

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: P510276

Luminaire Tested: **VERD-M-CA4-240-740-U-T2-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510276  
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-CA4-240-740-U-T2-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 4000K, 1090mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30598 lumens  
Efficiency: N/A  
Efficacy: 126.3 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

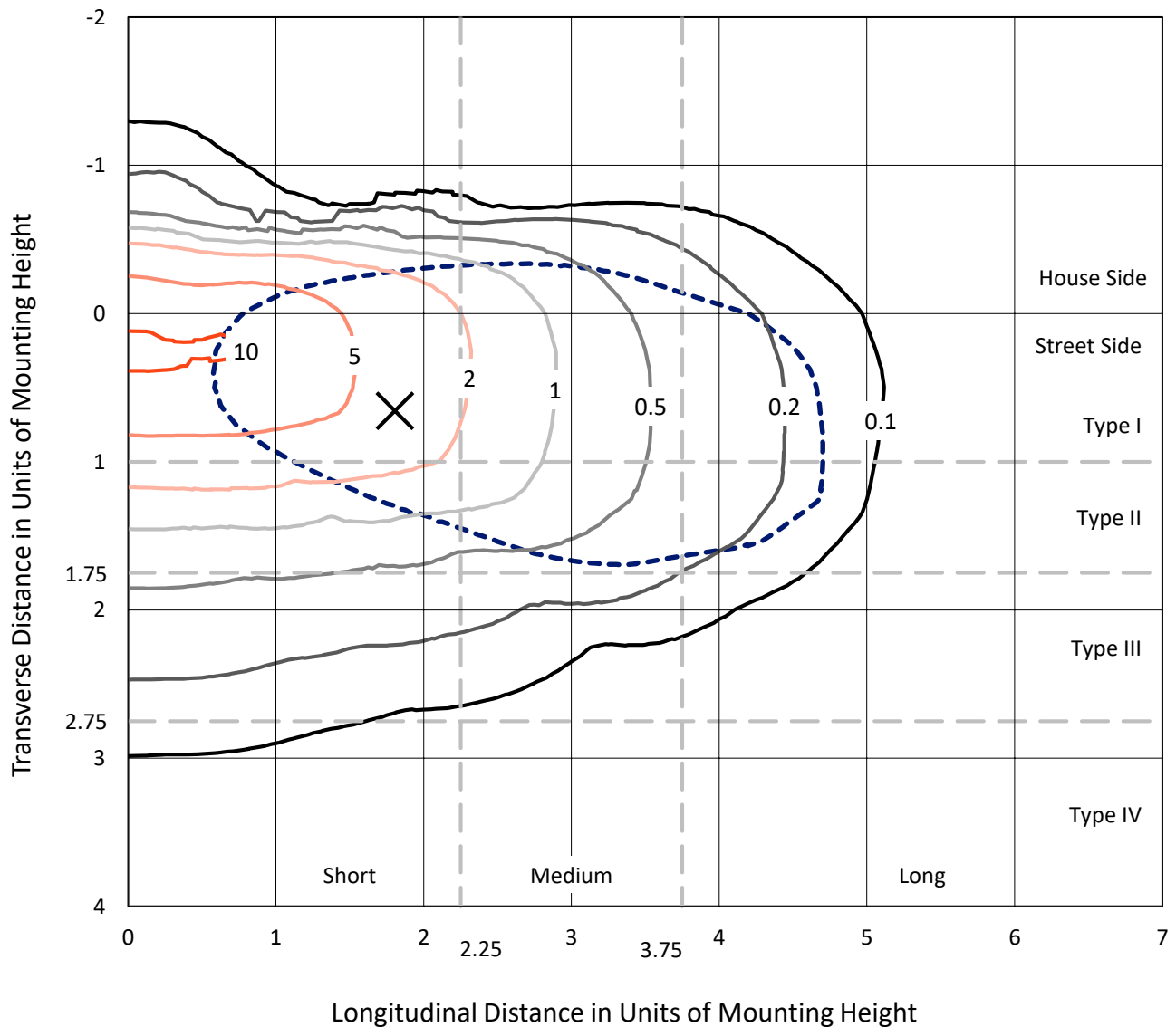
Input Watts (W): 242.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P510276  
 CATALOG NUMBER: VERD-M-CA4-240-740-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

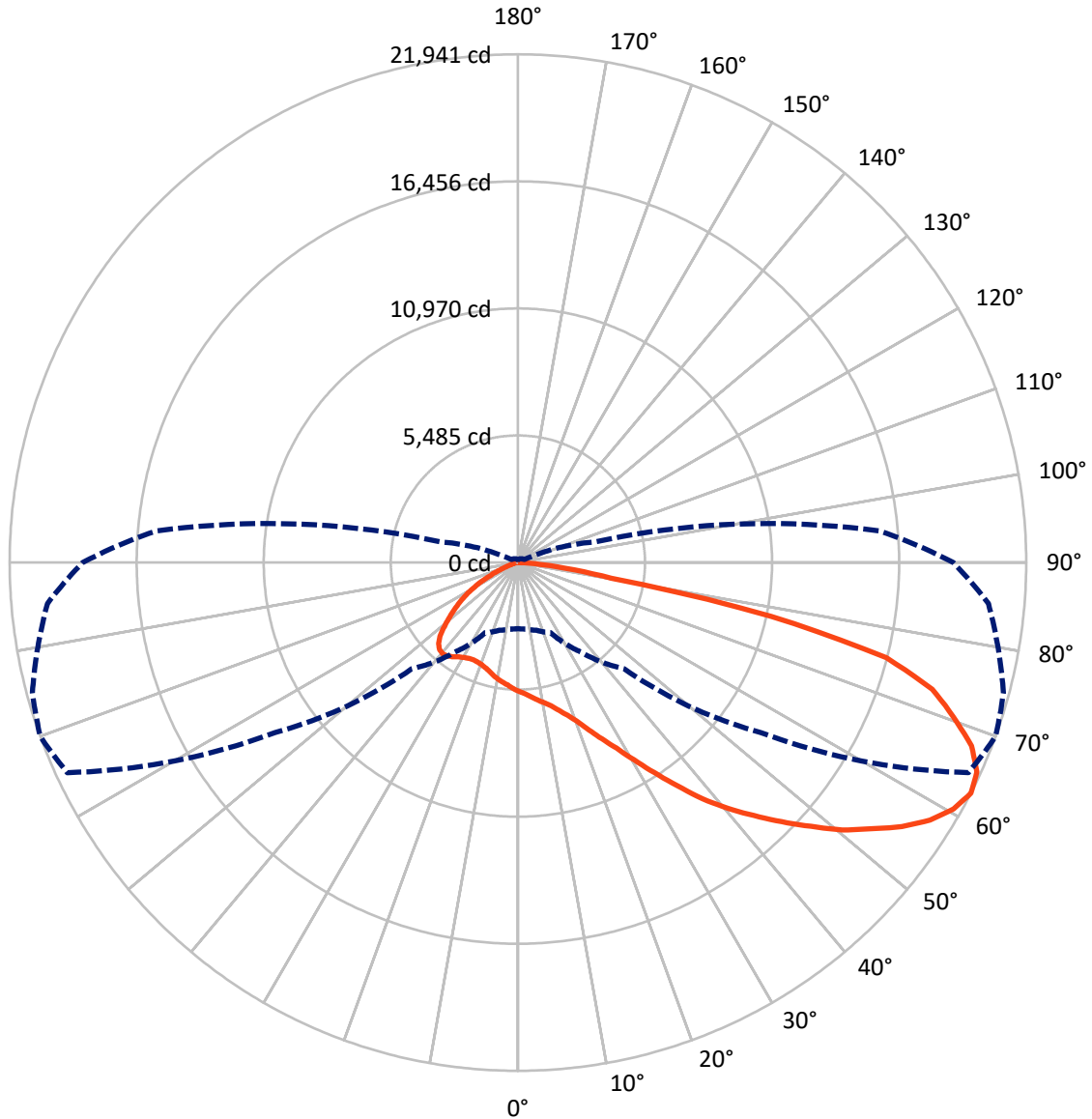
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P510276  
CATALOG NUMBER: VERD-M-CA4-240-740-U-T2-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P510276  
 CATALOG NUMBER: VERD-M-CA4-240-740-U-T2-HSS

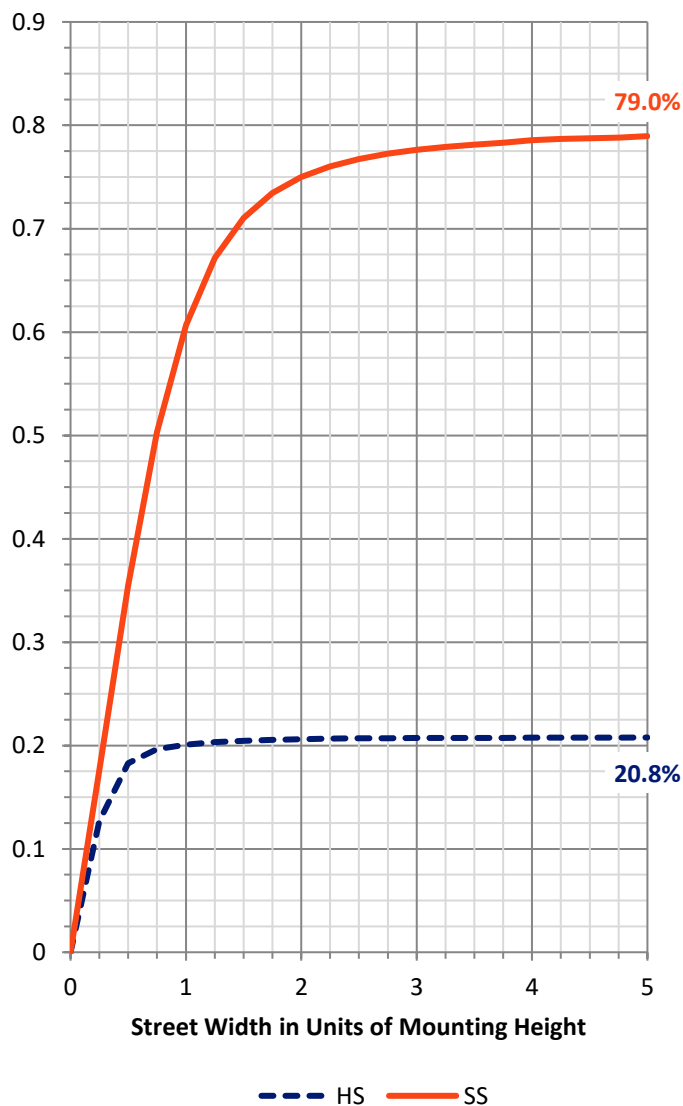
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6434.4	0.0	6434.4
	% Fixture	21.0	0.0	21.0
<b>Street Side</b>	Lumens	24163.6	0.0	24163.6
	% Fixture	79.0	0.0	79.0
<b>Total</b>	Lumens	30598.0	0.0	30598.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	528.1	1.7
10°-20°	1576.1	5.2
20°-30°	2672.0	8.7
30°-40°	3929.3	12.8
40°-50°	5232.6	17.1
