

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: P381267

Luminaire Tested: **PRV-XL-PA4B-750-U-T3-HSS**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381267  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-XL-PA4B-750-U-T3-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29183 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G5

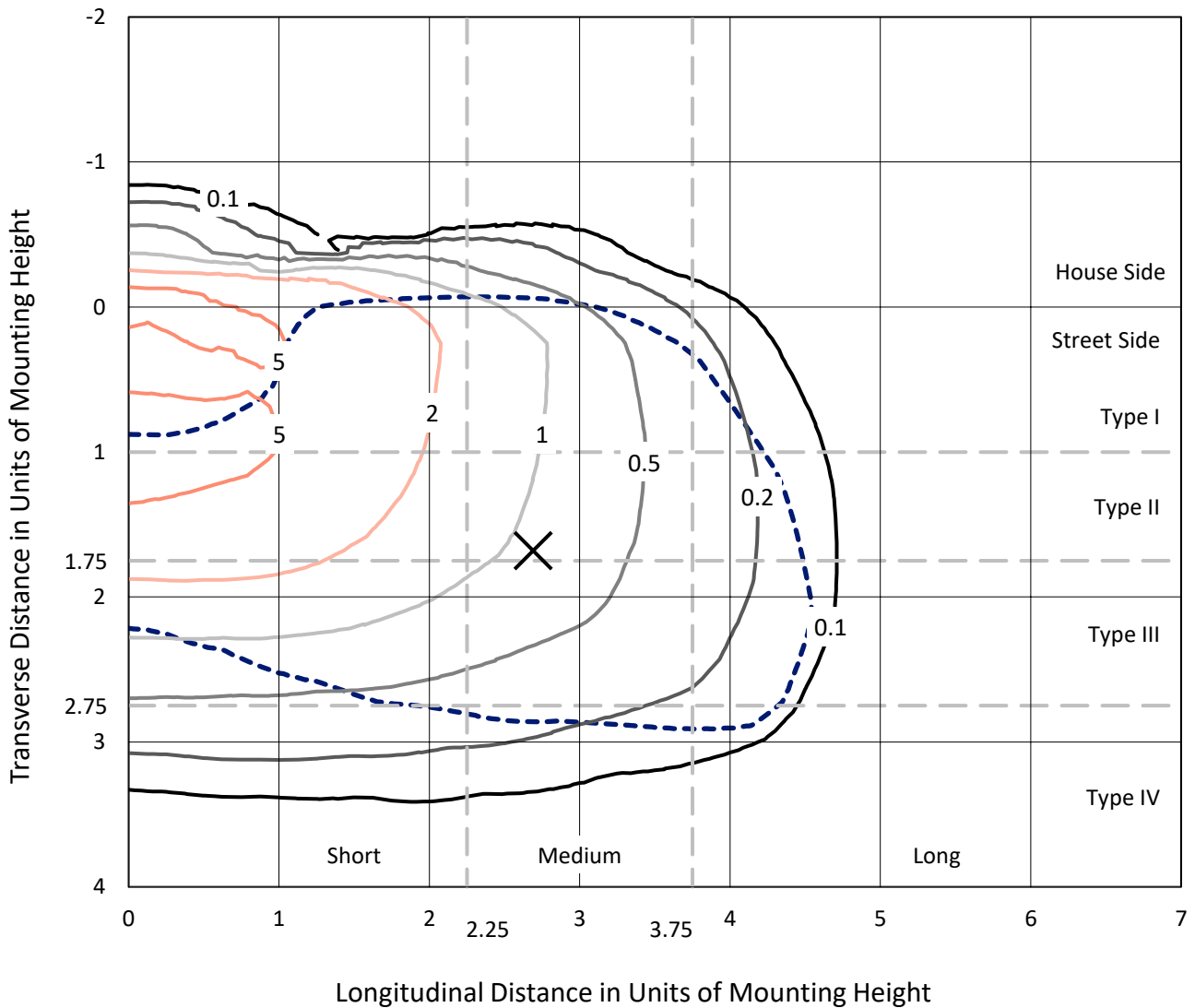
Input Watts (W): 303  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

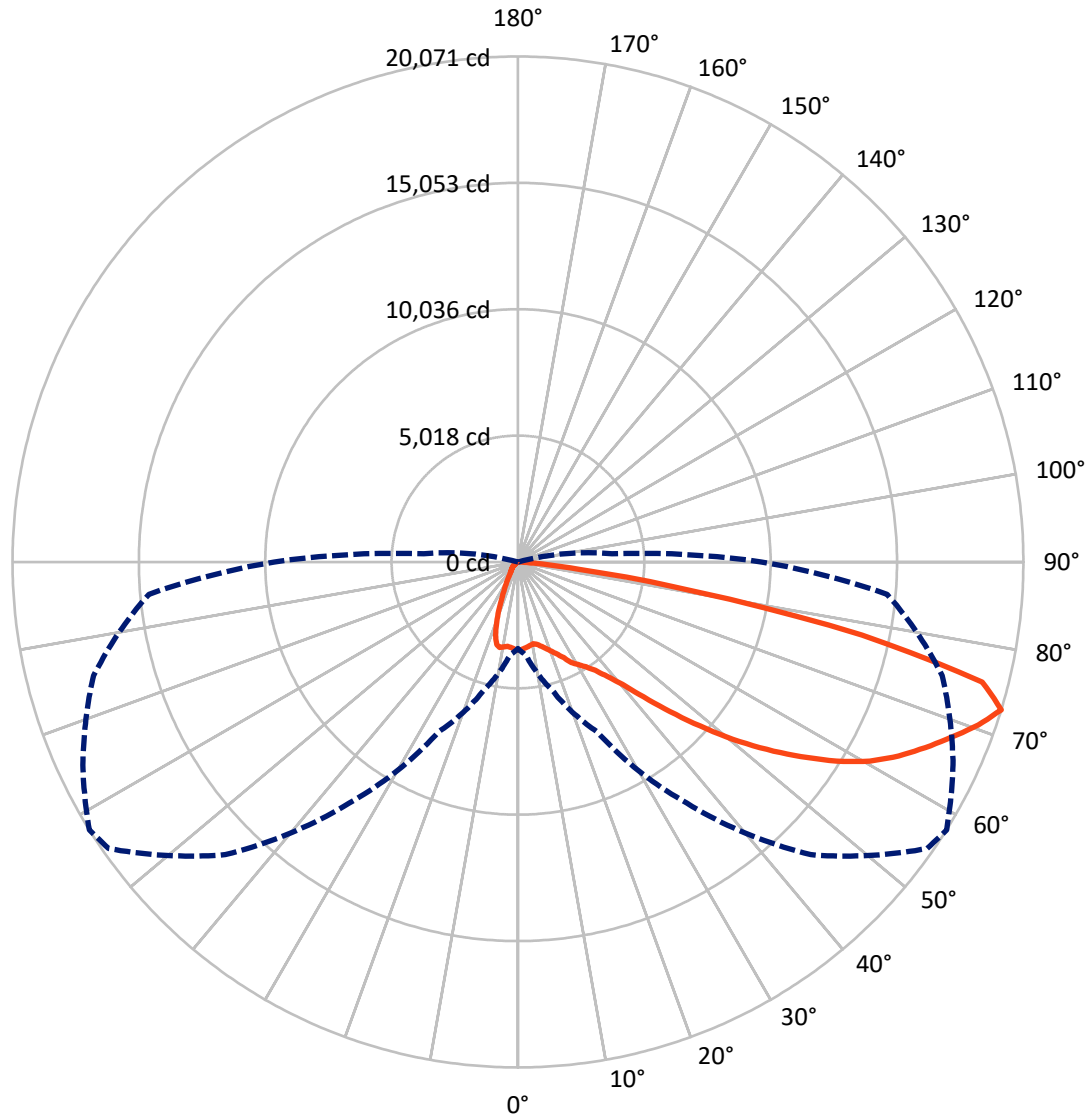
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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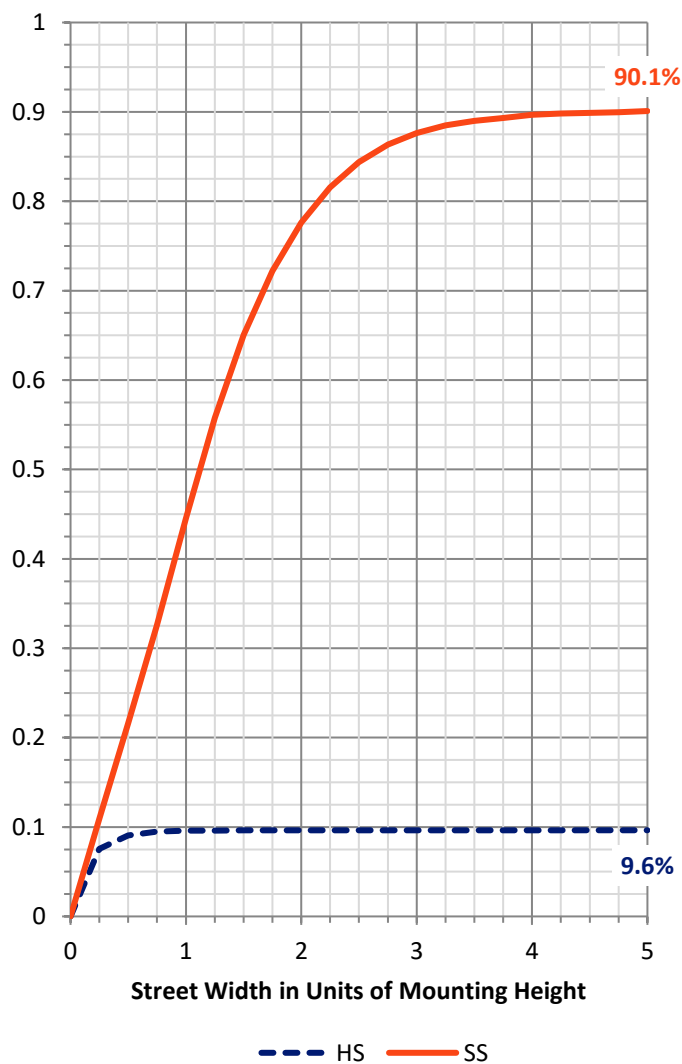
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2837.8	0.0	2837.8
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	26345.2	0.0	26345.2
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	29183.0	0.0	29183.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.4	1.1
10°-20°	837.0	2.9
20°-30°	1314.9	4.5
30°-40°	2267.7	7.8
40°-50°	4314.5	14.8
50°-60°	6832.8	23.4
60°-70°	7973.1	27.3
70°-80°	4993.6	17.1
80°-90°	327.8	1.1
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°	29183.0	100.0
0°-180°	29183.0	100.0

