

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: P381002

Luminaire Tested: **PRV-XL-PA4A-740-U-T4W**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA4A-740-U-T4W
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33525 lumens
Efficiency: N/A
Efficacy: 136.8 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

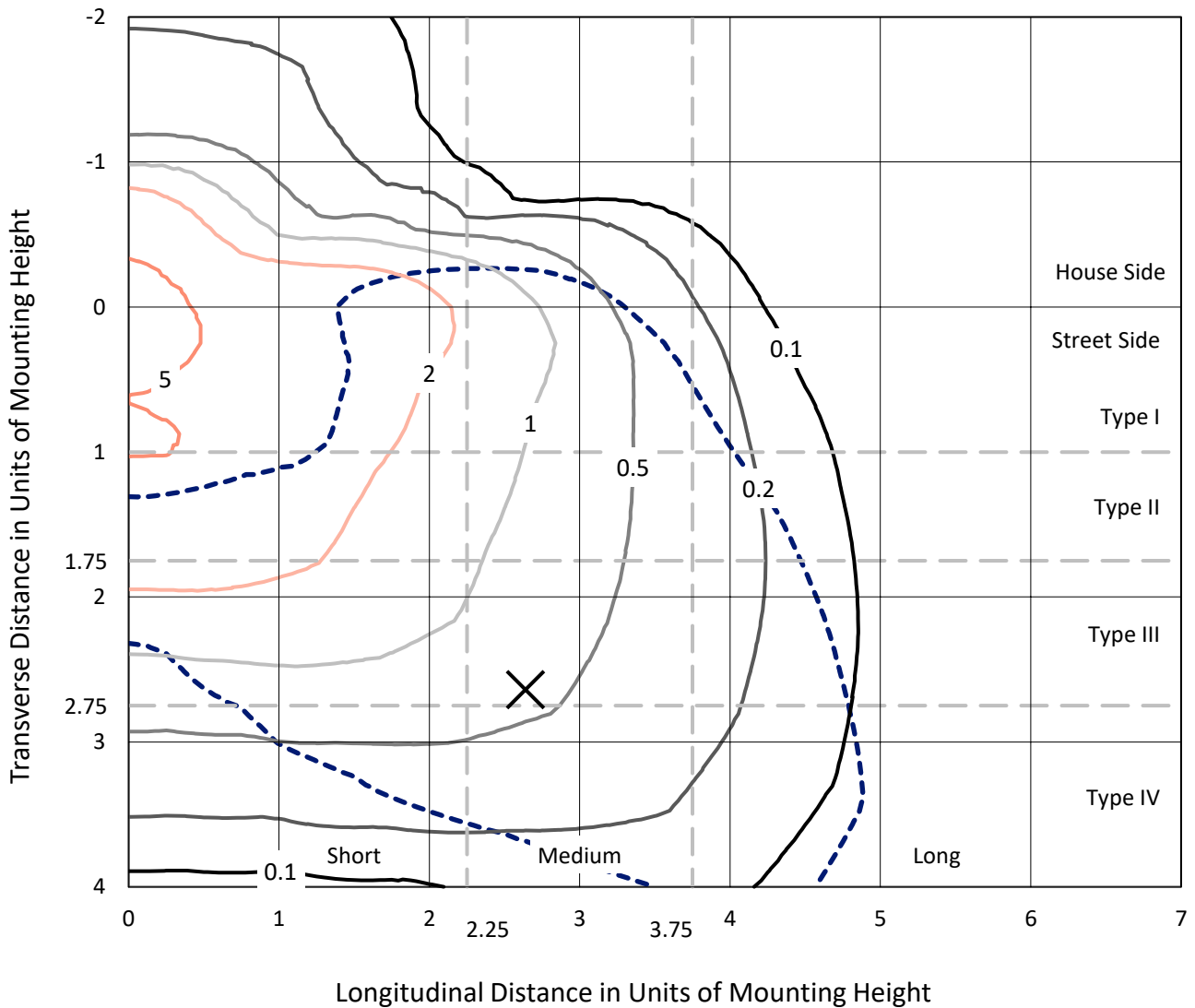
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

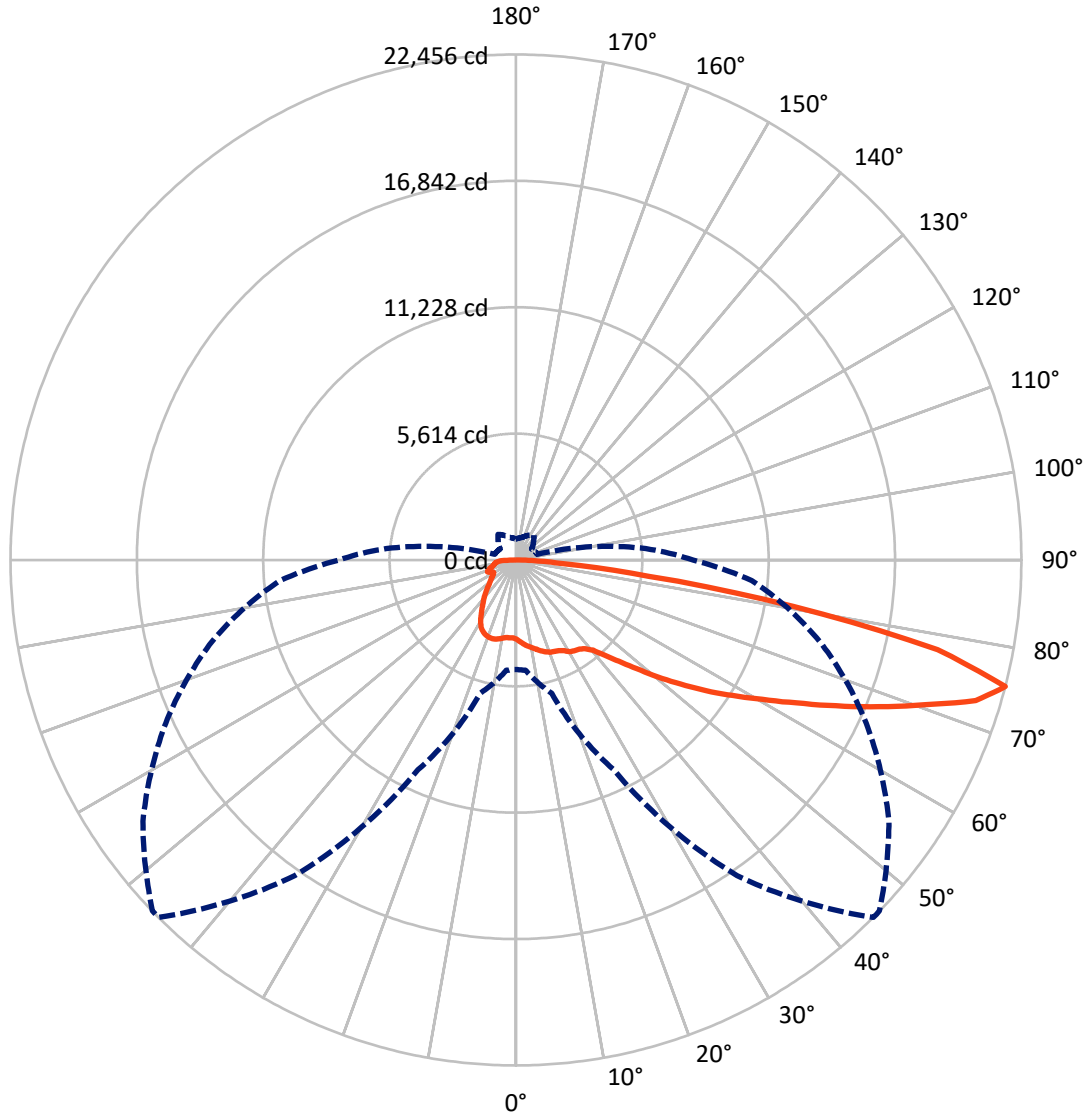
× Max cd
 - - - 1/2 Max cd



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 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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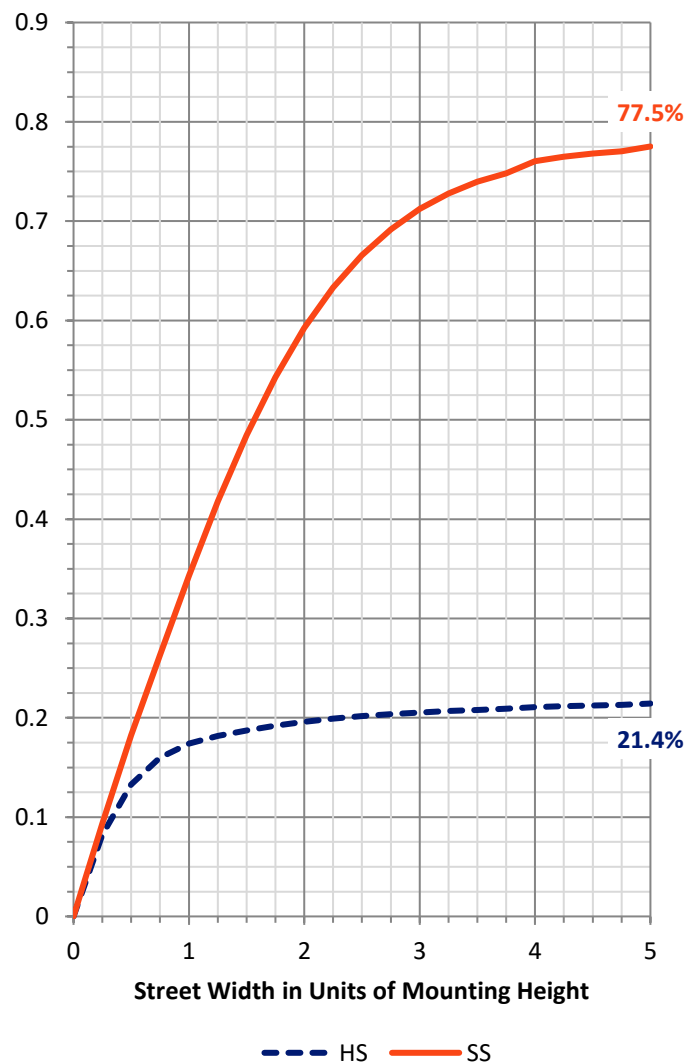
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7408.9	0.0	7408.9
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	26116.1	0.0	26116.1
	% Fixture	77.9	0.0	77.9
Total	Lumens	33525.0	0.0	33525.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.3	1.0
10°-20°	1108.1	3.3
20°-30°	1889.2	5.6
30°-40°	2647.0	7.9
40°-50°	3888.8	11.6
50°-60°	6189.0	18.5
60°-70°	8803.9	26.3
70°-80°	7371.5	22.0
80°-90°	1279.3	3.8
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°	33525.0	100.0
0°-180°	33525.0	100.0



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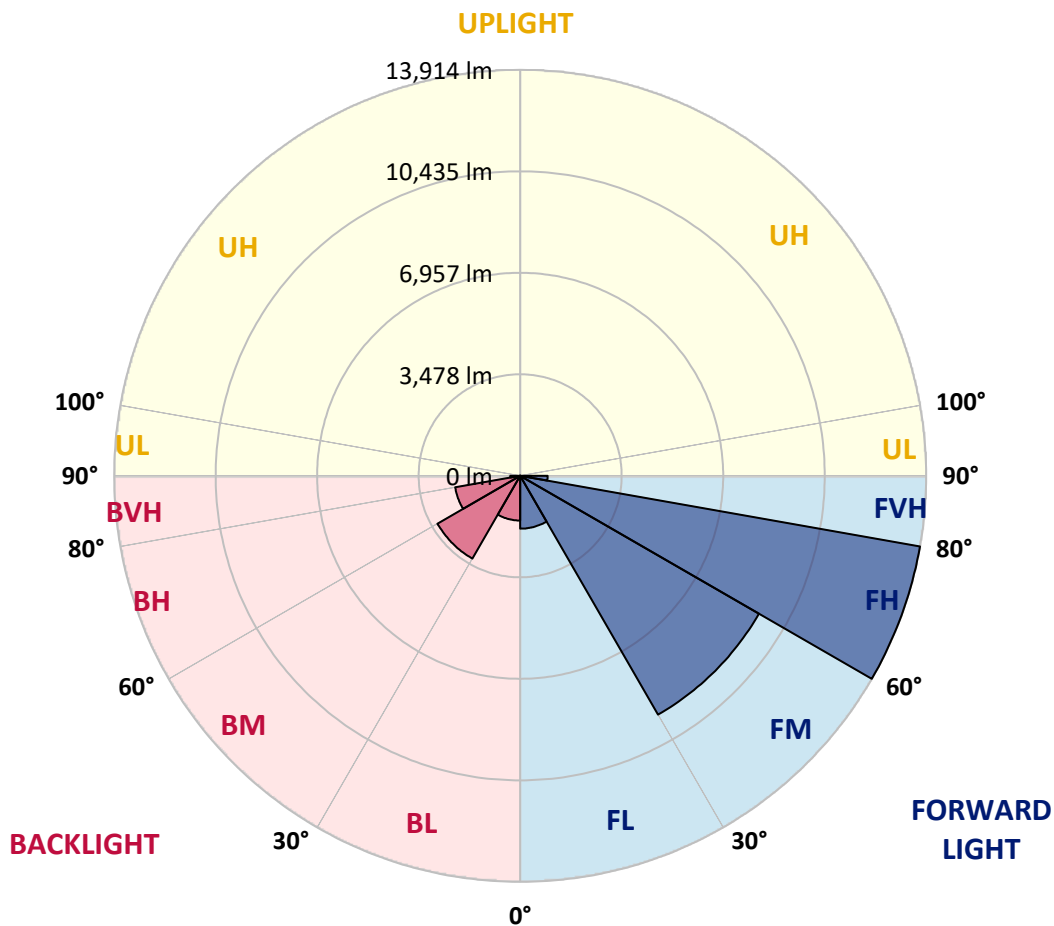
