

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: P285789

Luminaire Tested: **PRV-XL-C175-D-UNV-T3-BZ-7030**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-7)
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-7030
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47727 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

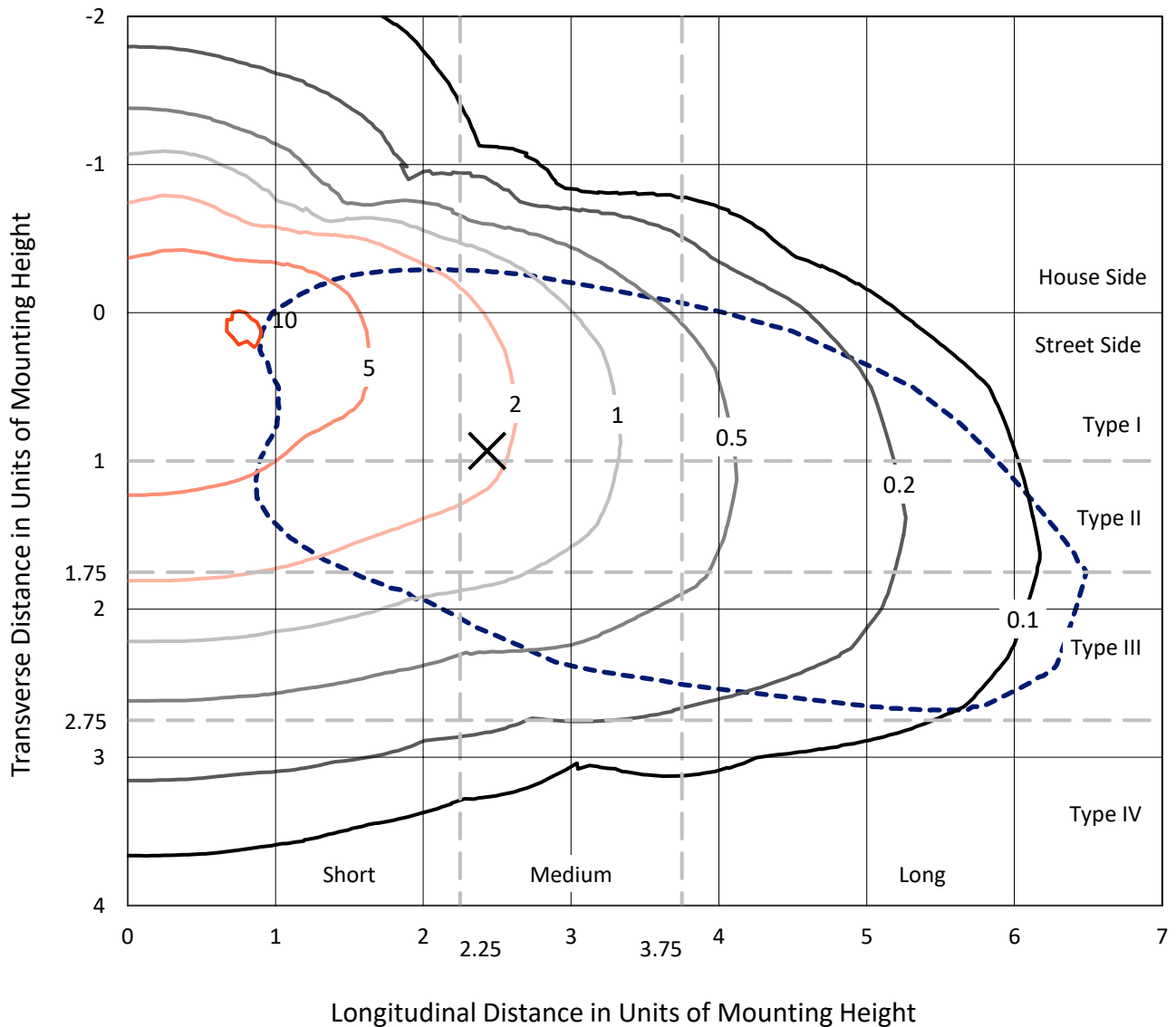
Input Watts (W): 346
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

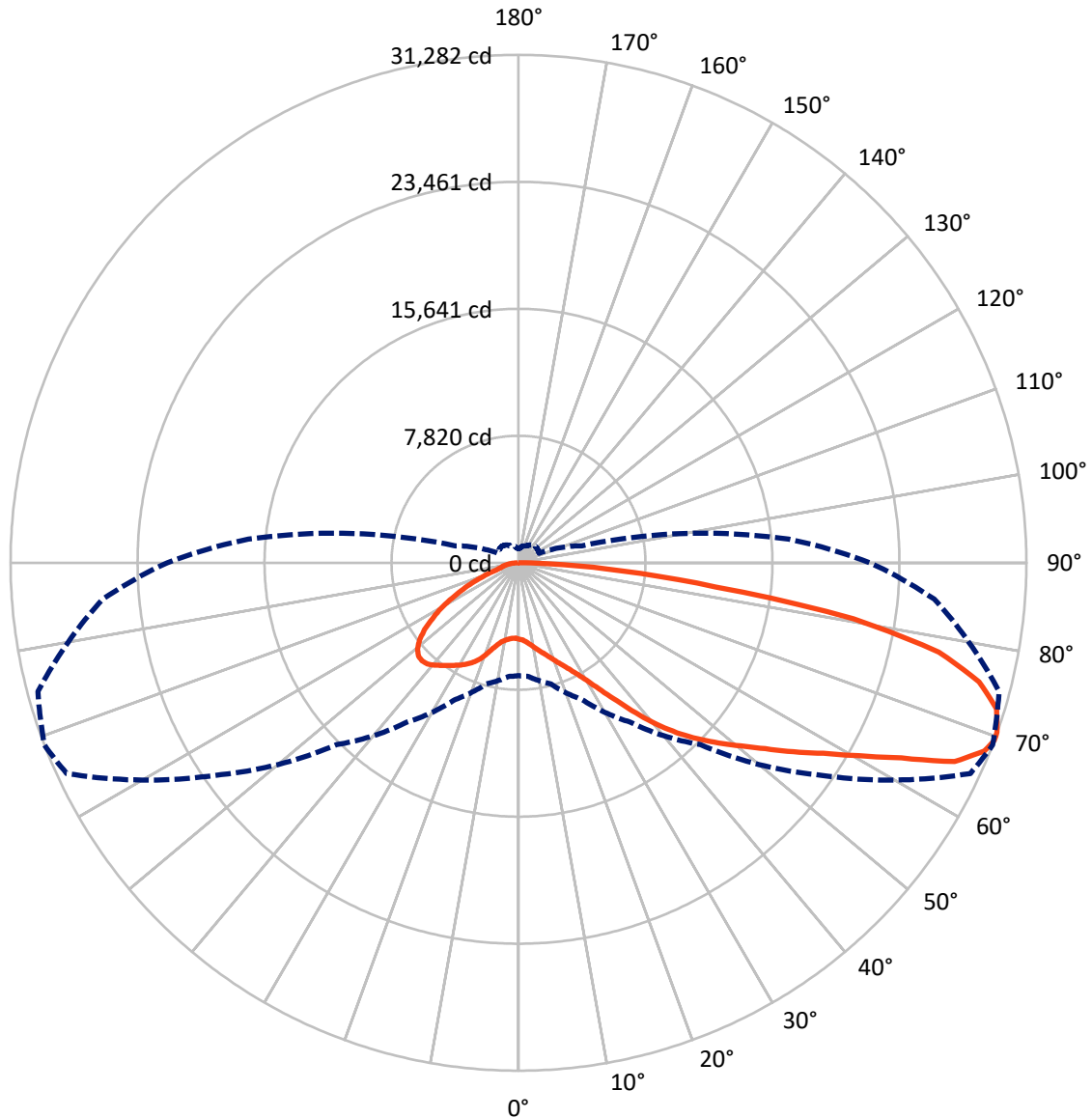
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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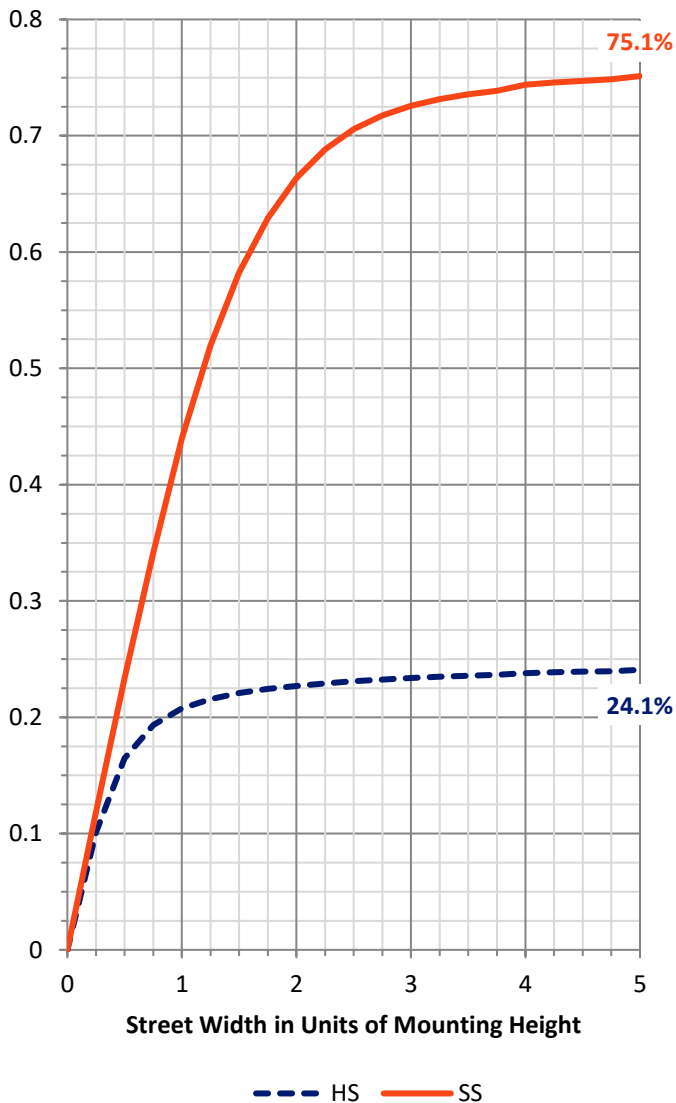
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11733.8	0.0	11733.8
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	35993.2	0.0	35993.2
	% Fixture	75.4	0.0	75.4
Total	Lumens	47727.0	0.0	47727.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.8	1.0
10°-20°	1511.6	3.2
20°-30°	2831.1	5.9
30°-40°	4810.4	10.1
40°-50°	7381.9	15.5
50°-60°	9644.8	20.2
60°-70°	10982.4	23.0
70°-80°	8291.5	17.4
80°-90°	1809.5	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°	47727.0	100.0
0°-180°	47727.0	100.0

Coefficient of Utilization

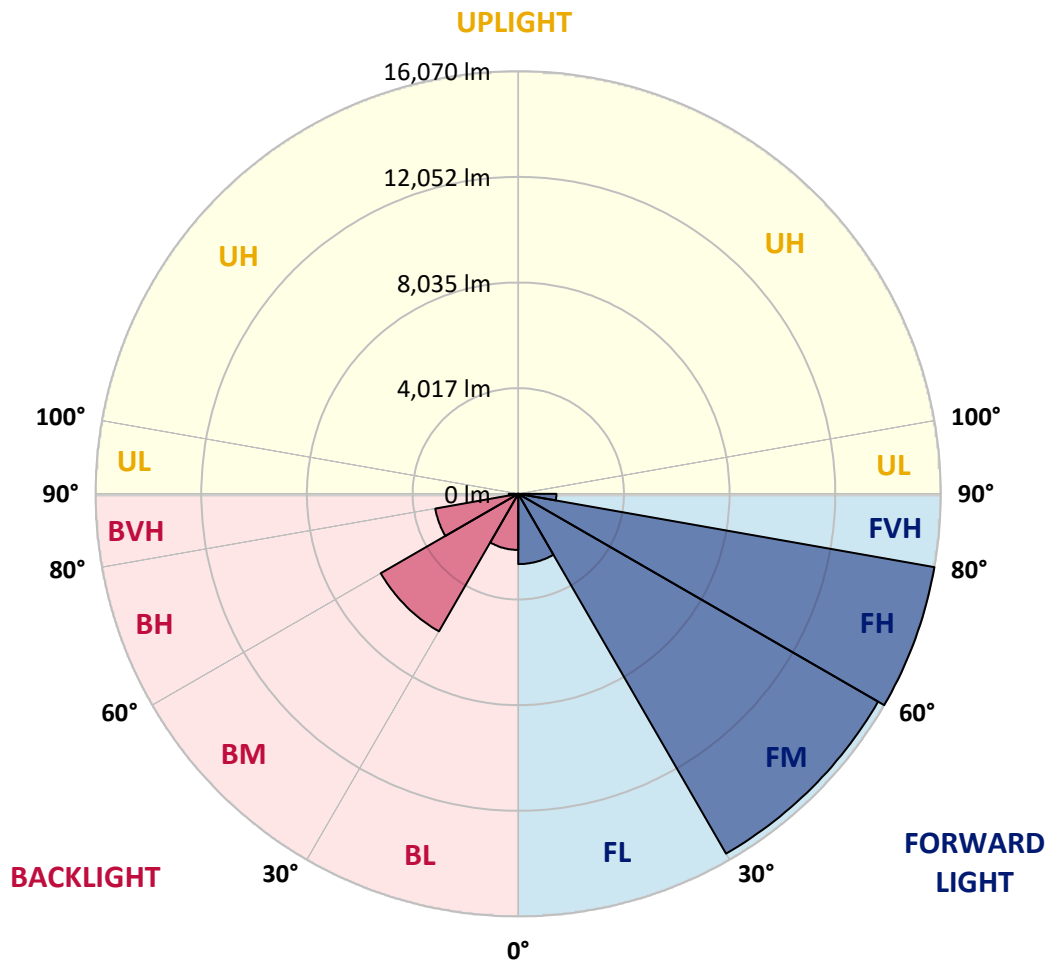


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2673.1	5.6			
FM (30°-60°)	15799.5	33.1			