**Coefficient of Utilization**

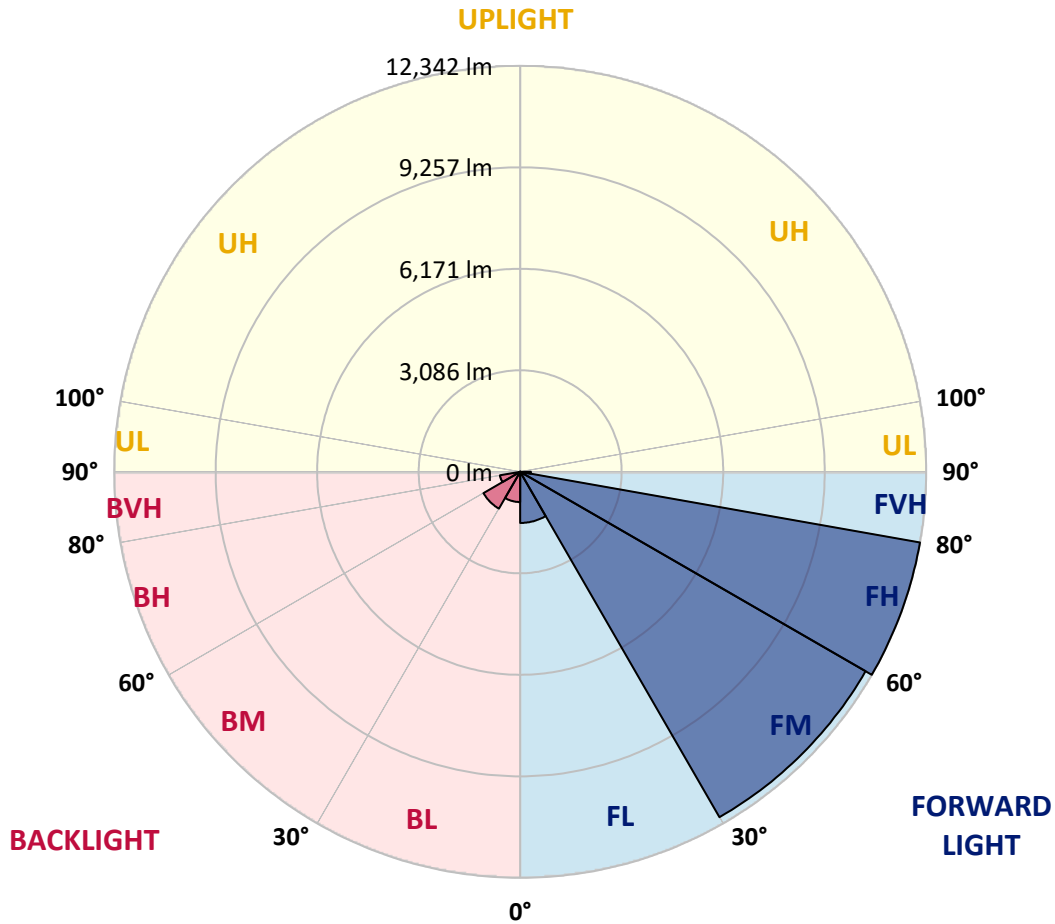


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1554.4	5.3			
FM (30°-60°)	12123.8	41.5			
FH (60°-80°)	12342.3	42.3			G5
FVH (80°-90°)	324.6	1.1			G3/500
BL (0°-30°)	919.0	3.1	B2/1000		
BM (30°-60°)	1291.3	4.4	B2/2500		
BH (60°-80°)	624.4	2.1	B2/1000		G2/1000
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3501.8	3501.8	3501.8	3501.8	3501.8	3501.8	3501.8	3501.8	3501.8	3501.8	3501.8
2.5°	3486.1	3470.5	3465.3	3460.0	3465.3	3470.5	3454.8	3470.5	3460.0	3465.3	3475.7
5°	3360.9	3345.2	3340.0	3345.2	3360.9	3387.0	3397.4	3413.1	3413.1	3428.7	3433.9
7.5°	3220.0	3209.5	3204.3	3214.8	3246.1	3303.5	3334.8	3355.7	3376.5	3407.8	3439.2
10°	3141.7	3136.5	3131.3	3146.9	3178.2	3230.4	3272.2	3303.5	3381.8	3470.5	3527.9
12.5°	3089.5	3089.5	3099.9	3131.3	3173.0	3214.8	3313.9	3355.7	3475.7	3611.4	3689.7
15°	3047.8	3047.8	3063.4	3120.8	3178.2	3277.4	3423.5	3470.5	3611.4	3778.4	3882.8
17.5°	3016.4	3026.9	3037.3	3094.7	3204.3	3371.3	3543.5	3611.4	3783.6	3966.3	4081.1
20°	3021.7	3032.1	3037.3	3094.7	3251.3	3480.9	3700.1	3778.4	3976.7	4169.8	4284.6
22.5°	3053.0	3068.6	3073.8	3152.1	3334.8	3595.7	3877.5	3966.3	4180.2	4383.8	4472.5