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1812.2	5.4			
FM (30°-60°)	9449.7	28.2			
FH (60°-80°)	13913.7	41.5			G5
FVH (80°-90°)	940.5	2.8			G5
BL (0°-30°)	1533.4	4.6	B3/2500		
BM (30°-60°)	3275.1	9.8	B3/5000		
BH (60°-80°)	2261.7	6.7	B3/2500		G3/2500
BVH (80°-90°)	338.8	1.0			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°	46°	55°	65°	75°	85°
0°	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9
2.5°	3722.4	3704.5	3695.6	3695.6	3659.7	3637.3	3632.8	3601.5	3574.6	3547.7	3525.3
5°	3937.4	3924.0	3897.1	3874.7	3825.5	3762.7	3753.8	3686.6	3619.4	3556.7	3502.9
7.5°	4134.5	4107.7	4076.3	4031.5	3950.9	3865.8	3852.3	3758.3	3664.2	3570.1	3498.5
10°	4300.3	4273.4	4228.6	4165.9	4062.9	3959.8	3946.4	3847.9	3749.3	3637.3	3534.3
12.5°	4457.1	4434.7	4367.5	4282.4	4161.4	4067.4	4053.9	3968.8	3865.8	3740.4	3606.0
15°	4591.5	4569.1	4497.4	4398.8	4260.0	4188.3	4170.4	4089.8	3986.7	3852.3	3713.5
17.5°	4658.6	4658.6	4582.5	4475.0	4345.1	4291.3	4277.9	4179.3	4085.3	3955.4	3816.5
20°	4681.0	4690.0	4636.2	4506.3	4394.4	4372.0	4358.5	4277.9	4170.4	4045.0	3915.1
22.5°	4694.5	4712.4	4667.6	4519.8	4425.7	4412.3	4403.3	4349.6	4264.4	4143.5	4013.6
25°	4739.3	4739.3	4707.9	4542.2	4466.0	4461.5	4461.5	4430.2	4372.0	4268.9	4139.0