FH (60°-80°)	16069.9	33.7			G5
FVH (80°-90°)	1450.7	3.0			G5
BL (0°-30°)	2133.5	4.5	B3/2500		
BM (30°-60°)	6037.6	12.7	B4/8500		
BH (60°-80°)	3203.9	6.7	B4/5000		G4/5000
BVH (80°-90°)	358.8	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	4708.7	4708.7	4708.7	4708.7	4708.7	4708.7	4708.7	4708.7	4708.7	4708.7	4708.7
2.5°	4887.8	4902.4	4900.6	4893.3	4889.6	4869.5	4843.9	4811.0	4756.2	4730.6	4697.7
5°	5096.1	5107.0	5108.9	5096.1	5081.5	5050.4	4997.4	4946.2	4885.9	4849.4	4785.4
7.5°	5273.3	5282.4	5298.9	5287.9	5280.6	5255.0	5203.9	5143.6	5065.0	5013.9	4924.3
10°	5415.8	5423.1	5435.9	5454.2	5488.9	5467.0	5406.7	5364.7	5293.4	5214.8	5103.4
12.5°	5518.2	5512.7	5549.2	5582.1	5653.4	5677.1	5635.1	5604.0	5534.6	5454.2	5322.6
15°	5565.7	5563.8	5627.8	5710.0	5816.0	5854.4	5854.4	5819.6	5781.3	5719.2	5580.3
17.5°	5668.0	5675.3	5717.3	5823.3	5936.6	6026.1	6112.0	6115.7	6086.4	6044.4	5900.0
20°	5825.1	5837.9	5859.8	5943.9	6070.0	6227.1	6387.9	6446.4	6431.8	6415.3	6302.0
22.5°	6022.5	6027.9	6022.5	6095.6	6263.7	6475.6	6707.7	6804.5	6813.6	6815.5	6758.8
25°	6338.6	6314.8	6254.5	6320.3	6515.8	6760.7	7043.9	7204.7	7246.7	7285.1	7420.3
27.5°	6916.0	6861.2	6747.9	6725.9	6837.4	7106.0	7456.8	7725.4	7785.7	7891.7	8251.7
30°	7847.8	7774.8	7668.8	7345.4	7301.5	7531.7	7977.6	8361.3	8481.9	8803.5	9218.2
