

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: P285799

Luminaire Tested: **PRV-XL-C175-D-UNV-T3-BZ-7050**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285799
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-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49492 lumens
Efficiency: N/A
Efficacy: 143.0 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

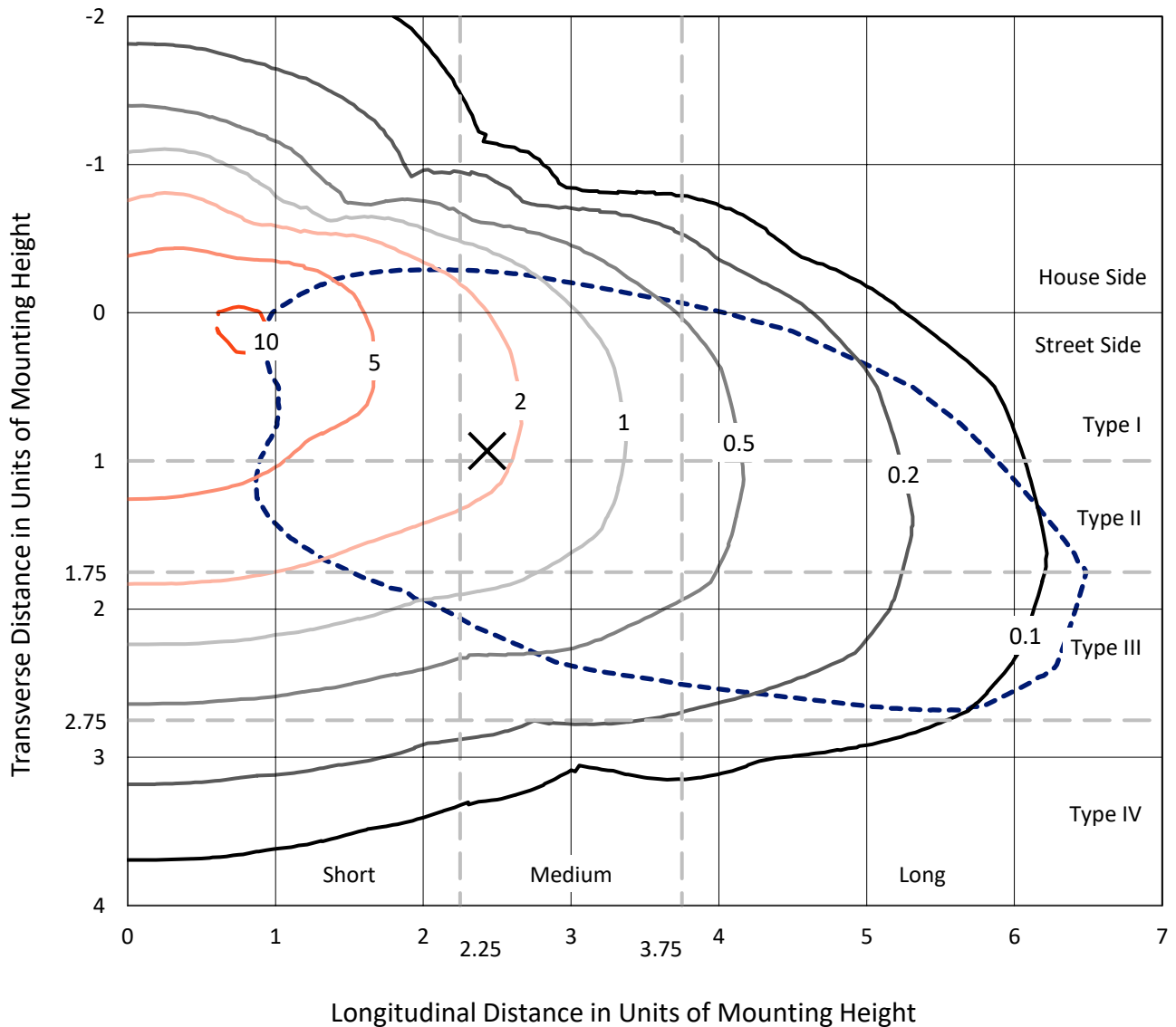
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

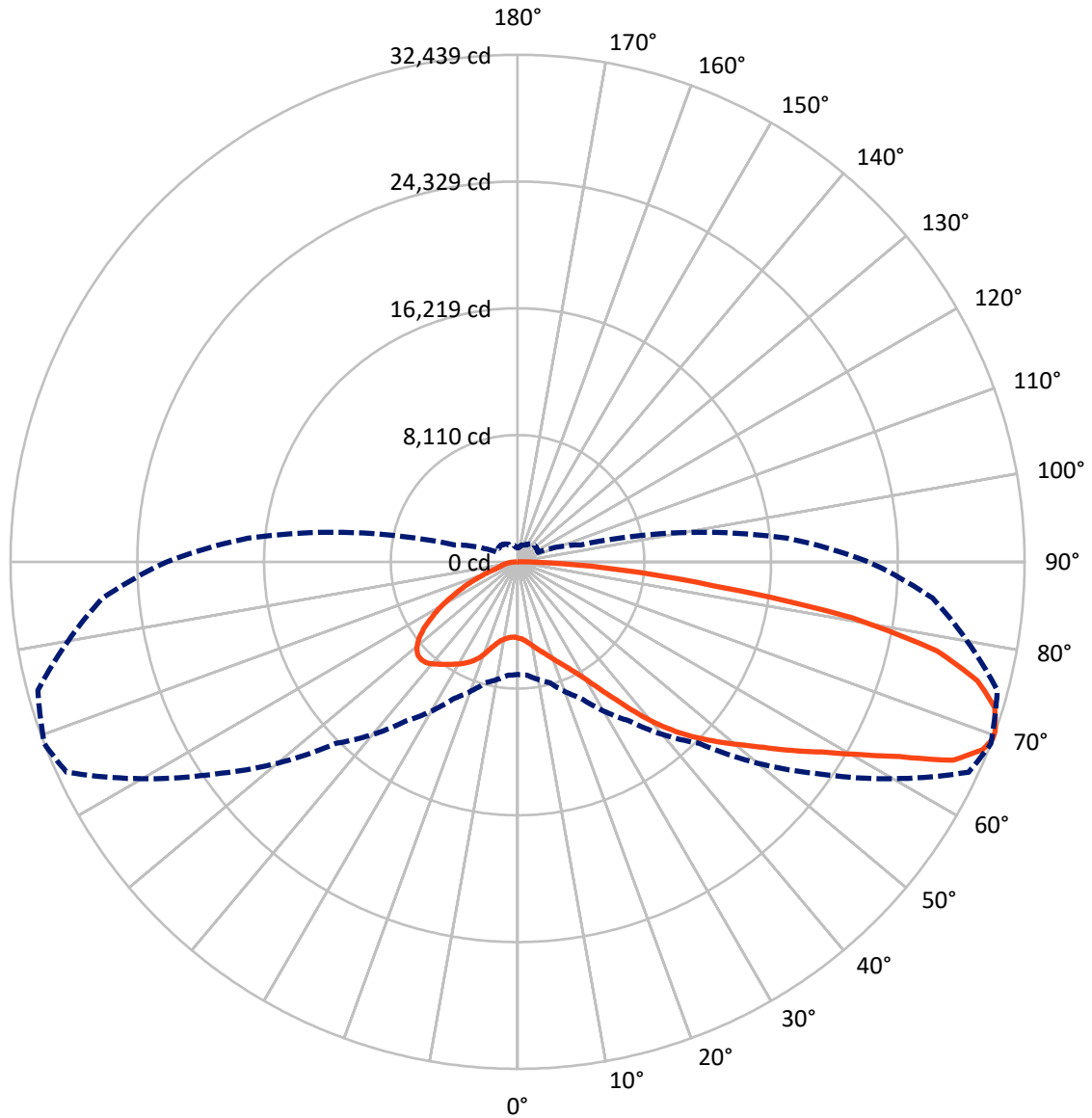
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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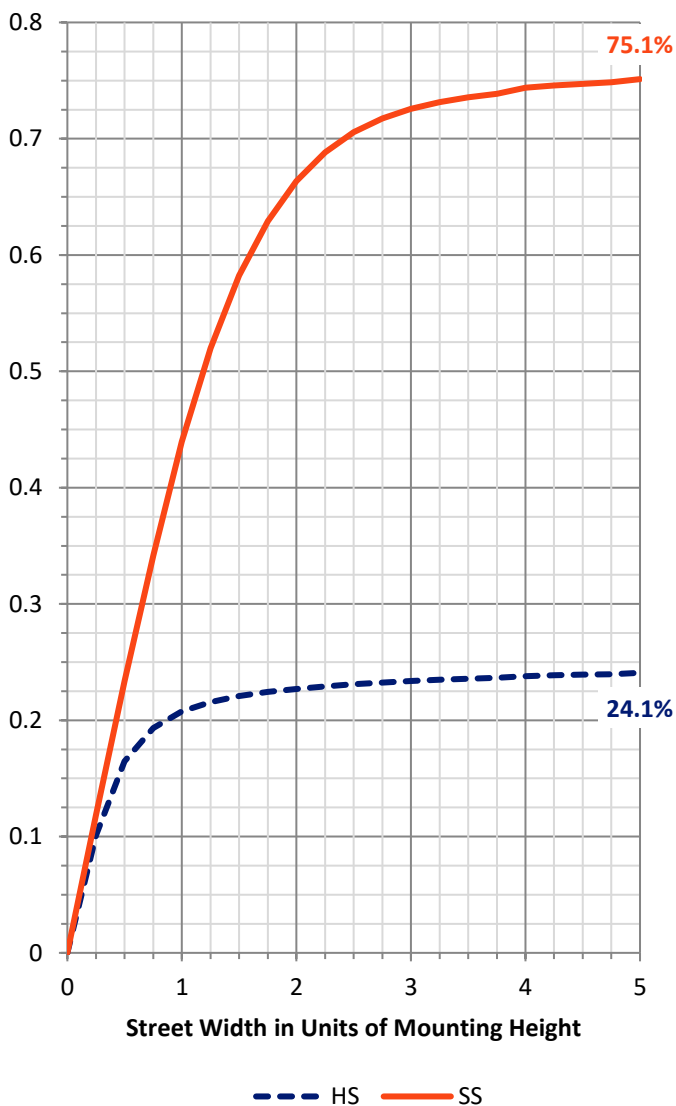
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12167.8	0.0	12167.8
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	37324.2	0.0	37324.2
	% Fixture	75.4	0.0	75.4
Total	Lumens	49492.0	0.0	49492.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.0	1.0
10°-20°	1567.6	3.2
20°-30°	2935.8	5.9
30°-40°	4988.3	10.1
40°-50°	7654.9	15.5
50°-60°	10001.4	20.2
60°-70°	11388.5	23.0
70°-80°	8598.1	17.4
80°-90°	1876.4	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°	49492.0	100.0
0°-180°	49492.0	100.0

Coefficient of Utilization

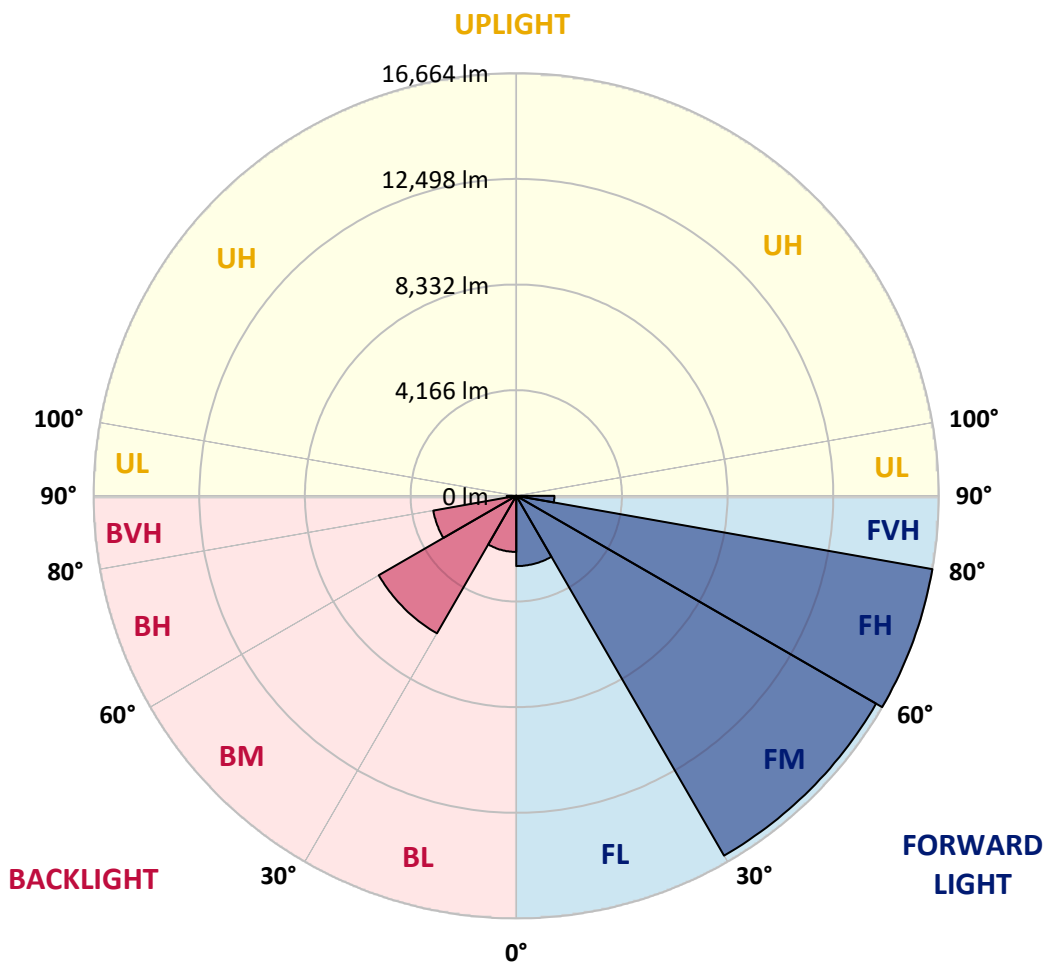


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2772.0	5.6			