50°-60°	6121.0	20.0
60°-70°	6156.3	20.1
70°-80°	3897.0	12.7
80°-90°	485.6	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°	30598.0	100.0
0°-180°	30598.0	100.0



REPORT NUMBER: P510276

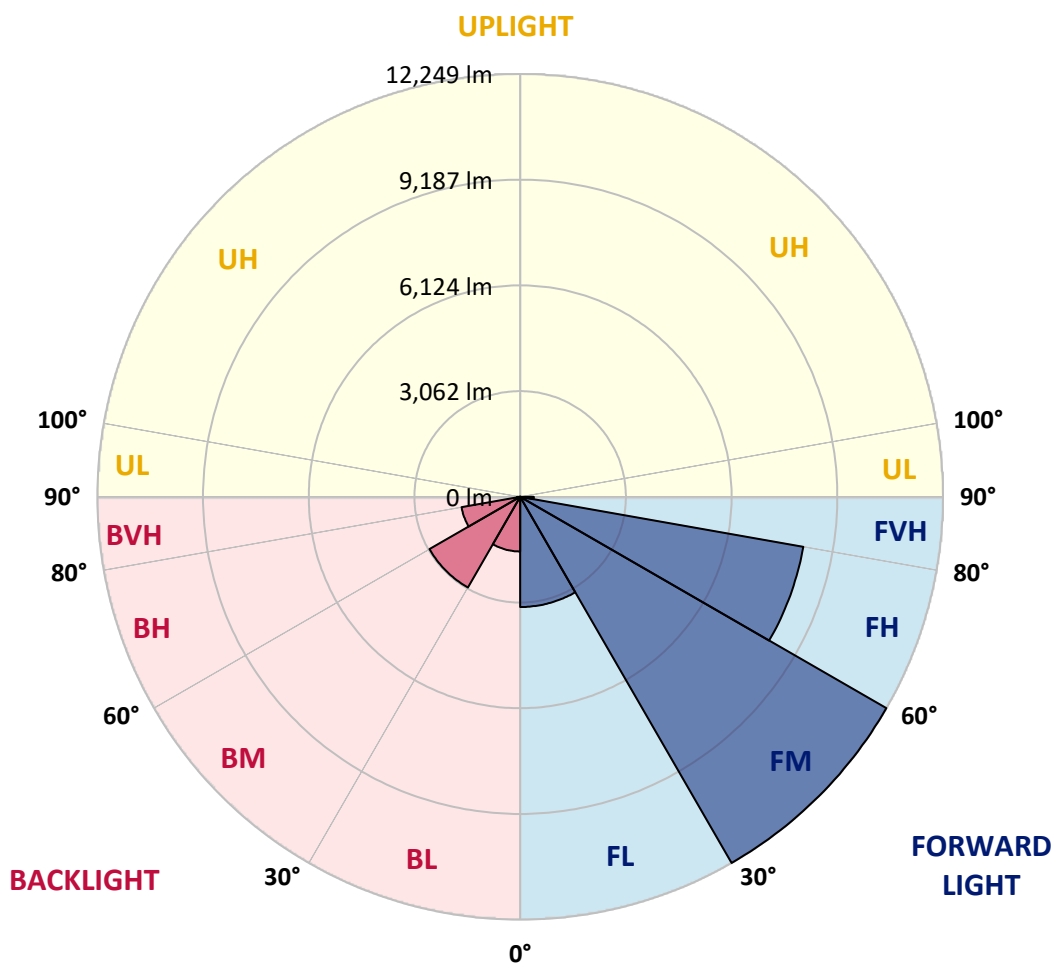
CATALOG NUMBER: VERD-M-CA4-240-740-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3192.1	10.4			
FM (30°-60°)	12248.9	40.0			
FH (60°-80°)	8328.8	27.2			G4/12000
FVH (80°-90°)	393.8	1.3			G3/500
BL (0°-30°)	1584.2	5.2	B3/2500		
BM (30°-60°)	3033.9	9.9	B3/5000		
BH (60°-80°)	1724.5	5.6	B3/2500		G3/2500
BVH (80°-90°)	91.8	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: P510276

CATALOG NUMBER: VERD-M-CA4-240-740-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	5562.6	5562.6	5562.6	5562.6	5562.6	5562.6	5562.6	5562.6	5562.6	5562.6	5562.6
2.5°	5867.9	5919.3	5880.0	5864.9	5877.0	5816.5	5768.2	5698.7	5665.4	5641.2	5601.9
5°	6165.6	6250.2	6198.9	6167.1	6162.6	6052.3	5987.3	5892.1	5818.0	5753.1	5653.3
7.5°	6479.9	6529.8	6510.2	6473.9	6449.7	6315.2	6200.4	6065.9	5984.3	5898.1	5730.4
10°	6755.0	6815.4	6795.8	6730.8	6708.1	6570.6	6439.1	6256.3	6144.5	6037.2	5805.9
12.5°	7039.1	7107.1	7066.3	7001.3	6981.6	6842.6	6706.6	6484.5	6345.4	6224.5	5904.2
15°	7300.5	7362.5	7333.7	7259.7	7240.1	7122.2	6972.6	6765.5	6614.4	6454.2	6043.2
17.5°	7509.0	7571.0	7534.7	7500.0	7493.9	7377.6	7288.4	7076.8	6933.3	6715.7	6256.3