32.5°	8792.5	8745.0	8626.2	8315.6	7986.7	8072.6	8511.1	9110.4	9369.9	10020.4	10404.1
35°	9603.8	9580.0	9512.4	9360.8	8978.9	8737.7	9119.6	9952.8	10437.0	11452.9	11798.3
37.5°	10385.8	10374.9	10378.5	10172.0	10011.3	9664.1	9817.6	10935.8	11730.7	12953.1	13185.1
40°	11069.2	11074.7	11131.3	11036.3	11008.9	10793.3	10639.8	11984.6	13073.7	14436.7	14491.6
42.5°	11630.2	11635.6	11898.8	11756.2	11926.2	11878.7	11657.6	12964.0	14308.8	15637.2	15629.9
45°	11999.3	12008.4	12267.9	12383.0	12742.9	12900.1	12735.6	13969.0	15461.8	16748.2	16603.8
47.5°	12273.3	12266.0	12414.0	12878.1	13492.1	13802.7	13863.0	15111.0	16580.1	17776.9	17526.5
50°	12421.3	12437.8	12721.0	13340.4	14246.7	14679.8	15010.5	16459.5	17727.5	18769.0	18416.4
52.5°	12514.5	12596.8	13011.5	13747.9	14928.3	15606.2	16020.9	17954.1	19021.2	19799.6	19359.2
55°	12580.3	12730.1	13139.4	13961.7	15352.2	16357.1	16969.3	19496.3	20548.7	20967.2	20393.4
57.5°	12110.7	12255.1	12920.2	13994.6	15686.6	16974.7	17979.7	21124.3	22142.1	22407.0	21416.7
60°	11308.6	11394.4	12251.4	13736.9	15613.5	17535.7	19306.2	23055.7	24120.9	24141.0	22494.7
62.5°	10482.7	10517.4	11383.5	13064.5	15284.6	17720.2	20632.8	25630.2	26467.1	26211.3	23640.4
65°	9386.4	9424.7	10318.2	11959.1	14489.7	17515.6	21718.2	28343.6	29514.8	28831.5	24776.9