FM (30°-60°)	16383.8	33.1			
FH (60°-80°)	16664.1	33.7			G5
FVH (80°-90°)	1504.4	3.0			G5
BL (0°-30°)	2212.4	4.5	B3/2500		
BM (30°-60°)	6260.9	12.7	B4/8500		
BH (60°-80°)	3322.4	6.7	B4/5000		G4/5000
BVH (80°-90°)	372.0	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4882.8	4882.8	4882.8	4882.8	4882.8	4882.8	4882.8	4882.8	4882.8	4882.8	4882.8
2.5°	5068.5	5083.7	5081.8	5074.2	5070.4	5049.6	5023.1	4988.9	4932.1	4905.6	4871.5
5°	5284.5	5295.9	5297.8	5284.5	5269.4	5237.2	5182.2	5129.2	5066.6	5028.7	4962.4
7.5°	5468.3	5477.8	5494.9	5483.5	5475.9	5449.4	5396.3	5333.8	5252.3	5199.3	5106.4
10°	5616.1	5623.7	5637.0	5655.9	5691.9	5669.2	5606.6	5563.1	5489.2	5407.7	5292.1
12.5°	5722.2	5716.5	5754.4	5788.5	5862.4	5887.1	5843.5	5811.3	5739.3	5655.9	5519.5
15°	5771.5	5769.6	5835.9	5921.2	6031.1	6070.9	6070.9	6034.9	5995.1	5930.7	5786.6
17.5°	5877.6	5885.2	5928.8	6038.7	6156.1	6249.0	6338.0	6341.8	6311.5	6267.9	6118.2
20°	6040.5	6053.8	6076.6	6163.7	6294.4	6457.4	6624.1	6684.8	6669.6	6652.6	6535.1
22.5°	6245.2	6250.9	6245.2	6321.0	6495.3	6715.1	6955.7	7056.1	7065.6	7067.5	7008.8
25°	6573.0	6548.3	6485.8	6554.0	6756.8	7010.7	7304.4	7471.1	7514.7	7554.5	7694.7
27.5°	7171.7	7114.9	6997.4	6974.7	7090.3	7368.8	7732.6	8011.1	8073.6	8183.5	8556.8
30°	8138.1	8062.3	7952.4	7617.0	7571.5	7810.3	8272.6	8670.5	8795.6	9129.0	9559.2