20°	7661.7	7725.1	7707.0	7723.6	7787.1	7701.0	7646.6	7468.2	7321.7	7085.9	6563.0
22.5°	7782.6	7864.2	7936.7	7970.0	8087.8	8081.8	8069.7	7963.9	7849.1	7604.2	6928.8
25°	7794.7	7888.3	8031.9	8187.6	8402.2	8504.9	8580.5	8563.8	8429.4	8187.6	7435.0
27.5°	7812.8	7909.5	8057.6	8325.1	8708.9	8949.2	9074.6	9151.7	9073.1	8911.4	8010.8
30°	7773.5	7873.2	8059.1	8400.6	8919.0	9364.8	9588.4	9874.0	9883.1	9747.1	8879.7
32.5°	7595.2	7726.7	7951.8	8409.7	9123.0	9798.5	10143.0	10691.6	10811.0	10709.7	9775.8
35°	7297.5	7416.9	7738.7	8329.6	9246.9	10159.7	10789.8	11645.1	11821.9	11815.9	10830.6
37.5°	6968.0	7088.9	7451.6	8140.7	9327.0	10481.5	11359.5	12591.1	12943.2	12869.2	11826.5
40°	6603.8	6730.8	7149.4	7903.5	9287.7	10768.7	11962.5	13508.4	13945.2	13954.2	12778.5
42.5°	6180.7	6285.0	6705.1	7575.5	9157.7	10980.2	12523.1	14474.1	14933.5	14907.8	13676.2
45°	5775.7	5884.5	6251.7	7067.8	8857.0	11098.1	13073.2	15451.8	15955.0	15873.4	14673.5
47.5°	5286.1	5441.8	5860.3	6641.6	8393.1	11089.0	13553.8	16452.2	17017.4	16950.9	15534.9
50°	4068.1	4160.3	5107.8	6201.9	7764.4	10877.5	14023.7	17434.5	18149.2	18019.3	16453.7
52.5°	3664.6	3747.7	4053.0	5674.5	7193.2	10419.6	14415.1	18558.8	19093.7	18992.5	17392.1
55°	3463.6	3509.0	3694.8	4680.1	6635.6	9676.1	14676.6	19557.7	20113.8	19890.1	18270.1
