

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: P381331

Luminaire Tested: **PRV-XL-PA4B-750-U-T4W-HSS**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381331  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)  
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-T4W-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

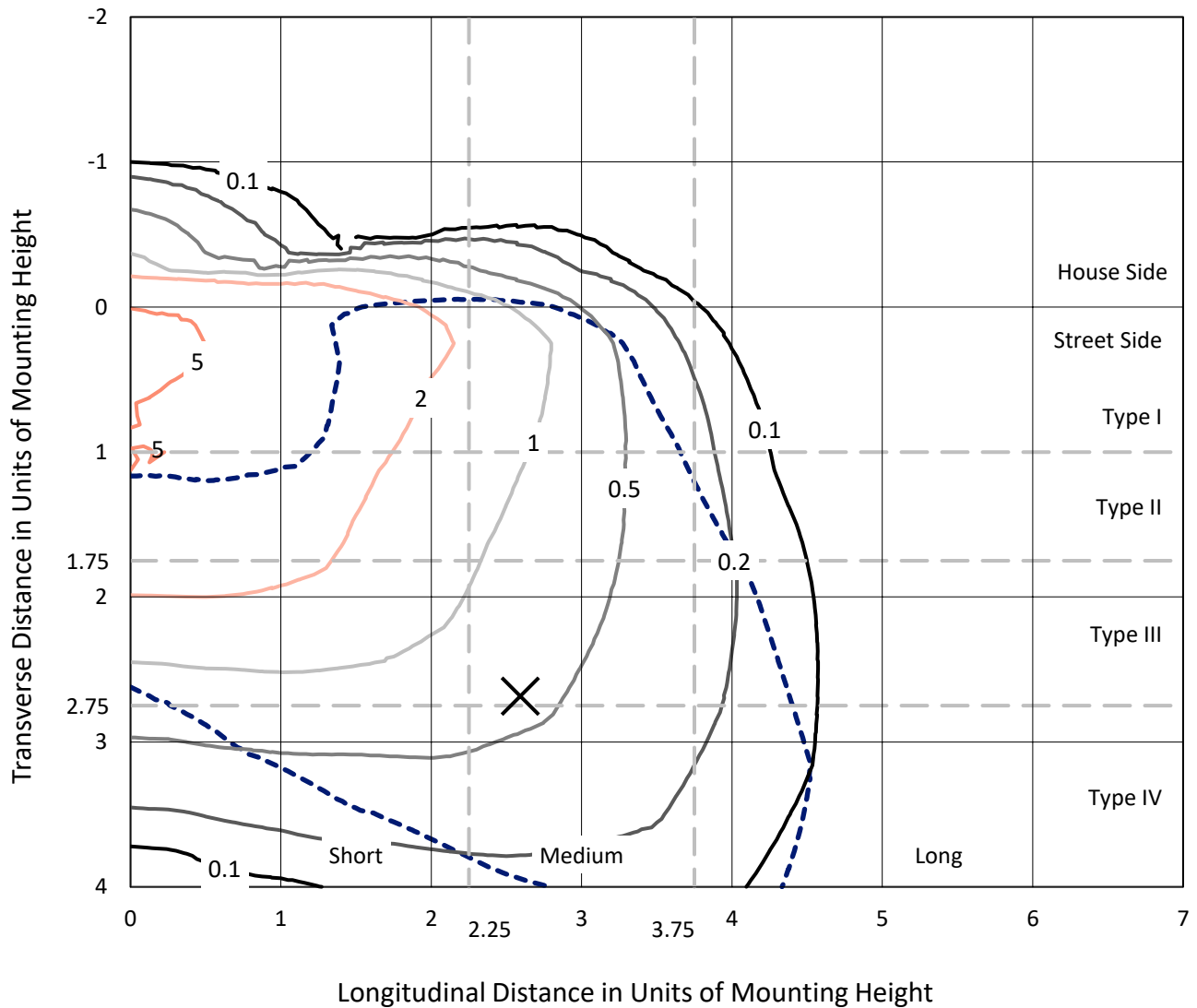
Lumens per Lamp: N/A  
Luminaire Lumens: 28286 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 303  
Input Voltage (V): NR  
Input Current (Ain): 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

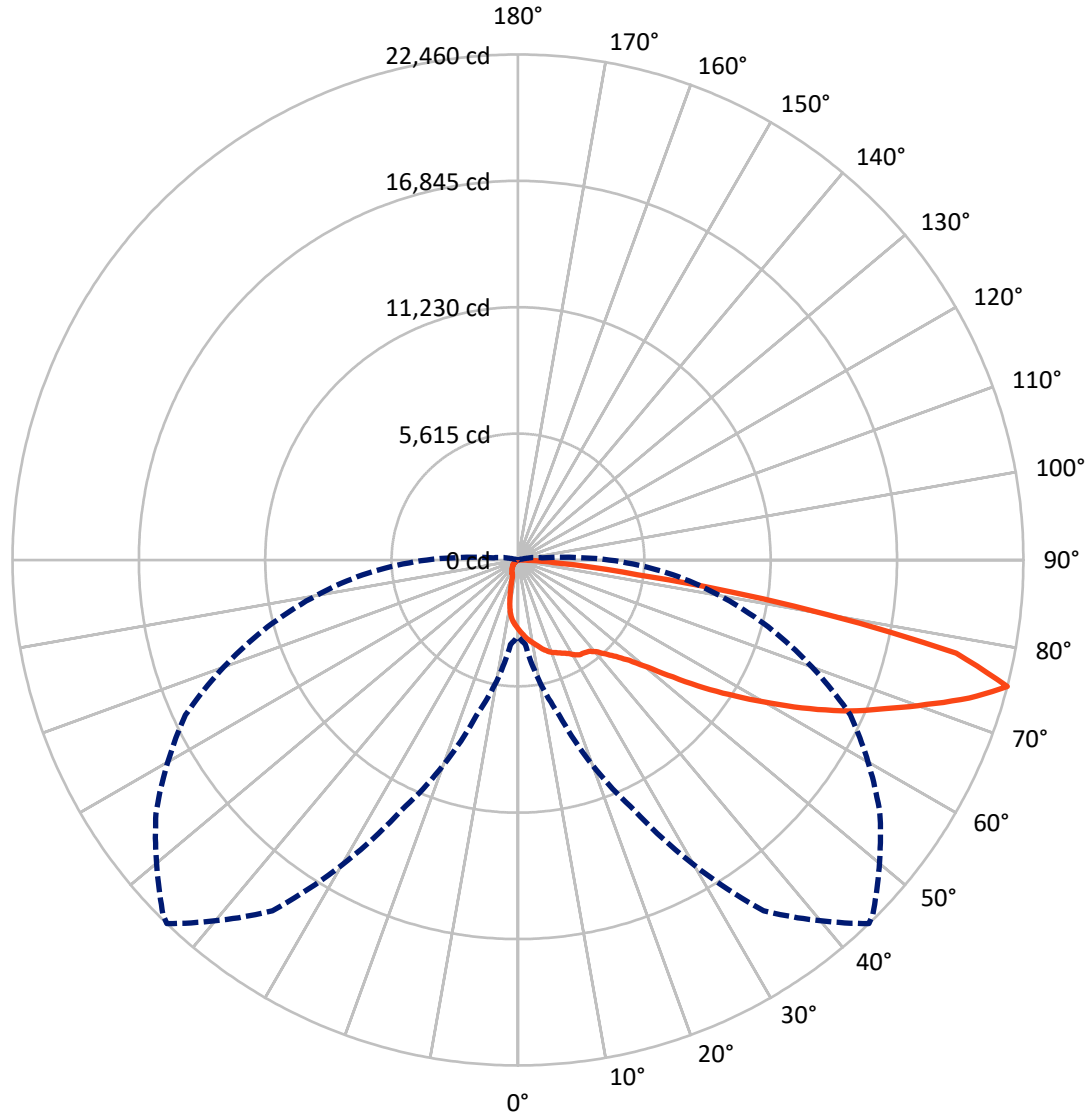
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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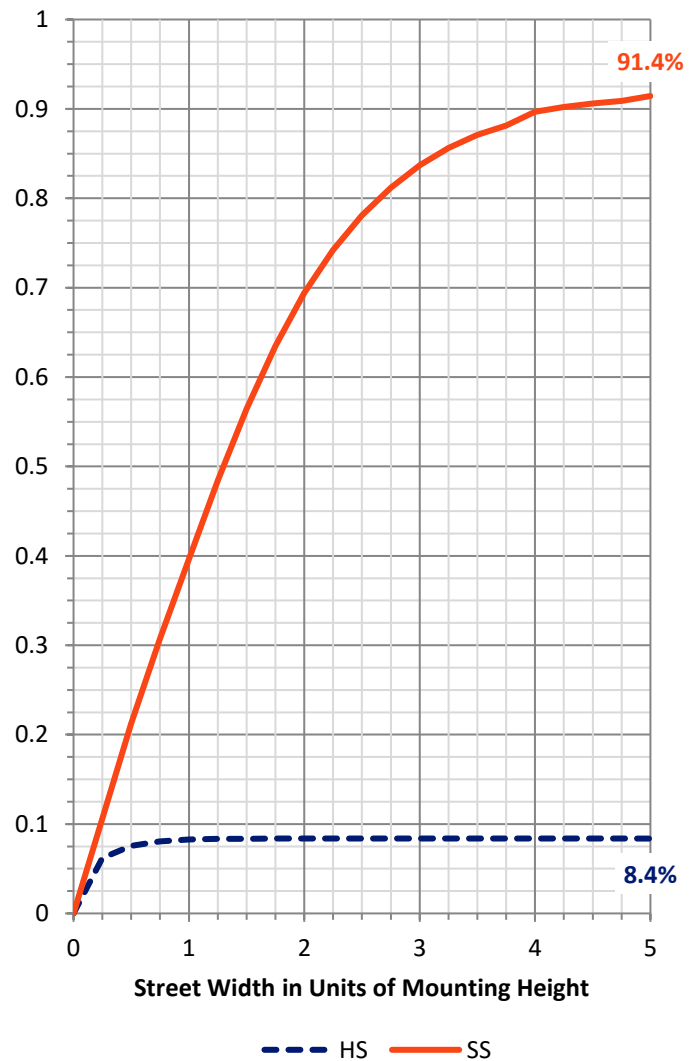
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2385.4	0.0	2385.4
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	25900.6	0.0	25900.6
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	28286.0	0.0	28286.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.4	1.0
10°-20°	813.6	2.9
20°-30°	1342.7	4.7
30°-40°	1948.8	6.9
40°-50°	3167.9	11.2
50°-60°	5584.6	19.7
60°-70°	8026.2	28.4
70°-80°	6427.2	22.7
80°-90°	684.8	2.4