32.5°	9117.7	9068.4	8945.2	8623.1	8282.1	8371.1	8825.9	9447.4	9716.4	10391.0	10788.9
35°	9958.9	9934.3	9864.2	9706.9	9310.9	9060.8	9456.8	10320.9	10823.0	11876.5	12234.6
37.5°	10769.9	10758.5	10762.3	10548.2	10381.5	10021.5	10180.6	11340.2	12164.5	13432.1	13672.7
40°	11478.6	11484.2	11543.0	11444.5	11416.0	11192.4	11033.3	12427.8	13557.1	14970.6	15027.5
42.5°	12060.3	12065.9	12338.8	12191.0	12367.2	12317.9	12088.7	13443.4	14838.0	16215.5	16207.9
45°	12443.0	12452.5	12721.5	12840.9	13214.2	13377.1	13206.6	14485.6	16033.6	17367.5	17217.8
47.5°	12727.2	12719.6	12873.1	13354.4	13991.0	14313.1	14375.7	15669.8	17193.2	18434.3	18174.7
50°	12880.7	12897.7	13191.4	13833.8	14773.6	15222.6	15565.6	17068.2	18383.1	19463.1	19097.5
52.5°	12977.3	13062.6	13492.7	14256.3	15480.3	16183.3	16613.4	18618.1	19724.6	20531.8	20075.2
55°	13045.5	13200.9	13625.3	14478.0	15919.9	16962.0	17596.8	20217.3	21308.7	21742.6	21147.6
57.5°	12558.6	12708.3	13398.0	14512.1	16266.7	17602.5	18644.6	21905.5	22960.9	23235.7	22208.7
60°	11726.8	11815.8	12704.5	14244.9	16190.9	18184.2	20020.2	23908.3	25013.0	25033.8	23326.6
62.5°	10870.3	10906.3	11804.5	13547.7	15849.8	18375.5	21395.8	26578.0	27445.8	27180.6	24514.6
65°	9733.5	9773.3	10699.8	12401.3	15025.6	18163.3	22521.3	29391.8	30606.3	29897.7	25693.2