25°	3183.4	3193.9	3162.6	3230.4	3454.8	3773.2	4107.2	4201.1	4415.1	4602.9	4676.0
27.5°	3627.0	3637.5	3465.3	3387.0	3548.8	3919.3	4389.0	4519.4	4785.6	4910.8	4921.3
30°	4587.3	4597.7	4258.5	3888.0	3773.2	4044.5	4545.5	4728.2	5072.6	5213.5	5150.9
32.5°	5824.1	5813.7	5349.2	4801.3	4305.5	4263.7	4769.9	4963.0	5338.8	5474.5	5427.5
35°	7066.2	7081.8	6685.2	5860.7	5150.9	4676.0	5057.0	5281.4	5735.4	5928.5	5845.0
37.5°	7916.8	8021.2	7849.0	6956.6	6189.4	5437.9	5521.4	5761.5	6330.3	6591.3	6413.8
40°	9117.2	9091.1	8673.6	8016.0	7337.6	6565.2	6272.9	6387.8	7040.1	7389.8	7113.2
42.5°	10729.8	10677.6	9967.8	9325.9	8569.2	7937.7	7342.8	7321.9	7854.2	8261.3	7859.4
45°	12191.0	12112.7	11627.4	11006.3	10176.6	9451.2	8647.5	8464.8	8835.3	9179.8	8710.1
47.5°	13354.8	13224.3	12879.9	12551.1	12347.6	11220.3	10014.8	9738.2	9926.1	10181.8	9519.0
50°	14732.5	14372.4	13871.4	13673.1	14095.8	13224.3	11329.9	11063.8	11053.3	11199.4	10354.0
52.5°	15358.8	14706.4	14424.6	14591.6	15337.9	15087.4	12749.4	12368.4	12217.1	12232.8	11131.6
55°	14602.1	14529.0	14680.3	15202.2	16178.1	16032.0	14111.5	13641.8	13417.4	13135.6	11877.9
57.5°	13741.0	13965.4	14565.5	15562.3	17242.8	17018.3	15452.7	14920.4	14508.1	13861.0	12707.7