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°	28286.0	100.0
0°-180°	28286.0	100.0



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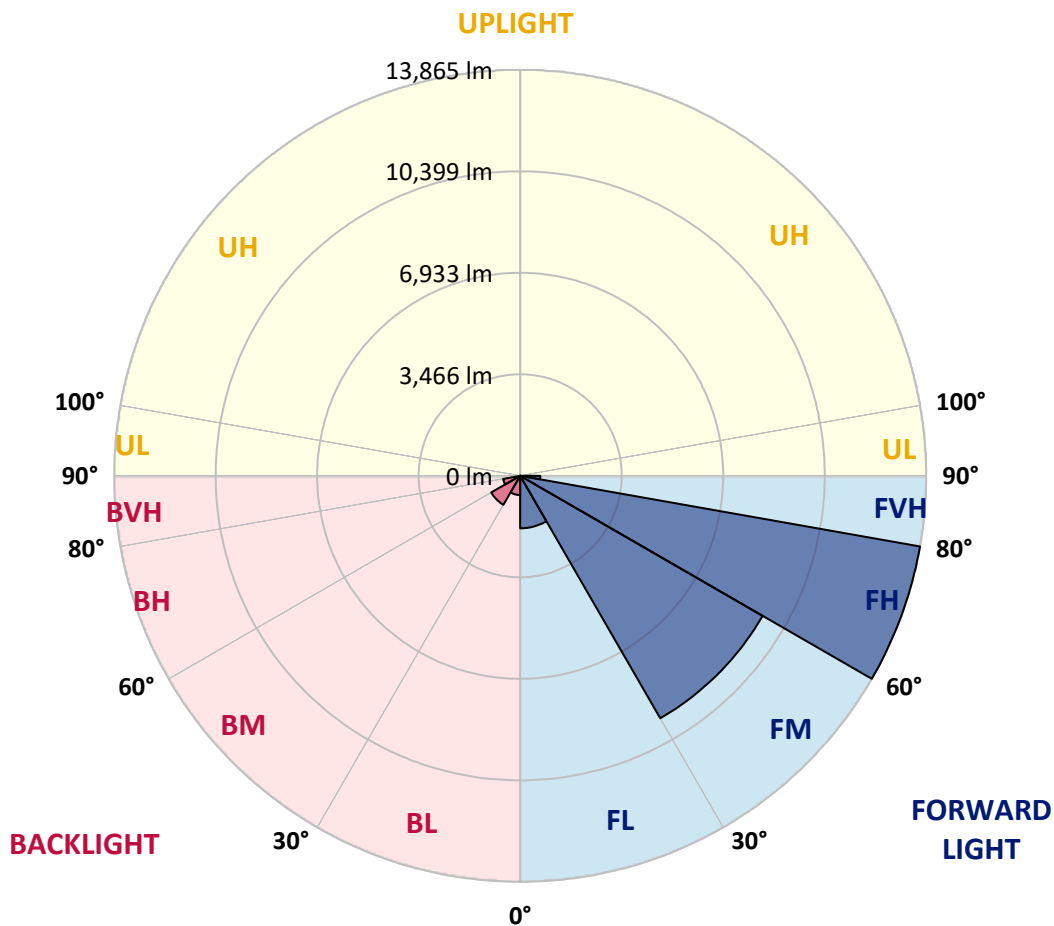
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1791.3	6.3			
FM (30°-60°)	9560.9	33.8			
FH (60°-80°)	13865.3	49.0			G5
FVH (80°-90°)	683.0	2.4			G4/750
BL (0°-30°)	655.4	2.3	B2/1000		
BM (30°-60°)	1140.3	4.0	B2/2500		
BH (60°-80°)	588.1	2.1	B2/1000		G2/1000
BVH (80°-90°)	1.7	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°	44°	45°	55°	65°	75°	85°
0°	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8
2.5°	3355.4	3350.2	3334.5	3308.4	3282.3	3256.2	3251.0	3209.3	3162.3	3125.8	3094.5
5°	3652.8	3647.6	3621.5	3564.1	3506.7	3438.9	3433.7	3334.5	3245.8	3146.7	3063.2
7.5°	3960.7	3950.3	3903.3	3814.6	3715.5	3611.1	3600.7	3454.5	3324.1	3193.6	3073.6
10°	4200.8	4190.3	4122.5	4018.1	3882.4	3752.0	3736.3	3585.0	3454.5	3287.6	3125.8
12.5°	4435.6	4414.7	4326.0	4211.2	4044.2	3919.0	3903.3	3746.8	3590.2	3418.0	3219.7
15°	4654.8	4628.7	4545.2	4399.1	4221.6	4101.6	4091.2	3924.2	3762.4	3564.1	3345.0
17.5°	4806.1	4795.7	4696.5	4534.7	4362.5	4263.4	4253.0	4080.7	3919.0	3710.2	3475.4
20°	4884.4	4884.4	4790.4	4613.0	4456.5	4388.6	4373.0	4211.2	4054.7	3856.4	3611.1
