1001.6	1090.6	1385.9	2354.8	2697.6	6881.9	10961.0	12998.2	11351.2
80°	658.8	658.8	721.1	774.6	917.0	1434.9	1342.9	2869.7	4006.3	6273.6	7079.3
82.5°	427.3	409.5	448.1	494.1	510.4	621.7	614.3	1439.3	2041.7	2457.2	2948.3
85°	222.6	246.3	148.4	209.2	221.1	206.3	212.2	675.1	906.6	1161.8	1279.1
87.5°	34.1	26.7	35.6	49.0	56.4	47.5	41.5	78.6	121.7	161.7	191.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P510268

CATALOG NUMBER: VERD-M-CA4-240-730-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5461.9	5461.9	5461.9	5461.9	5461.9	5461.9	5461.9	5461.9	5461.9	5461.9	5461.9
2.5°	5475.3	5467.9	5399.6	5300.2	5218.6	5150.3	5105.8	5076.1	5108.8	5049.4	5042.0
5°	5490.1	5439.7	5291.3	5148.8	5039.0	4892.1	4792.7	4726.0	4752.7	4700.7	4680.0
7.5°	5530.2	5438.2	5233.4	5006.4	4798.7	4641.4	4488.5	4341.6	4319.4	4286.7	4288.2
10°	5565.8	5433.7	5166.7	4869.9	4628.0	4350.6	4166.6	4015.2	3981.1	3942.5	3923.2
12.5°	5622.2	5444.1	5083.6	4724.5	4401.0	4080.5	3881.7	3703.6	3669.5	3593.8	3577.5
15°	5735.0	5481.2	5001.9	4544.9	4145.8	3822.3	3565.6	3409.8	3347.5	3262.9	3261.4
17.5°	5881.9	5589.5	4960.4	4375.8	3929.1	3567.1	3295.6	3138.3	3032.9	2982.5	2969.1
20°	6091.1	5730.5	4958.9	4222.9	3703.6	3294.1	2982.5	2804.4	2715.4	2673.8	2648.6
22.5°	6413.1	5938.2	4985.6	4116.1	3476.6	3030.0	2719.8	2475.0	2328.1	2213.9	2230.2
25°	6813.7	6249.8	5046.5	4018.2	3279.2	2777.7	2388.9	2049.2	1786.5	1672.3	1681.2
27.5°	7322.6	6622.3	5203.7	3918.8	3055.2	2506.2	1957.2	1525.4	1326.5	1193.0	1203.4
30°	7974.0	7085.2	5410.0	3841.6	2847.4	2126.3	1473.4	1124.7	949.6	839.8	829.5
32.5°	8753.0	7755.9	5635.5	3789.7	2620.4	1651.5	1062.4	825.0	654.4	592.0	600.9
35°	9717.5	8509.7	5979.8	3714.0	2231.7	1175.2	758.2	557.9	470.4	458.5	460.0
37.5°	10597.4	9281.3	6321.1	3586.4	1761.3	835.4	514.9	424.4	405.1	400.6	406.6
40°	11459.5	9984.6	6629.7	3400.9	1210.8	572.8	378.4	382.8	366.5	354.6	348.7
42.5°	12266.7	10662.7	6871.6	3059.6	828.0	378.4	335.3	348.7	345.7	322.0	311.6
45°	13137.7	11379.4	7005.1	2581.8	520.8	322.0	301.2	325.0	339.8	313.1	301.2
47.5°	13881.1	12078.3	6999.2	1977.9	353.1	304.2	283.4	304.2	322.0	302.7	292.3
50°	14738.8	12657.0	6809.2	1255.3	313.1	281.9	271.5	279.0	302.7	289.3	279.0
52.5°	15691.4	13449.3	6521.4	700.4	296.8	267.1	252.2	261.2	281.9	265.6	271.5
55°	16480.8	14106.6	5844.8	477.8	289.3	249.3	240.4	246.3	255.2	238.9	247.8
57.5°	17185.6	14649.7	5160.7	391.7	279.0	237.4	235.9	224.1	222.6	212.2	203.3
60°	17899.3	15078.5	4237.8	354.6	268.6	238.9	213.7	197.3	184.0	173.6	169.2
62.5°	18446.8	15375.3	3351.9	320.5	253.7	224.1	195.9	169.2	146.9	133.5	133.5
65°	18607.1	15243.3	2359.3	290.8	237.4	210.7	175.1	138.0	111.3	102.4	97.9
67.5°	18093.7	14485.0	1642.6	268.6	221.1	195.9	154.3	112.8	89.0	77.2	74.2
70°	16786.4	13216.4	968.9	237.4	200.3	170.6	141.0	92.0	72.7	60.8	57.9
72.5°	14854.5	11314.1	603.9	201.8	172.1	139.5	105.4	75.7	57.9	47.5	46.0
75°	12269.7	8819.8	394.7	155.8	136.5	109.8	80.1	60.8	50.4	40.1	37.1
77.5°	9839.2	6239.5	353.1	118.7	100.9	78.6	60.8	50.4	41.5	35.6	35.6
80°	5662.2	3561.2	289.3	81.6	62.3	59.4	47.5	41.5	38.6	34.1	32.6
82.5°	2782.2	1710.8	187.0	50.4	35.6	38.6	40.1	37.1	32.6	29.7	29.7
85°	958.5	569.8	75.7	32.6	23.7	23.7	25.2	26.7	25.2	23.7	23.7
87.5°	148.4	108.3	20.8	19.3	14.8	13.4	14.8	16.3	16.3	14.8	14.8
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)