

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: P380946

Luminaire Tested: **PRV-XL-PA4A-750-U-T3**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P380946  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-XL-PA4A-750-U-T3  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

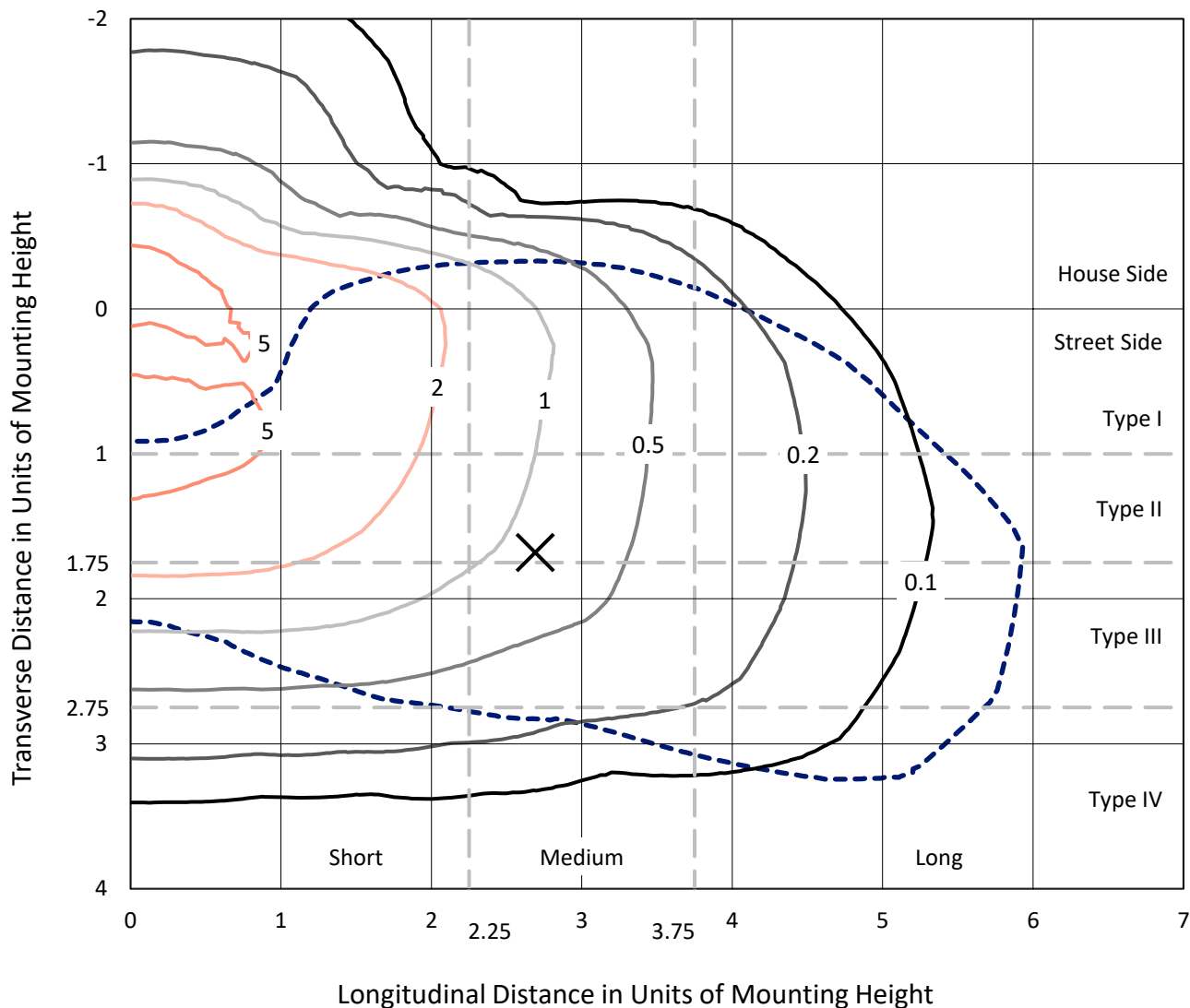
Lumens per Lamp: N/A  
Luminaire Lumens: 33932 lumens  
Efficiency: N/A  
Efficacy: 138.5 lumens/watt  
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): 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

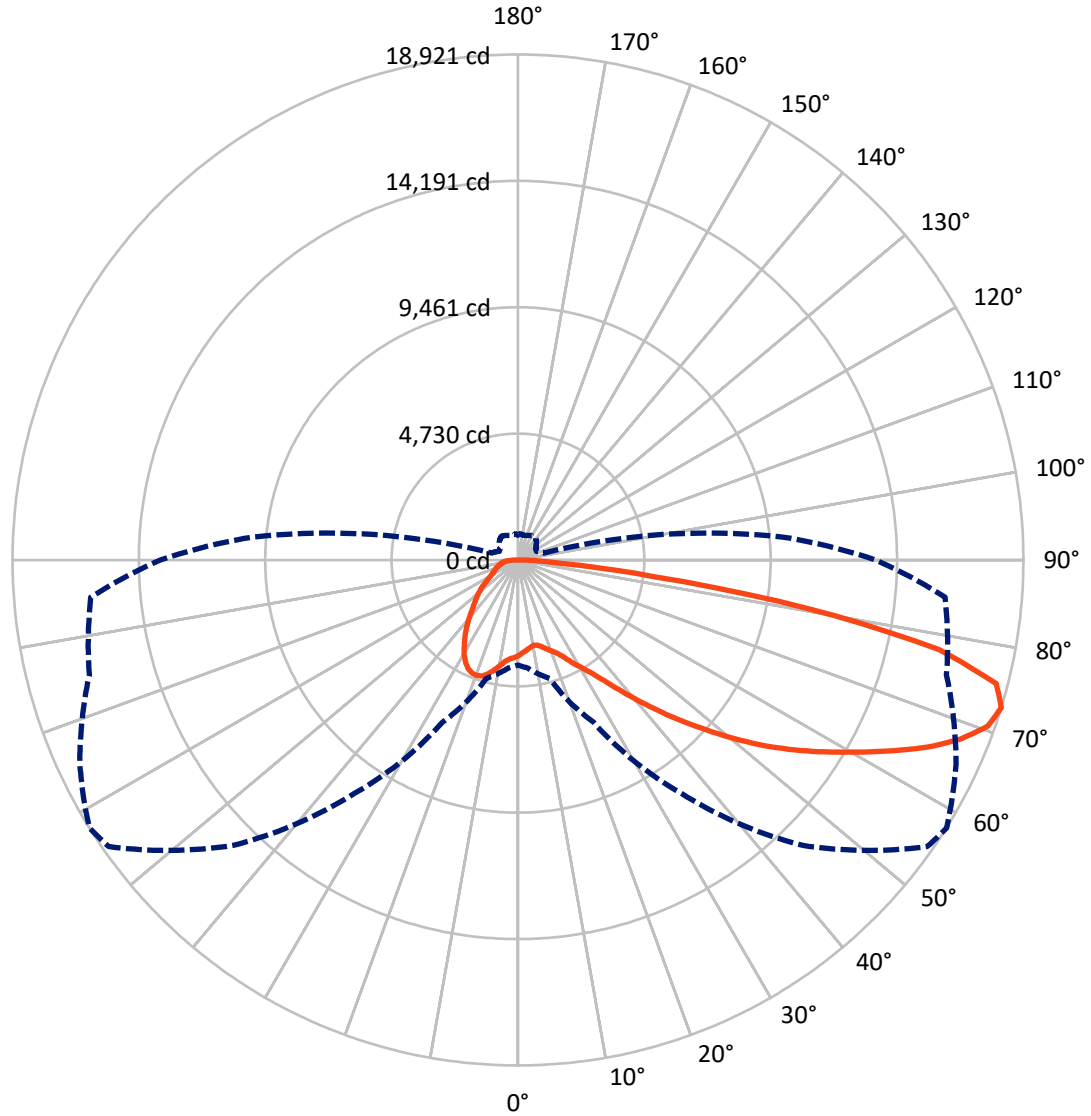
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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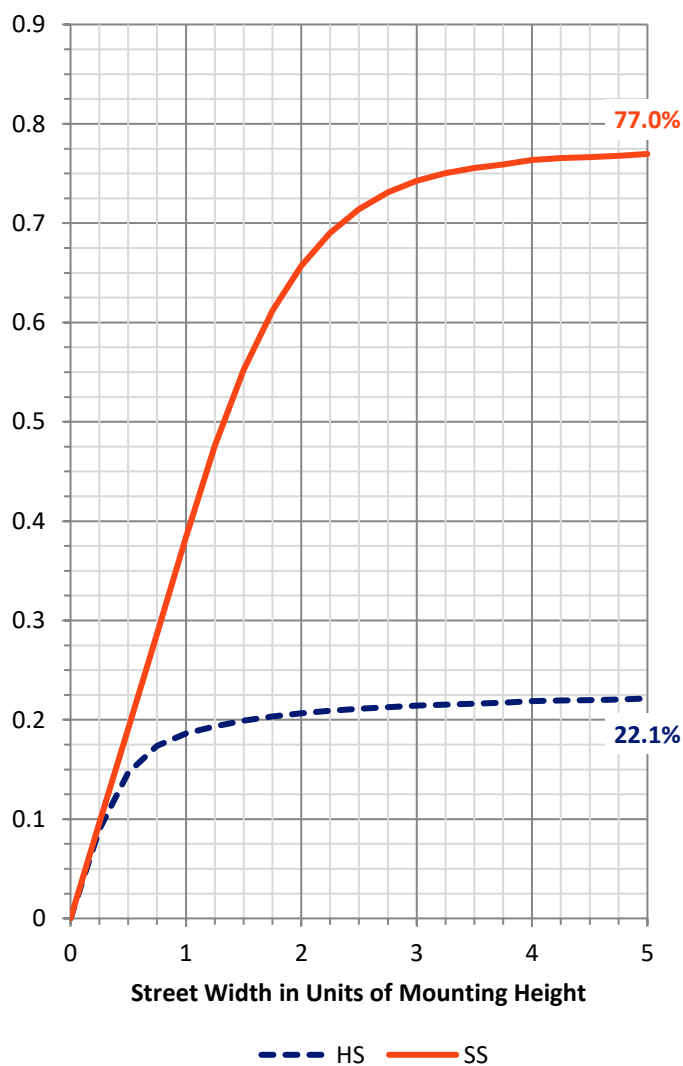
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7695.4	0.0	7695.4
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	26236.6	0.0	26236.6
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	33932.0	0.0	33932.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.8	1.0
10°-20°	1094.9	3.2
20°-30°	1961.4	5.8
30°-40°	2950.5	8.7
40°-50°	4777.9	14.1
50°-60°	7192.2	21.2
60°-70°	8464.5	24.9
70°-80°	6002.1	17.7
80°-90°	1143.7	3.4
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°	33932.0	100.0
0°-180°	33932.0	100.0