60°	12947.7	13177.3	14168.9	15645.8	17827.3	17968.2	16569.5	16063.3	15452.7	14602.1	13620.9
62.5°	11742.2	11919.6	13313.0	15525.8	17571.5	18521.3	17347.1	16966.2	16397.3	15306.6	14669.9
65°	10385.3	10500.1	11877.9	14565.5	17070.5	18458.7	17989.0	17775.1	17221.9	16042.4	15708.4
67.5°	8898.0	9033.7	10181.8	12838.1	16089.4	18166.5	18594.4	18573.5	17942.1	16856.6	16459.9
70°	7186.2	7196.7	8146.5	10646.3	14377.7	17582.0	19345.9	19392.9	18630.9	17467.2	16491.3
72.5°	3439.2	3721.0	5281.4	7431.5	11684.8	16433.8	19836.5	20071.3	19064.1	17446.3	14711.7
75°	788.0	814.1	1539.5	3533.1	6852.2	12613.7	18610.1	19048.4	18009.9	15087.4	10364.4
77.5°	287.0	302.7	433.2	1033.3	2635.5	6518.2	13318.3	13960.2	13313.0	9753.8	4900.4
80°	193.1	187.9	224.4	459.3	1210.8	1847.4	6810.5	7191.4	6565.2	3329.6	1174.2
82.5°	99.2	104.4	156.6	255.7	814.1	641.9	2275.4	2473.7	2035.3	668.0	219.2
85°	47.0	47.0	88.7	161.8	344.4	224.4	506.2	610.6	548.0	292.3	73.1
87.5°	47.0	47.0	83.5	104.4	177.4	93.9	125.3	156.6	146.1	156.6	26.1
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°	3501.8	3501.8	3501.8	3501.8	3501.8	3501.8	3501.8	3501.8	3501.8	3501.8	3501.8
2.5°	3475.7	3470.5	3465.3	3475.7	3470.5	3480.9	3480.9	3491.3	3491.3	3480.9	3475.7
