

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: P285814

Luminaire Tested: **PRV-XL-C175-D-UNV-T3-BZ-HSS**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-8)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-C175-D-UNV-T3-BZ-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44192 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

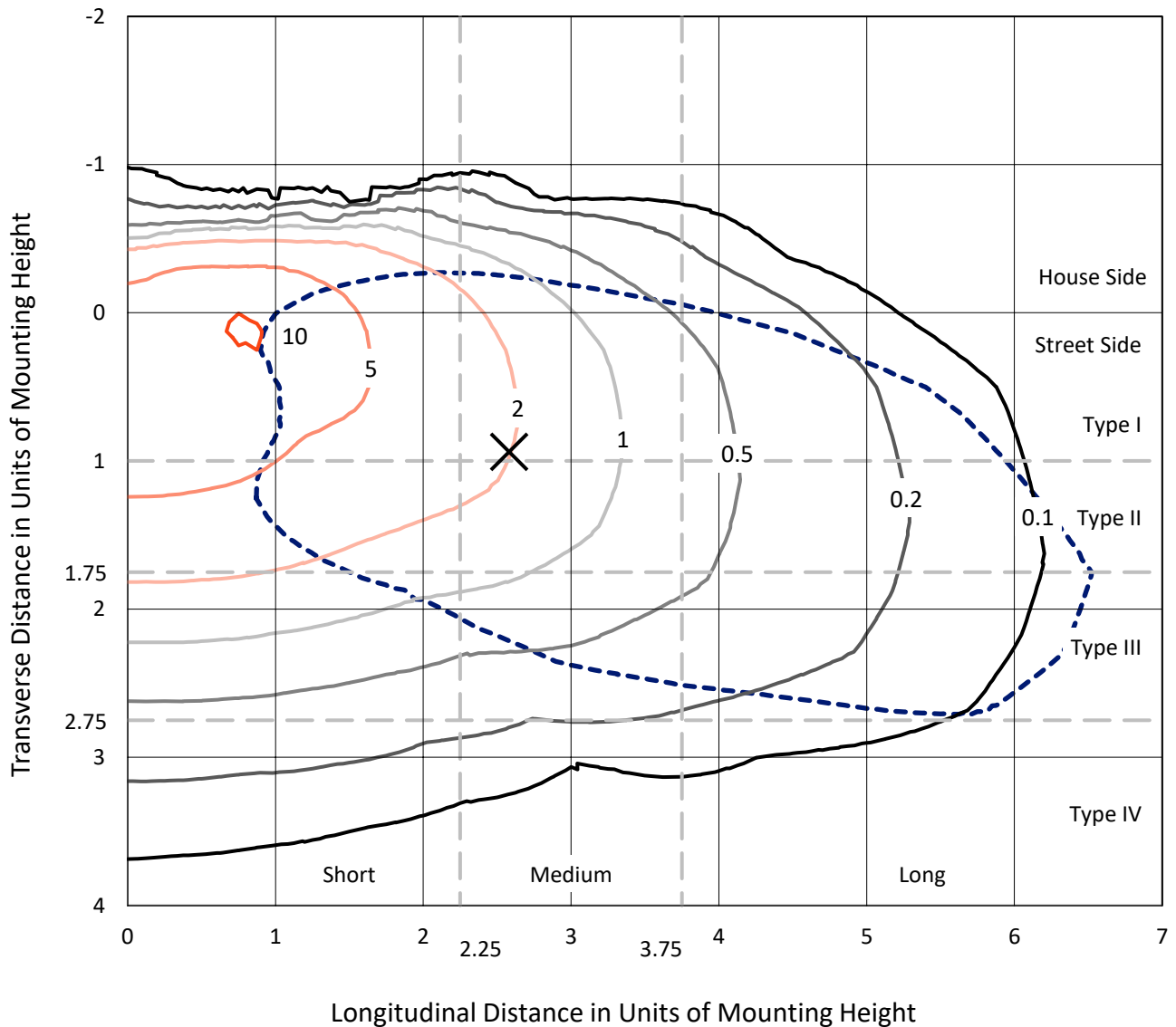
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: PRV-XL-C175-D-UNV-T3-BZ-HSS