67.5°	7953.8	8037.9	8867.4	10387.7	13075.5	16724.4	22496.5	30212.8	30930.9	30342.6	25562.6
69°	6950.7	7029.3	7725.4	9300.5	11973.7	15832.7	22823.6	30706.2	31281.7	30640.4	25694.2
70°	6228.9	6289.2	6941.6	8487.4	11111.2	15070.8	22894.9	30839.6	31263.5	30651.4	25622.9
72.5°	4440.1	4491.3	4845.7	5938.4	8421.6	12624.2	22545.9	30477.8	30788.4	29905.9	24689.2
75°	3283.5	3323.7	3535.6	3923.0	4902.4	8933.2	20371.5	28974.0	29304.7	28276.0	22743.2
77.5°	2382.7	2415.6	2620.2	2998.4	3449.8	4206.2	14122.5	26149.1	26474.4	25648.5	19578.5
80°	1626.2	1660.9	1845.5	2165.2	2521.5	2799.3	6934.2	19138.1	20930.6	20528.6	13952.5
82.5°	305.1	374.6	793.0	1123.7	1417.9	1516.6	2622.0	10522.9	12227.7	12472.5	7275.9
85°	202.8	219.3	484.2	471.4	462.3	677.9	1026.9	5044.9	6382.4	6612.7	3141.0
87.5°	100.5	106.0	144.3	199.2	254.0	305.1	338.0	1330.2	1922.2	2061.1	586.5
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°	4708.7	4708.7	4708.7	4708.7	4708.7	4708.7	4708.7	4708.7	4708.7	4708.7	4708.7
2.5°	4685.0	4675.8	4648.4	4637.4	4630.1	4626.5	4582.6	4575.3	4553.4	4538.8	4526.0
5°	4754.4	4739.8	4675.8	4652.1	4615.5	4584.5	4511.4	4480.3	4458.4	4429.1	4416.4
7.5°	4876.8	4851.2	4754.4	4710.5	4646.6	4593.6	4493.1	4445.6	4403.6	4363.4	4356.1
10°	5043.1	4995.6	4862.2	4794.6	4701.4	4639.3	4522.3	4431.0	4368.8	4323.2	4321.3
12.5°	5260.5	5189.3	5028.5	4938.9	4823.8	4728.8	4595.4	4458.4	4356.1	4283.0	4279.3