**Coefficient of Utilization**

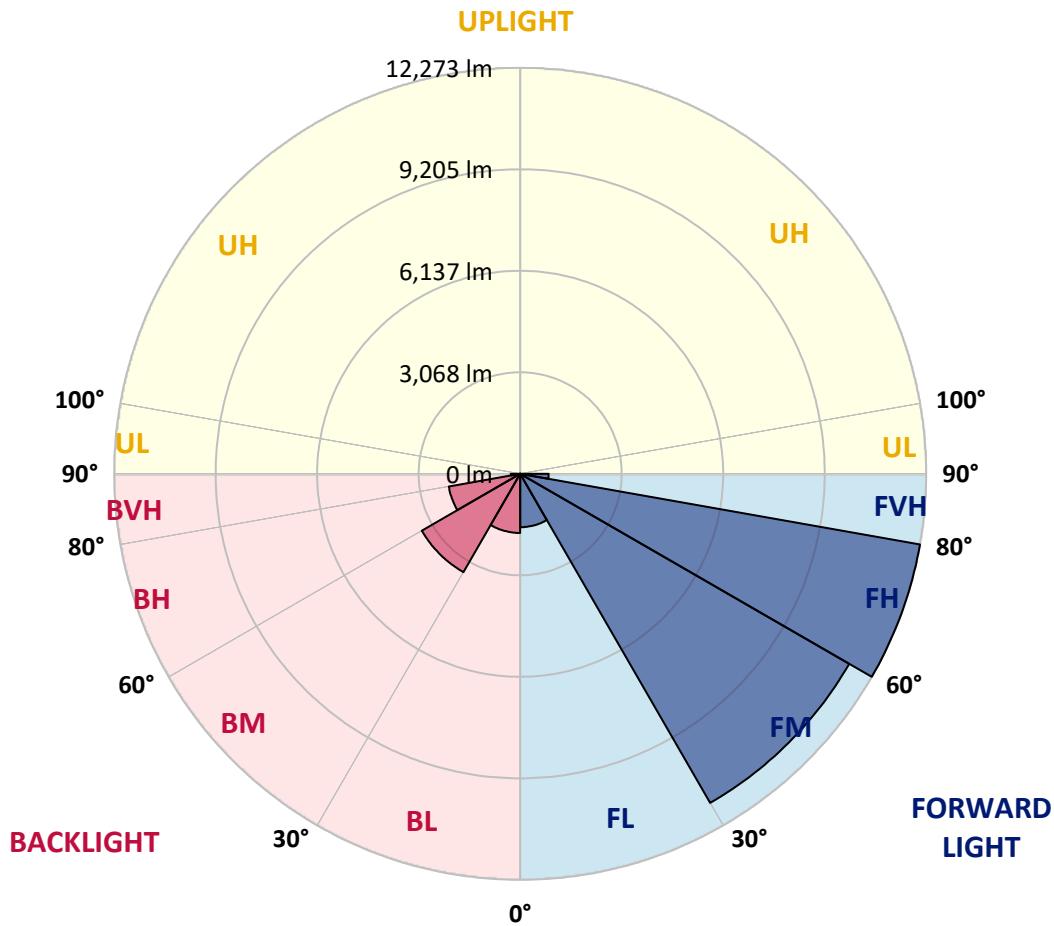


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1613.6	4.8			
FM (30°-60°)	11487.0	33.9			
FH (60°-80°)	12273.3	36.2			G5
FVH (80°-90°)	862.7	2.5			G5
BL (0°-30°)	1787.5	5.3	B3/2500		
BM (30°-60°)	3433.6	10.1	B3/5000		
BH (60°-80°)	2193.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	281.0	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1
2.5°	3444.7	3426.8	3431.3	3431.3	3449.2	3458.2	3462.6	3476.1	3485.0	3507.4	3538.8
5°	3283.5	3270.0	3274.5	3279.0	3310.3	3341.7	3368.6	3386.5	3413.4	3449.2	3494.0
7.5°	3167.0	3158.0	3162.5	3171.5	3198.3	3234.2	3279.0	3305.9	3346.2	3413.4	3489.5
10°	3081.9	3081.9	3086.4	3104.3	3131.2	3176.0	3211.8	3243.1	3323.8	3444.7	3561.2
12.5°	3014.7	3014.7	3028.1	3064.0	3108.8	3153.6	3238.7	3274.5	3382.0	3547.7	3686.6
15°	3010.2	3014.7	3019.2	3050.5	3099.8	3198.3	3323.8	3377.5	3507.4	3704.5	3865.8
17.5°	3081.9	3086.4	3068.4	3077.4	3135.6	3274.5	3440.2	3503.0	3668.7	3883.7	4049.5
20°	3301.4	3301.4	3247.6	3198.3	3238.7	3391.0	3579.1	3641.8	3825.5	4062.9	4228.6
22.5°	3749.3	3771.7	3646.3	3538.8	3476.1	3561.2	3731.4	3798.6	4004.7	4260.0	4425.7
25°	4291.3	4313.7	4143.5	3991.2	3874.8	3861.3	3973.3	4045.0	4215.2	4479.5	4618.3