Iso-Footcandle Lines of Horizontal Illumination

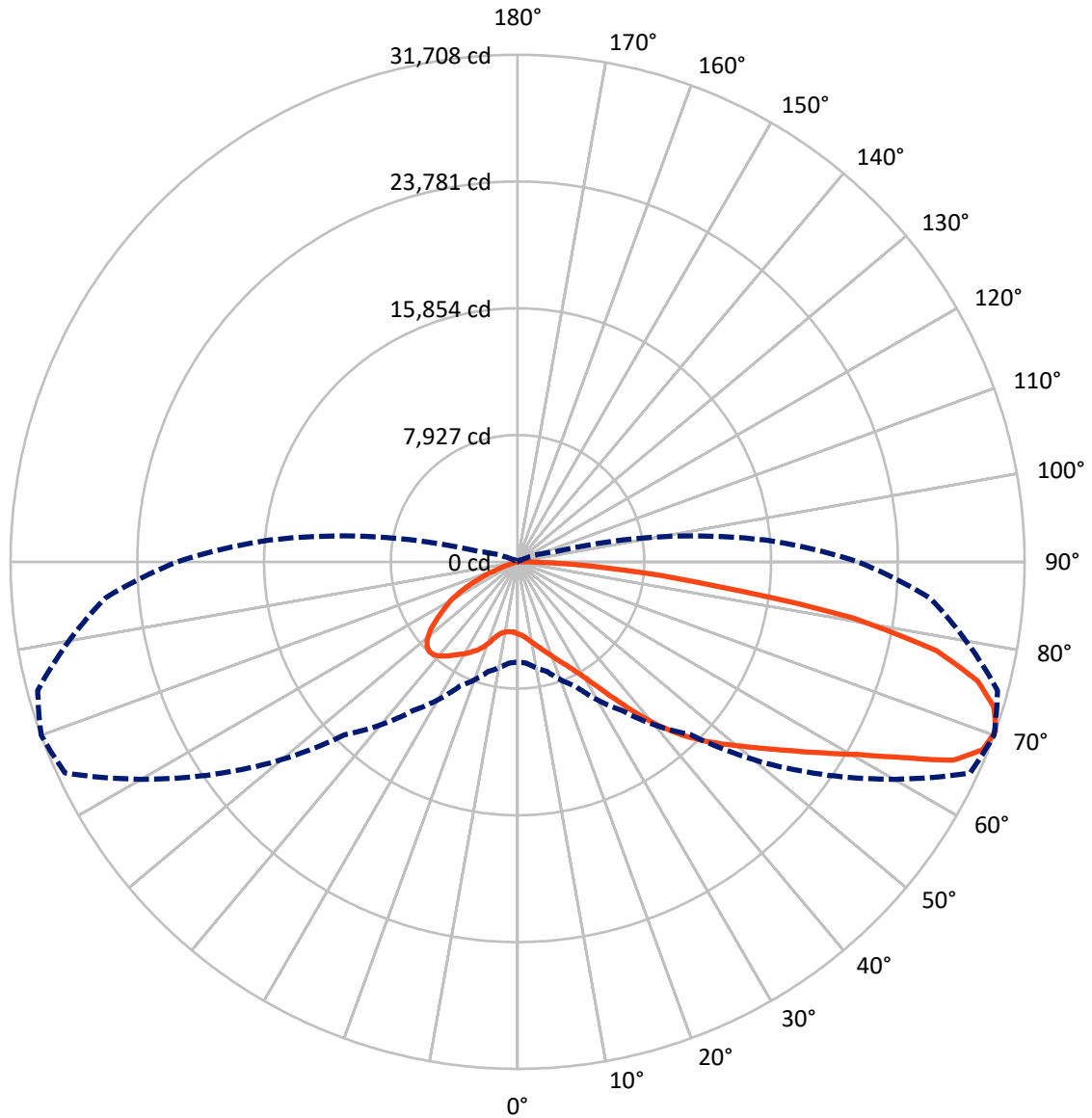
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P285814
CATALOG NUMBER: PRV-XL-C175-D-UNV-T3-BZ-HSS