22.5°	4900.0	4915.7	4842.6	4649.5	4534.7	4477.3	4466.9	4326.0	4174.7	3992.0	3762.4
25°	4931.3	4931.3	4894.8	4686.1	4602.6	4586.9	4581.7	4456.5	4320.8	4138.1	3913.8
27.5°	4967.9	4967.9	4941.8	4738.3	4706.9	4701.7	4696.5	4639.1	4529.5	4315.6	4091.2
30°	5061.8	5067.0	5046.1	4842.6	4821.8	4879.2	4889.6	4858.3	4722.6	4456.5	4273.8
32.5°	5296.6	5249.7	5192.3	4915.7	4952.2	5025.3	5030.5	4967.9	4821.8	4607.8	4493.0
35°	5886.3	5609.7	5348.8	4978.3	4994.0	5067.0	5077.5	5072.2	4983.5	4800.9	4743.5
37.5°	6434.2	6042.8	5672.3	5124.4	5072.2	5150.5	5171.4	5260.1	5192.3	5067.0	5082.7
40°	6752.5	6601.2	6340.3	5526.2	5228.8	5348.8	5369.7	5505.4	5479.3	5427.1	5526.2
42.5°	7733.6	7744.0	7462.2	6126.3	5515.8	5708.9	5735.0	5844.5	5881.1	5907.2	6147.2
45°	8871.2	8907.7	8839.9	7206.5	6058.5	6121.1	6157.6	6303.8	6439.4	6606.4	7044.8
47.5°	10238.4	10207.1	9956.6	8526.8	7003.0	6653.4	6679.5	6961.3	7196.1	7561.4	8187.6
50°	11449.1	11527.3	11052.5	9758.3	8333.7	7493.5	7467.5	7744.0	8166.7	8678.1	9466.1
52.5°	12670.1	12555.3	11913.5	10979.4	9909.6	8636.4	8558.1	8709.4	9304.3	9909.6	10718.5
55°	12993.7	13004.1	12784.9	12315.3	11224.7	10024.4	9894.0	9883.5	10624.6	11036.8	12033.5