5°	3428.7	3418.3	3407.8	3407.8	3402.6	3413.1	3444.4	3470.5	3475.7	3460.0	3454.8
7.5°	3433.9	3433.9	3423.5	3402.6	3366.1	3366.1	3366.1	3397.4	3413.1	3402.6	3397.4
10°	3527.9	3533.1	3507.0	3460.0	3397.4	3340.0	3230.4	3068.6	2917.3	2875.5	2859.9
12.5°	3689.7	3694.9	3642.7	3559.2	3428.7	3089.5	2672.0	2285.8	1988.3	1904.8	1889.2
15°	3882.8	3888.0	3794.0	3658.3	3261.7	2473.7	1852.7	1414.3	1153.3	1090.7	1085.5
17.5°	4081.1	4070.6	3929.7	3668.8	2765.9	1753.5	1127.3	902.8	835.0	819.3	824.6
20°	4274.2	4242.8	4049.8	3475.7	2129.3	1148.1	824.6	772.4	756.7	746.3	746.3
22.5°	4451.6	4389.0	4148.9	3094.7	1492.6	824.6	735.8	725.4	704.5	688.9	683.7
25°	4629.0	4540.3	4211.5	2598.9	1002.0	720.2	694.1	673.2	647.1	626.3	621.0
27.5°	4843.0	4717.8	4180.2	1972.7	751.5	668.0	647.1	615.8	579.3	548.0	537.5
30°	5046.5	4905.6	4002.8	1362.1	641.9	615.8	584.5	537.5	490.6	454.0	443.6
32.5°	5302.3	5140.5	3684.4	892.4	558.4	537.5	506.2	448.8	386.2	344.4	334.0
35°	5667.6	5484.9	3277.4	626.3	490.6	454.0	412.3	349.7	281.8	250.5	245.3
37.5°	6179.0	5933.7	2765.9	506.2	433.2	381.0	318.3	255.7	208.8	182.7	177.4
40°	6805.3	6429.5	2197.1	448.8	386.2	318.3	240.1	182.7	151.3	130.5	130.5
42.5°	7483.7	6894.0	1617.8	412.3	339.2	260.9	177.4	130.5	109.6	99.2	93.9