67.5°	8248.0	8335.1	9195.4	10771.8	13559.0	17342.9	23328.5	31330.1	32074.8	31464.7	26507.9
69°	7207.7	7289.2	8011.1	9644.4	12416.5	16418.2	23667.7	31841.7	32438.6	31773.5	26644.4
70°	6459.3	6521.8	7198.3	8801.2	11522.1	15628.1	23741.6	31980.0	32419.6	31784.9	26570.5
72.5°	4604.3	4657.4	5024.9	6158.0	8733.0	13091.0	23379.7	31604.9	31927.0	31011.8	25602.2
75°	3404.9	3446.6	3666.4	4068.1	5083.7	9263.6	21124.9	30045.5	30388.4	29321.7	23584.3
77.5°	2470.8	2504.9	2717.1	3109.3	3577.3	4361.8	14644.7	27116.2	27453.4	26597.0	20302.5
80°	1686.4	1722.4	1913.7	2245.3	2614.8	2902.8	7190.7	19845.9	21704.7	21287.8	14468.5
82.5°	316.4	388.4	822.3	1165.3	1470.3	1572.7	2719.0	10912.0	12679.8	12933.7	7545.0
85°	210.3	227.4	502.1	488.9	479.4	703.0	1064.9	5231.5	6618.5	6857.2	3257.1
87.5°	104.2	109.9	149.7	206.5	263.4	316.4	350.5	1379.4	1993.3	2137.3	608.2
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°	4882.8	4882.8	4882.8	4882.8	4882.8	4882.8	4882.8	4882.8	4882.8	4882.8	4882.8
2.5°	4858.2	4848.7	4820.3	4808.9	4801.4	4797.6	4752.1	4744.5	4721.8	4706.6	4693.4
5°	4930.2	4915.1	4848.7	4824.1	4786.2	4754.0	4678.2	4646.0	4623.3	4592.9	4579.7
7.5°	5057.2	5030.6	4930.2	4884.7	4818.4	4763.5	4659.3	4610.0	4566.4	4524.7	4517.1
10°	5229.6	5180.3	5042.0	4971.9	4875.3	4810.8	4689.6	4594.8	4530.4	4483.0	4481.1