57.5°	13630.3	13656.4	13708.6	13802.5	13285.9	11412.5	11276.8	11130.7	11850.9	12090.9	13353.7
60°	14277.4	14308.7	14627.0	15133.2	14788.8	12910.2	12764.1	12419.7	12821.5	13145.0	14741.8
62.5°	14193.9	14413.1	15336.7	16343.9	16302.1	14554.0	14371.3	13541.6	13797.3	14079.1	16015.1
65°	12816.3	13051.1	15128.0	16677.8	17820.6	16176.9	15879.4	14700.1	14715.7	15054.9	17241.4
67.5°	11584.7	11840.4	13823.4	16536.9	18822.6	17632.8	17324.9	15863.8	15618.5	16182.1	17898.9
70°	10875.0	11130.7	12784.9	16098.6	19104.4	19245.3	18979.1	17194.4	16693.5	17210.1	17163.1
72.5°	8511.1	8912.9	11459.5	15263.7	19407.0	20972.5	20763.8	18880.0	17606.7	16135.1	13066.7
75°	3391.9	3762.4	7154.4	12284.0	19026.1	22459.8	22298.0	19636.6	16296.9	11522.1	6689.9
77.5°	1022.8	1095.9	1988.2	6074.2	13948.6	19913.2	19861.0	16510.8	11532.5	5348.8	1826.4
80°	339.2	375.7	610.5	1675.1	6366.4	12440.5	12675.4	10520.2	5239.2	1226.3	370.5
82.5°	140.9	156.6	307.9	673.2	2254.3	5359.2	5281.0	4712.2	1826.4	761.9	135.7
85°	36.5	47.0	140.9	386.2	824.5	1847.3	1941.2	1581.2	1033.2	631.4	41.7
87.5°	0.0	0.0	67.8	156.6	370.5	558.4	584.5	480.1	584.5	474.9	20.9
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°	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8