Luminous Intensity Polar Plot



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

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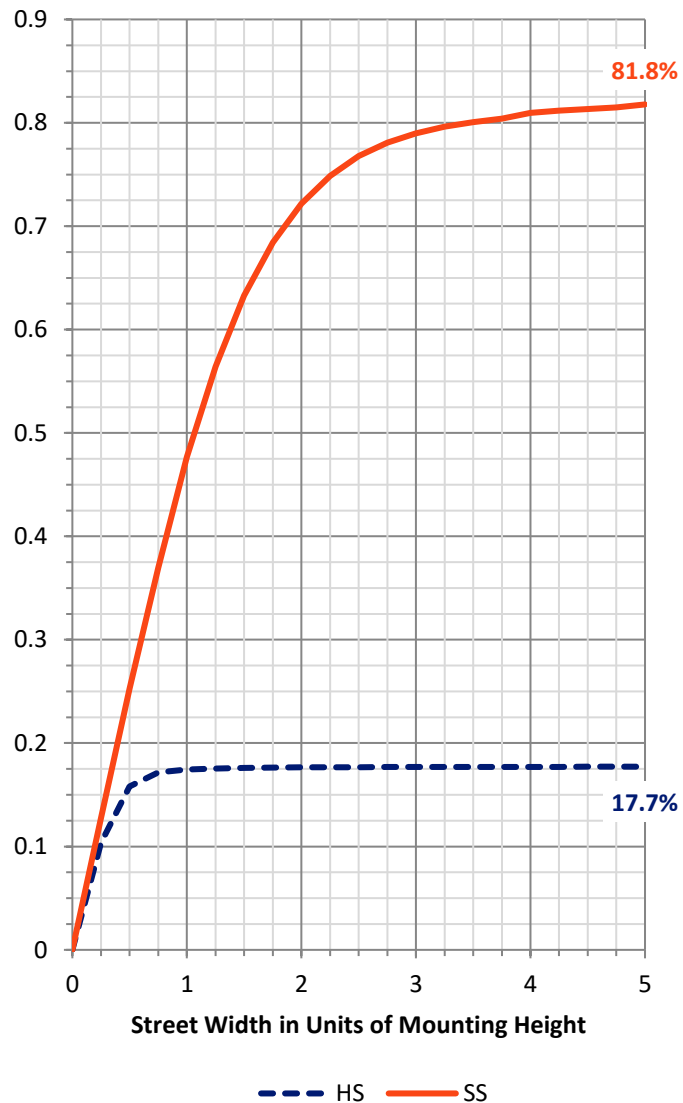
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7918.9	0.0	7918.9
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	36273.1	0.0	36273.1
	% Fixture	82.1	0.0	82.1
Total	Lumens	44192.0	0.0	44192.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.6	1.0
10°-20°	1372.1	3.1
20°-30°	2498.5	5.7
30°-40°	4247.8	9.6
40°-50°	6681.6	15.1
50°-60°	9019.4	20.4
60°-70°	10551.8	23.9
70°-80°	7851.6	17.8
80°-90°	1532.8	3.5
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°	44192.0	100.0
0°-180°	44192.0	100.0