27.5°	4806.5	4802.0	4761.7	4591.5	4555.6	4569.1	4564.6	4560.1	4519.8	4416.8	4277.9
30°	4918.5	4918.5	4873.7	4690.0	4667.6	4725.8	4730.3	4739.3	4676.6	4515.3	4403.3
32.5°	5088.7	5070.8	5026.0	4788.5	4752.7	4806.5	4815.4	4810.9	4757.2	4604.9	4551.1
35°	5612.8	5572.5	5411.2	5008.0	4828.9	4860.2	4864.7	4887.1	4896.1	4775.1	4748.2
37.5°	6531.1	6477.3	6230.9	5527.7	5070.8	4994.6	4990.1	5048.4	5097.6	4990.1	4990.1
40°	7530.0	7485.2	7341.8	6423.6	5518.7	5267.8	5249.9	5303.7	5366.4	5290.2	5312.6
42.5°	8390.0	8425.9	8439.3	7373.2	6190.6	5778.5	5729.2	5653.1	5751.6	5684.4	5774.0
45°	9035.1	9017.2	9263.5	8345.2	7059.6	6419.1	6351.9	6145.8	6271.2	6266.8	6463.9
47.5°	9720.4	9689.1	9792.1	9259.1	8049.6	7203.0	7100.0	6795.3	6983.5	7113.4	7440.4
50°	10370.0	10378.9	10414.8	9980.2	9124.7	8157.1	8027.2	7619.6	7888.3	8161.6	8623.0
52.5°	11216.6	11153.9	11109.1	10822.4	10329.6	9151.5	9066.4	8600.6	8976.8	9299.4	9913.1
55°	11955.7	11915.4	11888.5	11875.1	11337.5	10249.0	10159.4	9675.6	10217.7	10446.1	11351.0
57.5°	12744.1	12721.7	12865.0	13093.5	12878.5	11364.4	11270.3	10804.5	11409.2	11570.5	12909.8
60°	13321.9	13335.4	13729.6	14311.9	14164.1	12573.9	12461.9	12049.8	12569.4	12712.7	14468.7
62.5°	13326.4	13460.8	14374.6	15418.3	15588.5	13967.0	13837.1	13389.1	13760.9	13760.9	15866.3