2.5°	3068.4	3042.3	2995.3	2964.0	2922.3	2911.8	2891.0	2864.9	2859.7	2833.6	2838.8
5°	3016.2	2974.5	2891.0	2833.6	2765.7	2744.8	2708.3	2682.2	2661.4	2624.8	2630.0
7.5°	3005.8	2943.1	2828.3	2718.8	2609.2	2530.9	2421.3	2332.6	2259.5	2181.3	2196.9
10°	3042.3	2964.0	2802.3	2650.9	2452.6	2202.1	1915.1	1727.3	1633.3	1539.4	1549.8
12.5°	3115.4	3021.4	2812.7	2583.1	2181.3	1753.4	1356.8	1101.1	1033.2	991.5	996.7
15°	3224.9	3110.1	2844.0	2452.6	1816.0	1268.1	902.8	793.2	819.3	834.9	834.9
17.5°	3339.7	3209.3	2870.1	2217.8	1403.7	887.1	735.8	725.4	761.9	798.4	798.4
20°	3480.6	3313.6	2875.3	1920.4	1012.4	720.1	694.0	694.0	720.1	761.9	761.9
22.5°	3616.3	3428.5	2828.3	1581.2	772.3	667.9	667.9	667.9	683.6	725.4	730.6
25°	3778.1	3569.3	2729.2	1221.1	662.7	636.6	636.6	641.9	652.3	688.8	694.0
27.5°	3950.3	3715.5	2562.2	892.3	605.3	600.1	605.3	610.5	615.8	652.3	662.7
30°	4148.6	3877.2	2348.3	667.9	553.1	553.1	568.8	579.2	579.2	610.5	621.0
32.5°	4378.2	4091.2	2092.6	553.1	501.0	495.7	521.8	537.5	537.5	563.6	574.0
35°	4665.2	4310.4	1784.7	490.5	459.2	448.8	459.2	485.3	495.7	516.6	521.8
37.5°	5046.1	4571.3	1455.9	454.0	427.9	407.0	407.0	412.2	433.1	454.0	459.2
40°	5531.4	4858.3	1132.4	427.9	396.6	375.7	360.1	354.8	349.6	365.3	375.7