15°	5520.0	5445.1	5282.4	5167.3	5032.1	4904.2	4690.4	4487.6	4317.7	4200.7	4186.1
17.5°	5837.9	5766.7	5618.7	5525.5	5335.4	5083.3	4780.0	4476.7	4233.6	4072.8	4049.1
20°	6239.9	6260.0	6121.1	5918.3	5602.2	5231.3	4823.8	4420.0	4067.4	3842.6	3809.7
22.5°	6800.9	6868.5	6636.4	6263.7	5805.0	5309.9	4805.5	4270.2	3839.0	3566.7	3539.3
25°	7487.9	7467.8	7049.4	6517.6	5909.2	5308.0	4703.2	4056.4	3548.4	3241.5	3221.4
27.5°	8206.0	8085.4	7438.6	6694.9	5927.5	5207.5	4502.2	3734.8	3214.1	2958.2	2897.9
30°	9121.4	8785.2	7836.9	6844.7	5867.2	5015.7	4138.6	3426.0	3022.2	2744.5	2704.3
32.5°	10179.4	9620.2	8284.5	6890.4	5733.8	4721.5	3743.9	3283.5	2896.1	2580.0	2534.3
35°	11409.1	10689.1	8803.5	6906.8	5479.8	4284.8	3530.2	3201.3	2812.1	2453.9	2393.6
37.5°	12695.4	11822.0	9443.0	6888.6	5183.8	3806.1	3380.3	3082.5	2717.1	2424.7	2390.0
40°	13857.5	12912.9	10164.7	6837.4	4778.1	3495.4	3217.7	2918.0	2634.8	2413.7	2386.3
42.5°	14922.8	13863.0	10855.4	6751.5	4272.0	3274.4	3038.6	2795.6	2530.7	2260.3	2205.4
45°	15845.5	14740.1	11367.0	6546.9	3705.6	3047.8	2823.0	2625.7	2375.4	2106.8	2052.0
47.5°	16636.7	15463.6	11769.0	6196.1	3248.8	2835.8	2578.2	2422.9	2203.6	1947.8	1893.0
50°	17444.3	16052.0	12004.7	5616.8	2866.9	2592.8	2335.2	2187.2	1999.0	1812.6	1779.7
