

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: P285794

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

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285794
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
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48610 lumens
Efficiency: N/A
Efficacy: 140.5 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

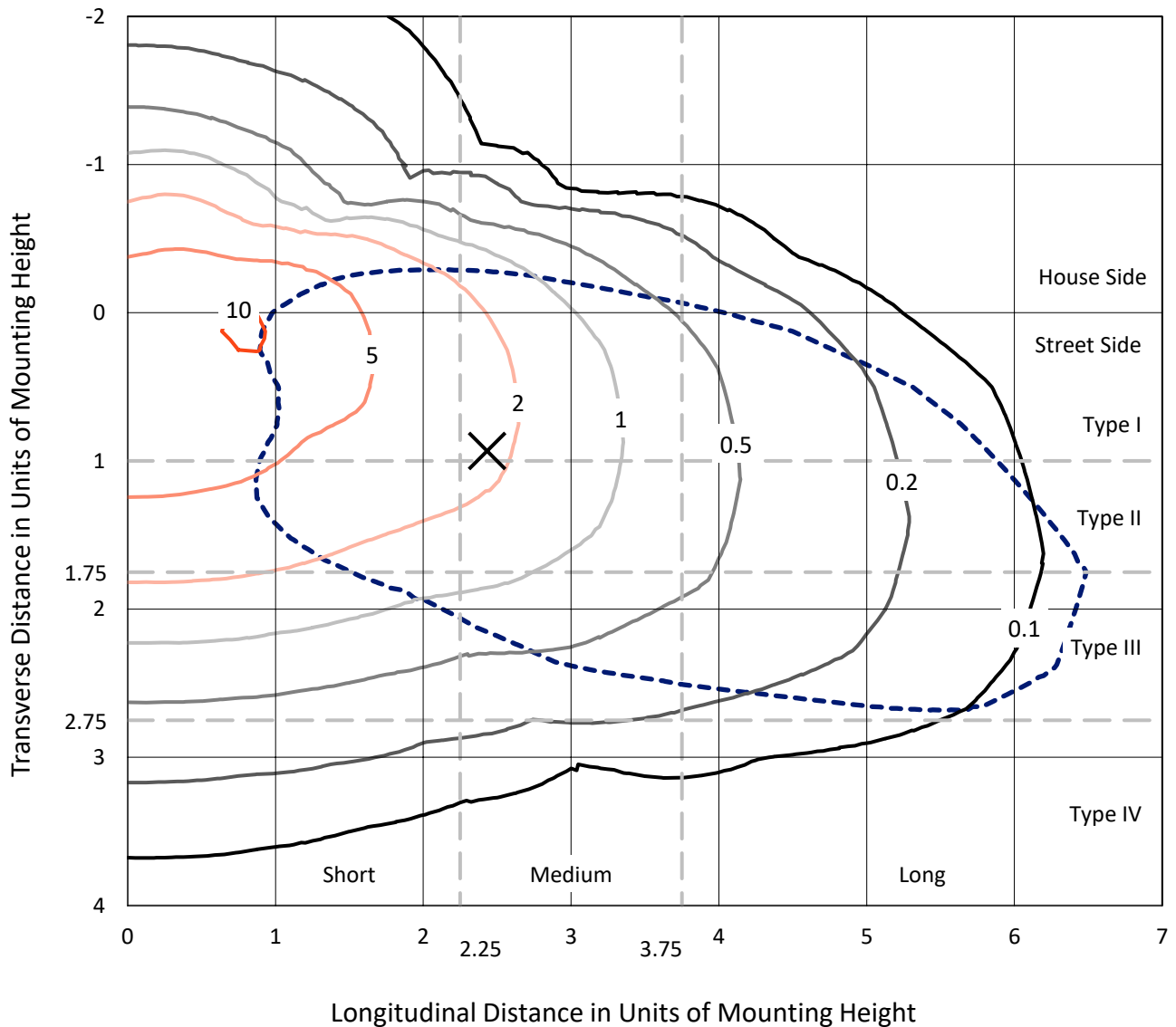
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