12.5°	5455.1	5381.2	5214.4	5121.6	5002.2	4903.7	4765.4	4623.3	4517.1	4441.4	4437.6
15°	5724.1	5646.4	5477.8	5358.4	5218.2	5085.6	4863.9	4653.6	4477.4	4356.1	4340.9
17.5°	6053.8	5979.9	5826.4	5729.8	5532.7	5271.3	4956.7	4642.2	4390.2	4223.5	4198.8
20°	6470.7	6491.5	6347.5	6137.2	5809.4	5424.7	5002.2	4583.5	4217.8	3984.7	3950.6
22.5°	7052.4	7122.5	6881.8	6495.3	6019.7	5506.2	4983.3	4428.1	3980.9	3698.6	3670.2
25°	7764.8	7744.0	7310.0	6758.7	6127.7	5504.3	4877.2	4206.4	3679.7	3361.3	3340.5
27.5°	8509.4	8384.4	7713.6	6942.5	6146.7	5400.1	4668.7	3872.9	3332.9	3067.6	3005.1
30°	9458.7	9110.1	8126.7	7097.8	6084.1	5201.2	4291.7	3552.7	3134.0	2846.0	2804.3
32.5°	10555.8	9976.0	8590.9	7145.2	5945.8	4896.1	3882.4	3404.9	3003.2	2675.4	2628.1
35°	11831.0	11084.4	9129.0	7162.3	5682.4	4443.3	3660.7	3319.6	2916.1	2544.7	2482.2
37.5°	13164.9	12259.2	9792.2	7143.3	5375.5	3946.8	3505.3	3196.5	2817.5	2514.4	2478.4
40°	14370.0	13390.4	10540.6	7090.3	4954.8	3624.7	3336.7	3026.0	2732.3	2503.0	2474.6
42.5°	15474.6	14375.7	11256.9	7001.2	4430.0	3395.4	3151.0	2899.0	2624.3	2343.8	2287.0
45°	16431.5	15285.2	11787.4	6789.0	3842.6	3160.5	2927.4	2722.8	2463.2	2184.7	2127.8
47.5°	17251.9	16035.5	12204.3	6425.2	3368.9	2940.7	2673.5	2512.5	2285.1	2019.8	1963.0
50°	18089.4	16645.6	12448.7	5824.5	2972.9	2688.7	2421.5	2268.0	2072.9	1879.6	1845.5