27.5°	4815.4	4775.1	4618.3	4475.0	4327.2	4206.2	4291.3	4354.1	4551.2	4752.7	4837.8
30°	5227.6	5196.2	5043.9	4940.9	4802.0	4645.2	4595.9	4663.1	4824.4	5012.5	5057.3
32.5°	5684.5	5662.1	5509.8	5375.4	5258.9	5111.1	5003.6	5034.9	5124.5	5258.9	5285.8
35°	6266.8	6316.1	6154.8	5881.6	5751.7	5608.3	5532.2	5541.1	5608.3	5693.4	5648.6
37.5°	6880.5	6938.7	6947.7	6517.6	6342.9	6213.0	6132.4	6163.8	6244.4	6302.6	6163.8
40°	8018.3	7960.0	7727.1	7409.1	7140.3	7014.9	6902.9	6898.4	6956.6	7059.7	6808.8
42.5°	9527.9	9474.1	9003.8	8591.6	8166.1	8022.7	7803.3	7709.2	7736.1	7866.0	7516.6
45°	10974.7	10952.3	10576.1	10096.7	9586.1	9308.4	8806.7	8578.2	8555.8	8658.8	8242.2
47.5°	12260.3	12161.8	11888.5	11516.7	11463.0	10737.3	9814.5	9505.5	9397.9	9456.2	8990.3
50°	13635.5	13299.6	12923.3	12694.8	13084.6	12408.2	10831.4	10508.9	10244.6	10284.9	9801.1
52.5°	14365.7	13801.3	13554.9	13622.1	14146.2	13886.4	11937.8	11543.6	11118.1	11176.3	10607.4
55°	13738.6	13734.1	13841.6	14258.2	14988.3	14688.2	12990.5	12547.0	12081.2	12094.6	11534.7
57.5°	12878.5	13053.2	13608.7	14527.0	16032.1	15530.4	14025.3	13554.9	13129.4	13062.2	12587.3
60°	12094.6	12287.2	13093.5	14482.2	16394.9	16300.8	15010.7	14598.6	14253.7	14056.6	13693.8
62.5°	10903.1	11046.4	12188.7	14195.5	16090.3	16856.3	16009.7	15727.5	15467.6	15060.0	14885.3