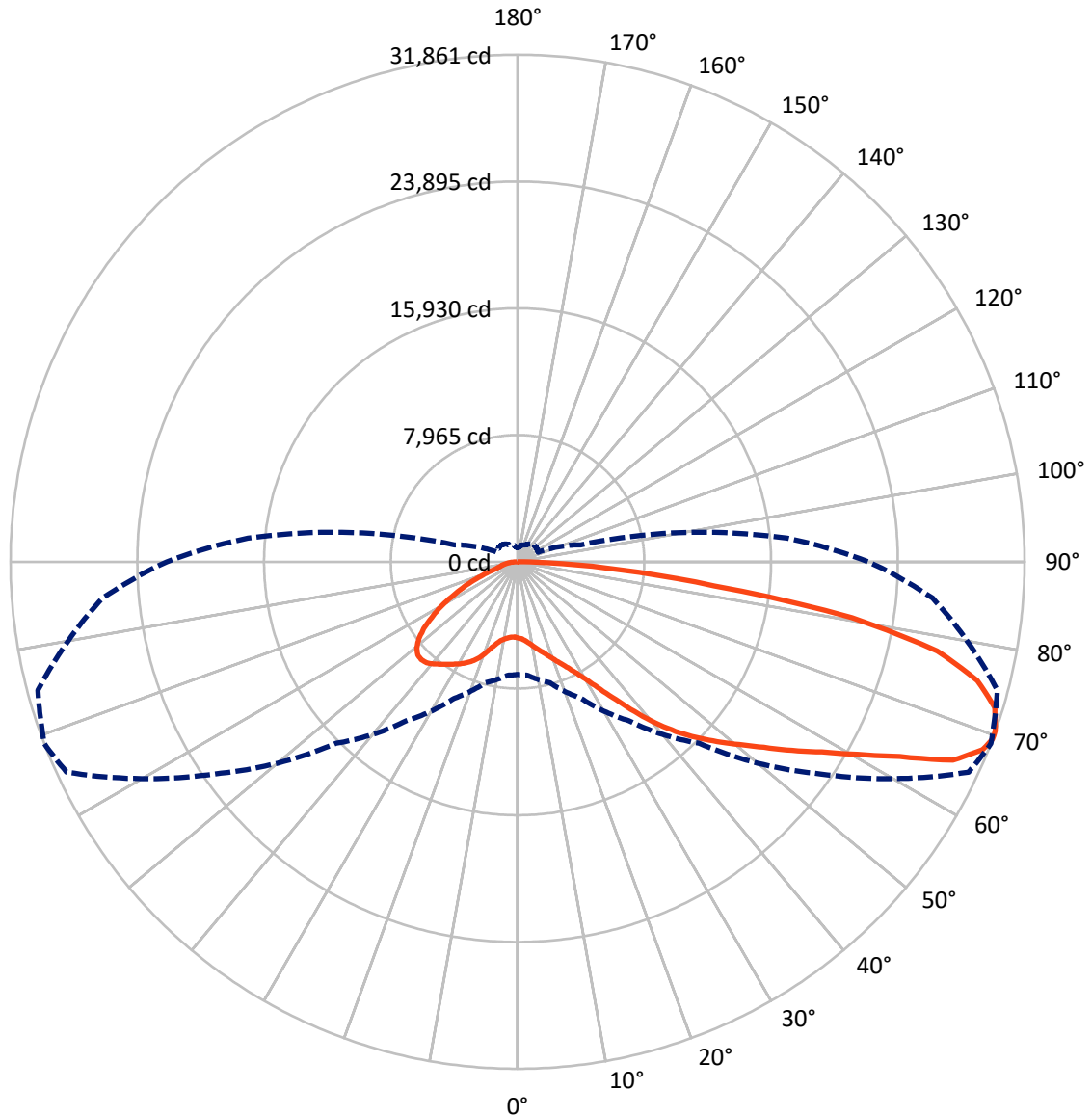
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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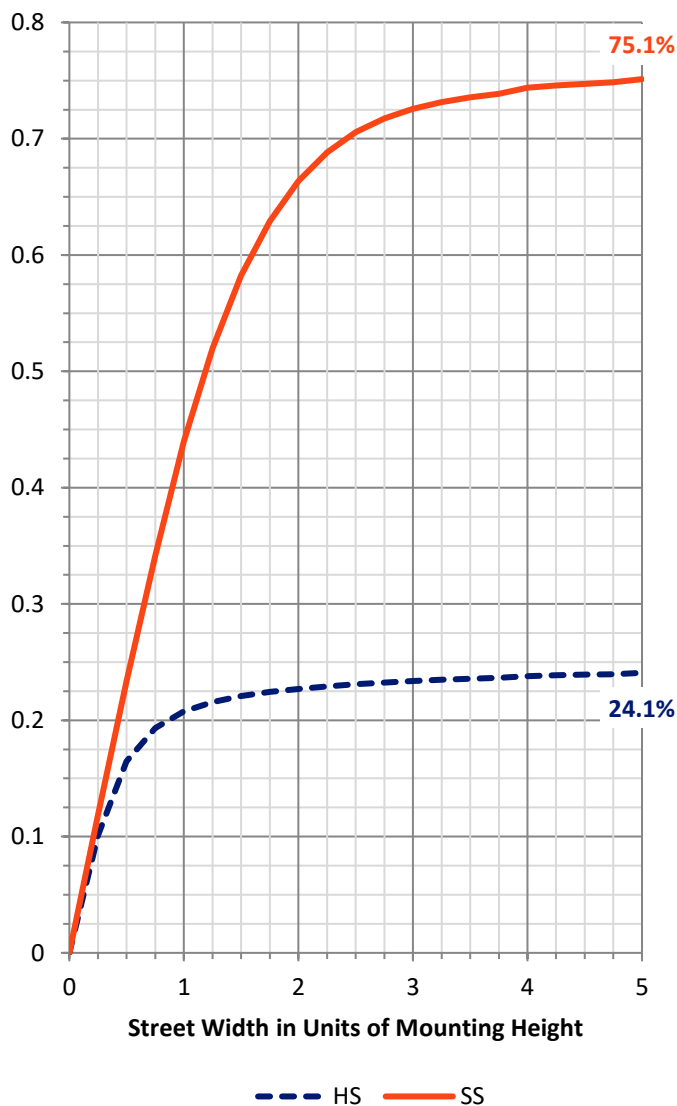
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11950.9	0.0	11950.9
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	36659.1	0.0	36659.1
	% Fixture	75.4	0.0	75.4
Total	Lumens	48610.0	0.0	48610.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.4	1.0
10°-20°	1539.6	3.2
20°-30°	2883.5	5.9
30°-40°	4899.4	10.1
40°-50°	7518.5	15.5
50°-60°	9823.2	20.2
60°-70°	11185.5	23.0
70°-80°	8444.9	17.4
80°-90°	1843.0	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°	48610.0	100.0
0°-180°	48610.0	100.0