65°	12054.2	12206.5	14258.1	15691.6	17030.9	15624.4	15498.9	14795.7	14934.5	14746.4	17178.7
67.5°	10786.5	10965.7	12896.4	15714.0	18043.3	17398.2	17250.4	16202.2	15964.8	15490.0	18097.0
70°	9944.4	10069.8	11682.4	15422.8	18652.5	19252.7	19140.7	17537.1	16775.6	16112.6	17904.4
72.5°	8372.1	8327.3	9868.3	14038.6	18992.9	21358.1	21264.0	18988.4	17478.9	15817.0	15270.5
75°	4860.2	4914.0	6123.4	10284.8	17120.5	22455.6	22446.6	20229.3	17169.8	13971.4	10522.3
77.5°	1402.1	1442.4	2011.3	4519.8	10826.9	19154.2	19767.9	18500.2	14513.5	9957.8	5456.0
80°	613.7	645.0	873.5	1505.1	4663.1	12511.1	13048.7	12511.1	8752.9	4569.1	2141.2
82.5°	362.8	385.2	568.9	931.7	2235.3	5953.2	6678.9	5832.3	3776.2	1939.6	886.9
85°	206.1	215.0	327.0	591.3	1406.6	2083.0	2338.3	2190.5	1841.1	1101.9	465.9
87.5°	94.1	98.5	161.3	277.7	788.4	703.3	730.2	967.6	1066.1	671.9	232.9
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°	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9
2.5°	3516.4	3502.9	3476.1	3467.1	3453.7	3458.1	3462.6	3462.6	3467.1	3453.7	3453.7
5°	3480.5	3458.1	3431.3	3431.3	3431.3	3467.1	3498.5	3516.4	3525.3	3525.3	3516.4
7.5°	3467.1	3440.2	3408.9	3417.8	3426.8	3471.6	3529.8	3588.1	3606.0	3606.0	3597.0
10°	3494.0	3467.1	3444.7	3458.1	3480.5	3516.4	3561.2	3614.9	3659.7	3664.2	3659.7