65°	9501.0	9550.3	10755.2	13250.3	15709.5	17071.3	17004.1	16878.7	16627.8	16027.6	16063.4
67.5°	7982.4	8081.0	9138.1	11740.7	14876.4	16972.8	17774.6	17877.6	17582.0	16681.6	16816.0
70°	6365.3	6486.3	7288.1	9653.3	13460.8	16547.2	18486.8	18652.6	18083.7	16896.6	16954.8
72.5°	3937.5	4053.9	4591.5	6705.8	10670.1	15118.2	18706.3	18921.3	18097.1	16609.9	16050.0
75°	1361.8	1375.2	1796.3	3216.3	6334.0	11413.7	17989.6	18495.8	17528.2	15566.2	13967.0
77.5°	622.6	645.0	797.3	1325.9	2808.6	6159.3	14854.0	16121.6	15799.1	13935.7	10750.8
80°	430.0	439.0	551.0	792.9	1621.6	2168.1	9375.6	11028.5	11592.9	10791.1	6889.4
82.5°	322.5	331.5	425.6	537.5	1169.1	1052.7	3570.1	5124.5	6369.8	6253.4	2880.3
85°	309.1	304.6	331.5	358.4	779.4	627.1	1155.7	1585.7	2486.1	2127.8	725.7
87.5°	134.4	147.8	340.4	201.6	407.6	291.2	501.7	586.8	757.0	658.5	259.8
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°	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1	3579.1
2.5°	3552.2	3561.2	3588.1	3628.4	3650.8	3695.6	3726.9	3744.8	3758.3	3762.8	3762.8
5°	3520.9	3538.8	3597.0	3664.2	3726.9	3821.0	3906.1	3955.4	3991.2	4004.7	4009.1
7.5°	3529.8	3574.6	3659.7	3758.3	3838.9	3959.9	4062.9	4161.4	4242.1	4273.4	4273.4
10°	3614.9	3677.7	3794.1	3924.0	4027.1	4152.5	4260.0	4345.1	4439.2	4492.9	4501.9