Coefficient of Utilization

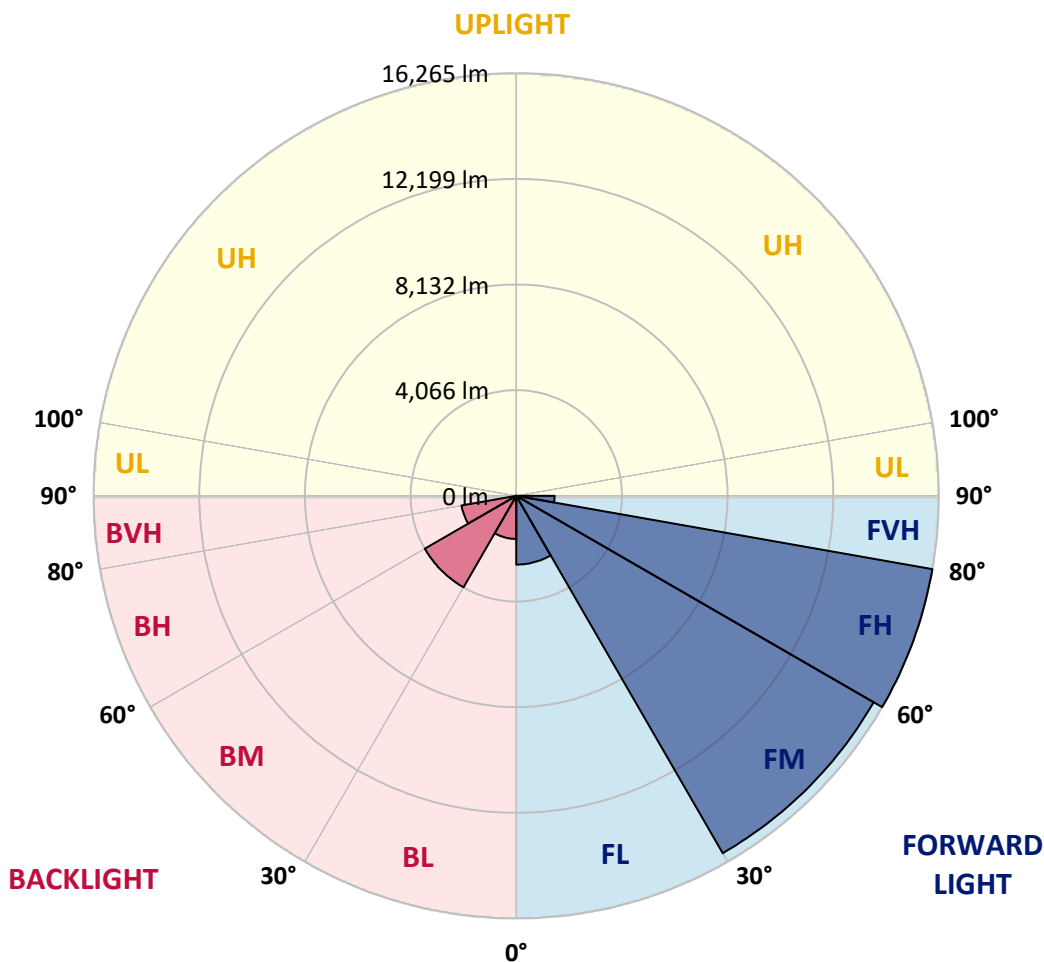


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2647.3	6.0			
FM (30°-60°)	15884.4	35.9			
FH (60°-80°)	16264.7	36.8			G5
FVH (80°-90°)	1476.6	3.3			G5
BL (0°-30°)	1659.9	3.8	B3/2500		
BM (30°-60°)	4064.2	9.2	B3/5000		
BH (60°-80°)	2138.6	4.8	B3/2500		G3/2500
BVH (80°-90°)	56.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4516.7	4516.7	4516.7	4516.7	4516.7	4516.7	4516.7	4516.7	4516.7	4516.7	4516.7
2.5°	4769.8	4766.0	4773.5	4754.9	4766.0	4730.7	4699.0	4654.4	4585.5	4561.3	4514.8
5°	5002.4	5006.1	5004.3	4991.2	4974.5	4937.3	4874.0	4812.6	4730.7	4691.6	4600.4
7.5°	5201.5	5203.4	5210.8	5207.1	5197.8	5149.4	5091.7	5013.6	4914.9	4864.7	4740.0
10°	5359.7	5357.8	5369.0	5385.8	5423.0	5385.8	5309.5	5246.2	5140.1	5073.1	4918.6
12.5°	5463.9	5450.9	5482.5	5529.1	5596.1	5601.6	5551.4	5486.3	5393.2	5315.0	5142.0
15°	5512.3	5506.7	5564.4	5661.2	5758.0	5789.6	5782.2	5733.8	5664.9	5586.8	5398.8
17.5°	5625.8	5624.0	5663.1	5776.6	5890.1	5970.1	6052.0	6044.6	5981.3	5925.5	5730.0
20°	5810.1	5813.8	5813.8	5912.4	6037.1	6178.6	6340.5	6390.7	6340.5	6307.0	6119.0
22.5°	6035.3	6018.5	6007.3	6089.2	6241.8	6439.1	6668.0	6761.0	6753.6	6720.1	6606.6
25°	6351.6	6314.4	6234.4	6336.7	6524.7	6755.5	7023.4	7179.8	7192.8	7202.1	7284.0
27.5°	6854.1	6852.2	6716.4	6723.8	6852.2	7120.2	7447.8	7717.6	7754.8	7859.0	8140.1
30°	7866.5	7764.1	7607.8	7358.4	7315.6	7568.7	7959.5	8372.7	8478.8	8797.0	9137.6
32.5°	8813.7	8737.4	8627.6	8339.2	7987.5	8080.5	8525.3	9137.6	9416.7	10051.3	10362.1
35°	9627.0	9587.9	9506.0	9334.8	9016.6	8776.5	9141.3	9988.0	10576.1	11506.6	11778.3
37.5°	10421.7	10391.9	10337.9	10187.2	9988.0	9628.9	9857.8	10991.1	11947.7	13038.2	13177.8
40°	11119.5	11110.2	11156.8	11063.7	10976.2	10752.9	10685.9	12050.0	13380.7	14530.8	14497.3
42.5°	11729.9	11715.1	11942.1	11819.3	11923.5	11837.9	11698.3	13040.1	14679.6	15755.3	15641.8
45°	12137.5	12130.1	12370.1	12493.0	12787.0	12850.3	12766.5	14067.4	15863.2	16877.5	16628.1
47.5°	12448.3	12427.8	12560.0	13032.6	13576.1	13704.5	13866.4	15213.8	16976.1	17869.4	17567.9
50°	12617.6	12625.1	12896.8	13535.1	14339.1	14635.0	14975.5	16576.0	18107.6	18932.0	18433.3