45°	8183.0	7306.3	1090.7	381.0	297.5	198.3	125.3	88.7	73.1	73.1	67.8
47.5°	8908.4	7582.8	704.5	344.4	250.5	146.1	83.5	62.6	52.2	52.2	52.2
50°	9628.6	7729.0	501.0	313.1	203.5	99.2	62.6	47.0	41.8	41.8	41.8
52.5°	10150.5	7635.0	401.8	271.4	156.6	73.1	47.0	36.5	31.3	31.3	31.3
55°	10604.5	7473.3	349.7	234.8	114.8	52.2	36.5	31.3	26.1	26.1	26.1
57.5°	11069.0	7264.5	313.1	198.3	83.5	36.5	26.1	20.9	20.9	20.9	20.9
60°	11491.7	6909.6	271.4	156.6	57.4	26.1	20.9	15.7	15.7	15.7	15.7
62.5°	11904.0	6606.9	234.8	120.0	41.8	20.9	10.4	10.4	5.2	5.2	5.2
65°	12138.8	6199.9	187.9	78.3	26.1	15.7	5.2	5.2	0.0	0.0	0.0
67.5°	12065.8	5714.5	130.5	47.0	15.7	10.4	5.2	0.0	0.0	0.0	0.0
70°	11559.5	5062.2	78.3	26.1	15.7	10.4	5.2	0.0	0.0	0.0	0.0
72.5°	9680.8	3747.1	47.0	20.9	10.4	5.2	0.0	0.0	0.0	0.0	0.0
75°	6466.0	1722.2	26.1	15.7	5.2	5.2	0.0	0.0	0.0	0.0	0.0
77.5°	2959.0	516.7	15.7	10.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	594.9	135.7	10.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	125.3	26.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.1	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.4	5.2	0.0	0.0	0.0	0.0	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)