57.5°	3211.3	3267.2	3483.3	3997.1	5949.5	8535.1	14616.1	20458.3	20972.1	20629.1	19043.9
60°	3017.8	3060.1	3262.6	3598.1	5240.8	7353.4	13998.0	21342.4	21600.8	21262.3	19814.6
62.5°	2854.6	2878.8	3020.8	3339.7	4701.3	6490.5	12792.1	21460.2	21940.8	21696.0	20388.8
65°	2652.1	2658.2	2825.9	3075.2	4202.6	5972.2	11757.0	20855.8	21771.5	21689.9	20595.8
67.5°	2414.9	2427.0	2596.2	2786.6	3602.6	5420.6	10144.5	20530.9	21114.2	21062.8	20186.3
70°	2117.2	2141.3	2297.0	2442.1	3051.1	4758.7	8074.2	19246.4	19938.5	19862.9	18836.8
72.5°	1830.0	1816.4	1961.5	2105.1	2541.8	3972.9	6120.3	17035.5	18702.3	18629.8	17083.9
75°	1503.6	1494.6	1644.2	1780.2	2083.9	3209.7	4305.3	12598.7	16432.6	16656.2	14731.0
77.5°	926.4	933.9	1020.0	1110.7	1411.4	2398.2	2747.3	7008.8	11163.1	13237.9	11560.5
80°	671.0	671.0	734.4	788.8	933.9	1461.3	1367.6	2922.6	4080.2	6389.3	7209.8
82.5°	435.2	417.1	456.4	503.2	519.8	633.2	625.6	1465.8	2079.4	2502.5	3002.7
85°	226.7	250.9	151.1	213.1	225.2	210.1	216.1	687.6	923.3	1183.3	1302.6
87.5°	34.8	27.2	36.3	49.9	57.4	48.4	42.3	80.1	123.9	164.7	194.9
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: P510276  
 CATALOG NUMBER: VERD-M-CA4-240-740-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5562.6	5562.6	5562.6	5562.6	5562.6	5562.6	5562.6	5562.6	5562.6	5562.6	5562.6
2.5°	5576.2	5568.7	5499.2	5397.9	5314.8	5245.3	5200.0	5169.7	5203.0	5142.5	5135.0