52.5°	18987.6	17636.6	12804.9	4835.5	2607.2	2423.4	2154.4	1987.6	1843.6	1762.1	1729.9
55°	19895.2	18515.8	12935.6	3656.9	2287.0	2215.0	1902.4	1686.4	1584.0	1532.9	1525.3
57.5°	20797.1	19266.1	12488.5	2603.4	2074.8	1974.4	1633.3	1428.7	1307.4	1343.4	1398.3
60°	21719.8	19813.7	11345.9	2036.9	1908.0	1686.4	1405.9	1254.3	1201.3	1161.5	1163.4
62.5°	22572.5	20069.5	9401.9	1729.9	1747.0	1508.2	1326.3	1178.6	1125.5	1057.3	1036.4
65°	23139.0	19618.5	7338.5	1601.1	1601.1	1462.8	1322.6	1180.4	1108.4	989.1	968.2
67.5°	22976.1	18443.8	5430.4	1485.5	1508.2	1481.7	1354.8	1176.7	1087.6	973.9	966.3
69°	22451.2	17318.3	4170.4	1451.4	1493.1	1498.8	1392.7	1195.6	1110.3	937.9	896.2
70°	21924.5	16450.5	3452.3	1423.0	1489.3	1510.1	1423.0	1218.3	1093.3	881.1	854.5
72.5°	20133.9	13903.9	1739.4	1313.1	1483.6	1523.4	1489.3	1303.6	1083.8	848.9	826.1
75°	17701.0	10694.1	1116.0	1220.2	1436.2	1538.6	1542.3	1383.2	1087.6	829.9	801.5
77.5°	14182.4	6199.7	926.5	1116.0	1347.2	1508.2	1559.4	1443.8	1133.1	862.1	829.9
80°	7541.2	2451.8	744.6	953.1	1233.5	1417.3	1512.0	1423.0	1121.7	720.0	699.2
82.5°	3338.6	761.7	545.7	748.4	970.1	1239.2	1284.7	1252.4	981.5	435.8	498.3
85°	937.9	314.5	363.8	538.1	670.8	877.3	1006.1	1009.9	761.7	189.5	43.6
87.5°	96.6	72.0	106.1	206.5	386.5	608.2	735.2	704.9	509.7	161.1	3.8
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)