12.5°	3556.7	3525.3	3502.9	3529.8	3556.7	3579.1	3601.5	3623.9	3682.1	3691.1	3691.1
15°	3659.7	3628.4	3601.5	3623.9	3632.8	3632.8	3632.8	3632.8	3691.1	3700.0	3700.0
17.5°	3762.7	3735.9	3709.0	3713.5	3686.6	3650.8	3637.3	3632.8	3664.2	3691.1	3695.6
20°	3861.3	3838.9	3812.0	3767.2	3700.0	3632.8	3610.4	3610.4	3628.4	3668.7	3668.7
22.5°	3968.8	3941.9	3897.1	3794.1	3682.1	3588.1	3565.7	3579.1	3601.5	3655.2	3650.8
25°	4089.8	4053.9	3977.8	3785.1	3623.9	3511.9	3516.4	3556.7	3597.0	3655.2	3655.2
27.5°	4224.1	4174.9	4022.6	3713.5	3494.0	3386.5	3426.8	3520.9	3579.1	3641.8	3650.8
30°	4372.0	4327.2	4058.4	3588.1	3283.4	3184.9	3283.4	3435.7	3525.3	3583.6	3597.0
32.5°	4551.1	4515.3	4089.8	3426.8	3010.2	2925.1	3068.4	3256.6	3399.9	3467.1	3480.5
35°	4775.1	4739.3	4130.1	3243.1	2754.9	2665.3	2795.2	2987.8	3175.9	3261.0	3287.9
37.5°	5066.3	5012.5	4165.9	3046.0	2539.9	2436.8	2499.5	2674.2	2844.5	2960.9	2992.3
40°	5438.1	5353.0	4197.3	2822.1	2351.7	2235.3	2257.6	2342.8	2441.3	2544.3	2584.7
42.5°	5962.2	5791.9	4201.7	2584.7	2159.1	2051.6	2042.6	2069.5	2069.5	2069.5	2083.0
45°	6692.3	6369.8	4210.7	2360.7	1962.0	1850.0	1823.1	1814.2	1747.0	1617.1	1608.1
47.5°	7615.1	7126.8	4251.0	2172.5	1755.9	1657.4	1621.6	1585.7	1460.3	1325.9	1299.0
50°	8797.7	8004.8	4331.6	1993.4	1581.3	1514.1	1469.3	1384.2	1245.3	1142.3	1115.4