5°	5591.4	5540.0	5388.9	5243.8	5132.0	4982.4	4881.1	4813.1	4840.3	4787.4	4766.3
7.5°	5632.2	5538.5	5329.9	5098.7	4887.1	4727.0	4571.3	4421.7	4399.0	4365.8	4367.3
10°	5668.4	5533.9	5261.9	4959.7	4713.4	4430.8	4243.4	4089.2	4054.5	4015.2	3995.6
12.5°	5725.9	5544.5	5177.3	4811.6	4482.2	4155.7	3953.2	3771.9	3737.1	3660.1	3643.5
15°	5840.7	5582.3	5094.2	4628.7	4222.2	3892.8	3631.4	3472.7	3409.2	3323.1	3321.6
17.5°	5990.3	5692.6	5051.9	4456.5	4001.6	3632.9	3356.3	3196.1	3088.8	3037.5	3023.9
20°	6203.4	5836.2	5050.4	4300.8	3771.9	3354.8	3037.5	2856.1	2765.5	2723.1	2697.5
22.5°	6531.3	6047.7	5077.6	4192.0	3540.7	3085.8	2770.0	2520.6	2371.0	2254.7	2271.3
25°	6939.3	6365.1	5139.5	4092.3	3339.7	2828.9	2433.0	2086.9	1819.5	1703.1	1712.2
27.5°	7457.7	6744.4	5299.7	3991.0	3111.5	2552.4	1993.2	1553.5	1351.0	1215.0	1225.6
30°	8121.1	7215.9	5509.8	3912.4	2900.0	2165.5	1500.6	1145.5	967.2	855.3	844.7
32.5°	8914.4	7898.9	5739.5	3859.5	2668.7	1681.9	1082.0	840.2	666.4	603.0	612.0
35°	9896.7	8666.6	6090.0	3782.5	2272.8	1196.9	772.2	568.2	479.0	467.0	468.5
37.5°	10792.8	9452.4	6437.6	3652.5	1793.8	850.8	524.4	432.2	412.6	408.0	414.1
40°	11670.8	10168.7	6751.9	3463.6	1233.1	583.3	385.4	389.9	373.3	361.2	355.1
42.5°	12492.9	10859.3	6998.3	3116.0	843.2	385.4	341.5	355.1	352.1	327.9	317.3