12.5°	3744.8	3821.0	3973.3	4116.6	4233.1	4331.7	4430.2	4492.9	4537.7	4578.0	4587.0
15°	3928.5	4022.6	4174.9	4322.7	4425.7	4488.4	4515.3	4515.3	4510.8	4515.3	4524.3
17.5°	4112.2	4201.8	4354.1	4501.9	4551.2	4515.3	4484.0	4475.0	4470.5	4461.6	4466.0
20°	4291.3	4376.5	4506.4	4618.3	4578.0	4452.6	4412.3	4407.8	4394.4	4385.4	4376.5
22.5°	4470.5	4533.2	4640.7	4681.1	4519.8	4340.6	4291.3	4264.5	4246.5	4224.1	4201.8
25°	4676.6	4694.5	4775.1	4712.4	4376.5	4134.6	4062.9	4022.6	4004.7	3982.3	3964.3
27.5°	4869.2	4869.2	4882.6	4663.1	4165.9	3861.3	3753.8	3682.1	3677.7	3673.2	3668.7
30°	5043.9	5021.5	4976.7	4515.3	3892.7	3525.4	3364.1	3292.4	3319.3	3341.7	3346.2
32.5°	5250.0	5205.2	5079.7	4313.7	3565.7	3149.1	2952.0	2920.6	2952.0	2978.9	2960.9
35°	5572.5	5491.8	5187.2	4080.8	3252.1	2804.2	2616.0	2571.2	2562.3	2557.8	2521.9
37.5°	6033.9	5895.0	5272.3	3830.0	2943.0	2499.5	2360.7	2266.6	2181.5	2091.9	2078.5
40°	6598.3	6360.9	5330.6	3543.3	2616.0	2244.2	2096.4	1975.5	1832.1	1675.3	1657.4
42.5°	7216.4	6862.6	5357.5	3225.2	2329.3	2033.7	1850.0	1697.7	1536.5	1415.5	1393.1
45°	7883.9	7404.6	5335.1	2920.6	2096.4	1854.5	1648.4	1482.7	1352.8	1267.7	1249.8
47.5°	8533.4	8027.2	5272.3	2678.7	1917.2	1702.2	1491.7	1339.4	1240.8	1146.7	1124.3