52.5°	10159.4	9048.5	4407.8	1805.2	1451.3	1406.6	1352.8	1249.8	1101.9	1039.2	1030.3
55°	11722.8	10213.2	4560.1	1639.5	1339.4	1308.0	1258.7	1160.2	1048.2	1003.4	998.9
57.5°	13321.9	11516.7	4775.1	1491.7	1231.9	1213.9	1213.9	1128.8	1057.2	1039.2	1039.2
60°	14862.9	12636.6	4609.4	1352.8	1133.3	1142.3	1227.4	1205.0	1151.2	1173.6	1187.1
62.5°	16058.9	13295.0	3740.4	1240.8	1061.6	1142.3	1361.8	1361.8	1299.0	1290.1	1290.1
65°	16569.5	13286.1	2629.4	1155.7	1034.8	1254.2	1518.5	1446.9	1281.1	1218.4	1205.0
67.5°	16439.6	12703.8	1814.2	1097.5	1025.8	1370.7	1590.2	1388.6	1200.5	1146.7	1106.4
70°	15297.4	11471.9	1397.6	1043.7	1012.4	1321.4	1567.8	1321.4	1137.8	1088.5	1052.7
72.5°	12340.9	9200.8	1160.2	990.0	958.6	1222.9	1491.7	1258.7	1088.5	1034.8	998.9
75°	7870.4	5787.5	981.0	918.3	855.6	1097.5	1388.6	1196.0	1034.8	963.1	936.2
77.5°	3785.1	2495.1	855.6	833.2	770.5	1016.8	1285.6	1115.4	963.1	904.9	886.9
80°	1532.0	1142.3	743.6	748.1	707.8	967.6	1213.9	1039.2	891.4	828.7	797.3
82.5°	797.3	663.0	627.1	645.0	645.0	922.8	1160.2	976.5	828.7	801.8	698.8
85°	430.0	412.1	483.8	519.6	559.9	833.2	1079.6	909.3	757.0	649.5	627.1
87.5°	210.5	268.8	273.2	313.6	389.7	667.4	909.3	761.5	631.6	524.1	515.1
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)