45°	13380.0	11589.2	7134.3	2629.4	530.4	327.9	306.8	330.9	346.1	318.9	306.8
47.5°	14137.1	12301.0	7128.2	2014.4	359.7	309.8	288.6	309.8	327.9	308.3	297.7
50°	15010.5	12890.3	6934.8	1278.5	318.9	287.1	276.5	284.1	308.3	294.7	284.1
52.5°	15980.7	13697.3	6641.6	713.3	302.2	272.0	256.9	266.0	287.1	270.5	276.5
55°	16784.7	14366.8	5952.5	486.6	294.7	253.9	244.8	250.9	259.9	243.3	252.4
57.5°	17502.5	14919.9	5255.9	399.0	284.1	241.8	240.3	228.2	226.7	216.1	207.0
60°	18229.3	15356.6	4315.9	361.2	273.5	243.3	217.6	201.0	187.4	176.8	172.3
62.5°	18787.0	15658.8	3413.8	326.4	258.4	228.2	199.5	172.3	149.6	136.0	136.0
65°	18950.2	15524.3	2402.8	296.2	241.8	214.6	178.3	140.5	113.3	104.3	99.7
67.5°	18427.3	14752.1	1672.9	273.5	225.2	199.5	157.2	114.8	90.7	78.6	75.6
70°	17096.0	13460.1	986.8	241.8	204.0	173.8	143.6	93.7	74.0	62.0	58.9
72.5°	15128.4	11522.7	615.0	205.5	175.3	142.1	107.3	77.1	58.9	48.4	46.8
75°	12495.9	8982.4	402.0	158.7	139.0	111.8	81.6	62.0	51.4	40.8	37.8
77.5°	10020.6	6354.5	359.7	120.9	102.8	80.1	62.0	51.4	42.3	36.3	36.3
80°	5766.7	3626.8	294.7	83.1	63.5	60.4	48.4	42.3	39.3	34.8	33.2
82.5°	2833.5	1742.4	190.4	51.4	36.3	39.3	40.8	37.8	33.2	30.2	30.2
85°	976.2	580.3	77.1	33.2	24.2	24.2	25.7	27.2	25.7	24.2	24.2
87.5°	151.1	110.3	21.2	19.6	15.1	13.6	15.1	16.6	16.6	15.1	15.1
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)