52.5°	12727.4	12807.5	13207.6	13976.2	15074.2	15593.4	15984.2	18048.1	19389.9	19935.1	19402.9
55°	12805.6	12947.0	13347.2	14214.4	15533.8	16393.6	16965.0	19600.2	20848.9	21193.2	20430.2
57.5°	12301.3	12452.0	13125.7	14257.2	15913.5	17069.2	18089.0	21262.0	22555.4	22587.1	21384.9
60°	11476.8	11569.9	12431.5	13994.8	15859.5	17690.8	19468.0	23231.0	24457.4	24440.6	22564.7
62.5°	10624.5	10672.9	11547.6	13302.5	15554.3	17919.7	20781.9	25877.3	26930.7	26433.8	23767.0
65°	9498.6	9552.6	10455.2	12159.8	14705.7	17765.2	21905.9	28652.1	29915.7	29122.9	24930.1
67.5°	8032.1	8134.5	8968.2	10551.9	13324.8	16950.1	22762.0	30554.1	31367.3	30673.2	25745.2
70°	6264.2	6355.3	7099.8	8592.3	11333.5	15288.2	23160.3	31224.0	31707.9	31071.4	25882.9
72.5°	4460.8	4527.8	4857.2	6106.0	8596.0	12775.8	22782.5	30902.1	31153.3	30358.6	24948.7
75°	3396.3	3342.4	3537.8	4010.5	5028.4	8977.5	20484.1	29446.8	29703.6	28827.0	23126.8
77.5°	2458.4	2415.6	2650.1	3016.7	3508.0	4220.8	14398.6	26458.0	26789.2	26072.7	20033.8
80°	1446.0	1507.4	1818.2	2166.2	2557.0	2812.0	6789.0	19765.8	21224.8	20932.6	14605.2
82.5°	275.4	297.8	755.6	1148.2	1408.8	1490.7	2570.1	10872.0	12461.3	12779.6	7715.7
85°	180.5	195.4	452.2	461.5	450.4	576.9	1038.4	5238.7	6727.5	6803.9	3388.9
87.5°	83.7	93.1	137.7	199.1	253.1	303.3	342.4	1406.9	2078.7	2127.1	670.0
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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CATALOG NUMBER: PRV-XL-C175-D-UNV-T3-BZ-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4516.7	4516.7	4516.7	4516.7	4516.7	4516.7	4516.7	4516.7	4516.7	4516.7	4516.7
2.5°	4490.6	4472.0	4432.9	4399.4	4377.1	4364.1	4289.6	4276.6	4248.7	4228.2	4218.9
5°	4557.6	4522.3	4427.3	4362.2	4278.5	4209.6	4084.9	4021.6	3984.4	3945.3	3936.0
7.5°	4671.1	4613.4	4464.6	4347.3	4204.0	4079.3	3904.4	3803.9	3733.2	3677.4	3671.8
10°	4831.2	4740.0	4526.0	4354.8	4148.2	3977.0	3759.2	3597.3	3498.7	3426.1	3422.4
12.5°	5030.3	4905.6	4641.4	4414.3	4148.2	3911.8	3653.2	3437.3	3292.1	3193.5	3182.3
15°	5279.7	5130.8	4833.0	4553.9	4239.4	3937.9	3580.6	3290.3	3078.1	2919.9	2912.5