50°	9366.6	8623.0	5196.2	2490.6	1720.1	1549.9	1393.1	1231.9	1119.9	1075.1	1066.1
52.5°	10289.4	9218.8	5106.6	2253.2	1527.5	1429.0	1330.4	1187.1	1151.2	1066.1	1052.7
55°	11288.3	9926.5	5088.7	1953.1	1357.3	1343.8	1267.7	1227.4	1236.3	1066.1	1043.7
57.5°	12341.0	10683.6	5129.0	1652.9	1218.4	1267.7	1294.6	1263.2	1249.8	1088.5	1043.7
60°	13438.4	11413.7	5008.1	1375.2	1110.9	1205.0	1325.9	1245.3	1146.7	1079.6	1048.2
62.5°	14504.6	12027.4	4484.0	1178.1	1030.3	1187.1	1308.0	1178.1	1066.1	1066.1	1052.7
65°	15279.5	12300.7	3507.4	1034.8	976.5	1164.7	1276.7	1133.3	1043.7	1075.1	1057.2
67.5°	15369.1	12018.4	2356.2	922.8	931.7	1124.3	1205.0	1093.0	1021.3	1102.0	1075.1
70°	14818.1	11283.8	1442.4	837.7	873.5	1052.7	1142.3	1052.7	990.0	1079.6	1039.2
72.5°	13389.2	9913.1	1016.8	766.0	810.8	985.5	1084.0	1016.8	945.2	976.5	936.2
75°	10983.7	7682.3	806.3	698.8	748.1	922.8	1034.8	963.1	891.4	878.0	851.1
77.5°	7780.9	4922.9	649.5	645.0	680.9	846.6	967.6	900.4	828.7	801.8	783.9
80°	4475.0	2414.4	559.9	582.3	618.2	770.5	886.9	828.7	761.5	721.2	694.3
82.5°	1711.2	842.1	492.7	506.2	546.5	689.8	806.3	757.0	689.8	725.7	609.2
85°	555.5	461.4	403.2	416.6	456.9	573.4	712.2	671.9	595.8	528.6	488.3
87.5°	246.4	250.9	215.0	237.4	286.7	380.8	519.6	492.7	434.5	362.8	349.4
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)