42.5°	6142.0	5181.8	845.4	401.8	370.5	339.2	318.3	297.4	271.4	266.1	271.4
45°	6924.7	5578.4	626.2	380.9	354.8	307.9	271.4	234.8	187.9	172.2	177.4
47.5°	7848.4	5990.7	490.5	360.1	344.4	271.4	224.4	161.8	114.8	104.4	109.6
50°	8829.4	6387.3	417.5	334.0	323.5	234.8	161.8	99.1	67.8	67.8	73.1
52.5°	9664.4	6611.6	380.9	313.1	292.2	193.1	104.4	57.4	41.7	41.7	47.0
55°	10473.2	6731.7	354.8	292.2	250.5	135.7	57.4	36.5	26.1	26.1	26.1
57.5°	11308.2	6783.8	323.5	266.1	198.3	83.5	31.3	20.9	15.7	15.7	15.7
60°	12049.2	6684.7	276.6	219.2	130.5	41.7	15.7	15.7	10.4	5.2	5.2
62.5°	12670.1	6496.8	193.1	156.6	78.3	20.9	10.4	5.2	0.0	0.0	0.0
65°	13051.1	6194.2	125.2	104.4	47.0	15.7	5.2	0.0	0.0	0.0	0.0
67.5°	12941.5	5625.4	78.3	67.8	20.9	10.4	5.2	0.0	0.0	0.0	0.0
70°	11678.7	4613.0	57.4	41.7	15.7	5.2	0.0	0.0	0.0	0.0	0.0
72.5°	8417.2	3120.6	41.7	26.1	10.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	4049.4	1111.5	26.1	20.9	5.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	991.5	245.3	15.7	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	219.2	47.0	10.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	73.1	20.9	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°	15.7	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)