17.5°	5590.5	5436.0	5145.7	4831.2	4412.5	3978.8	3526.6	3117.2	2810.1	2622.2	2601.7
20°	5983.1	5910.6	5612.8	5153.1	4591.1	3999.3	3405.6	2877.1	2460.3	2218.3	2186.7
22.5°	6545.2	6504.2	6078.1	5428.6	4693.5	3936.0	3206.5	2493.8	1987.6	1727.0	1702.8
25°	7248.6	7107.2	6494.9	5633.3	4712.1	3796.5	2869.7	2004.3	1438.6	1179.9	1170.6
27.5°	7981.9	7725.1	6856.0	5776.6	4658.1	3515.4	2397.0	1425.5	897.0	731.4	733.2
30°	8906.8	8419.2	7265.4	5912.4	4533.4	3133.9	1777.3	887.7	563.9	463.4	450.4
32.5°	9973.1	9297.6	7674.8	5966.4	4300.8	2594.2	1127.8	545.3	353.6	301.5	295.9
35°	11218.2	10384.4	8201.5	5972.0	3917.4	1928.0	675.5	320.1	240.1	241.9	245.7
37.5°	12517.1	11536.4	8843.5	5905.0	3439.1	1205.9	381.5	206.6	206.6	245.7	258.7
40°	13693.3	12638.1	9524.6	5754.2	2765.5	701.6	215.9	178.7	189.8	230.8	241.9
42.5°	14772.7	13591.0	10148.1	5519.8	1974.5	379.6	186.1	161.9	171.2	189.8	195.4
45°	15706.9	14419.1	10596.6	5142.0	1198.5	234.5	171.2	147.0	145.2	158.2	161.9
47.5°	16512.7	15159.8	10899.9	4602.3	627.2	223.3	165.6	134.0	124.7	130.3	132.1
50°	17339.0	15708.8	11013.5	3844.8	322.0	210.3	154.5	124.7	115.4	132.1	134.0
52.5°	18174.6	16533.2	11028.3	2785.9	255.0	189.8	141.4	115.4	111.7	147.0	152.6
55°	18987.9	17134.3	10814.3	1613.5	247.5	176.8	128.4	104.2	107.9	111.7	111.7
57.5°	19845.8	17854.5	10364.0	705.3	240.1	161.9	119.1	94.9	80.0	89.3	93.1
60°	20765.1	18476.1	9457.7	407.6	228.9	145.2	102.4	78.2	67.0	67.0	72.6
62.5°	21693.8	18932.0	7974.4	297.8	217.7	135.9	89.3	68.9	55.8	55.8	59.6
65°	22296.8	18628.7	6150.6	264.3	210.3	122.8	78.2	59.6	44.7	42.8	46.5
67.5°	22187.0	17467.4	4332.4	236.3	191.7	111.7	68.9	52.1	39.1	31.6	33.5
70°	21276.9	15569.2	2402.6	221.5	171.2	102.4	61.4	46.5	31.6	20.5	20.5
72.5°	19600.2	13082.9	923.1	199.1	152.6	89.3	55.8	44.7	27.9	11.2	9.3
75°	17097.1	9956.4	333.1	167.5	126.5	81.9	54.0	46.5	26.1	3.7	0.0
77.5°	13404.9	5571.9	197.3	124.7	94.9	70.7	57.7	46.5	14.9	0.0	0.0
80°	7200.2	2011.8	139.6	80.0	63.3	52.1	52.1	37.2	7.4	0.0	0.0
82.5°	2988.8	452.2	89.3	44.7	42.8	33.5	33.5	16.7	1.9	0.0	0.0
85°	846.8	132.1	40.9	24.2	24.2	18.6	9.3	0.0	0.0	0.0	0.0
87.5°	72.6	27.9	11.2	13.0	9.3	3.7	0.0	0.0	0.0	0.0	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)