52.5°	18310.4	17007.6	12348.3	4663.0	2514.2	2337.0	2077.5	1916.7	1777.9	1699.3	1668.2
55°	19185.7	17855.4	12474.3	3526.5	2205.4	2136.0	1834.5	1626.2	1527.5	1478.2	1470.9
57.5°	20055.4	18579.0	12043.1	2510.6	2000.8	1903.9	1575.1	1377.7	1260.8	1295.5	1348.5
60°	20945.2	19107.1	10941.3	1964.2	1840.0	1626.2	1355.8	1209.6	1158.4	1120.1	1121.9
62.5°	21767.5	19353.8	9066.6	1668.2	1684.7	1454.5	1279.0	1136.5	1085.4	1019.6	999.5
65°	22313.8	18918.9	7076.8	1544.0	1544.0	1410.6	1275.4	1138.3	1068.9	953.8	933.7
67.5°	22156.7	17786.0	5236.8	1432.5	1454.5	1428.9	1306.5	1134.7	1048.8	939.2	931.9
69°	21650.6	16700.7	4021.7	1399.6	1439.8	1445.3	1343.0	1153.0	1070.7	904.5	864.3
70°	21142.6	15863.8	3329.2	1372.2	1436.2	1456.3	1372.2	1174.9	1054.3	849.7	824.1
72.5°	19415.9	13408.0	1677.4	1266.3	1430.7	1469.1	1436.2	1257.1	1045.2	818.6	796.7
75°	17069.7	10312.7	1076.2	1176.7	1385.0	1483.7	1487.3	1333.9	1048.8	800.3	772.9
77.5°	13676.6	5978.6	893.5	1076.2	1299.1	1454.5	1503.8	1392.3	1092.7	831.4	800.3
80°	7272.3	2364.4	718.1	919.1	1189.5	1366.7	1458.1	1372.2	1081.7	694.3	674.2
82.5°	3219.5	734.5	526.2	721.7	935.5	1195.0	1238.8	1207.8	946.5	420.3	480.6
85°	904.5	303.3	350.8	518.9	646.8	846.0	970.2	973.9	734.5	182.7	42.0
87.5°	93.2	69.4	102.3	199.2	372.7	586.5	709.0	679.7	491.5	155.3	3.7
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)