Coefficient of Utilization

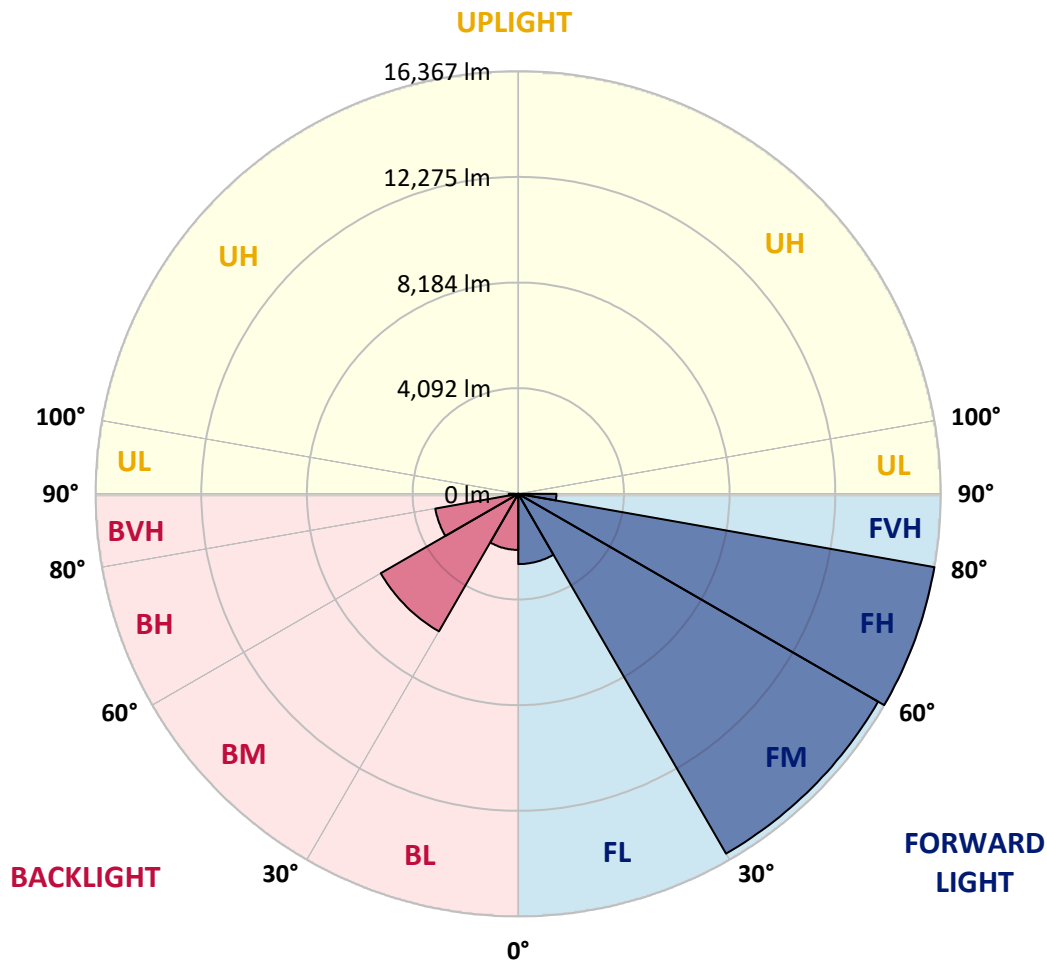


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2722.6	5.6			
FM (30°-60°)	16091.8	33.1			
FH (60°-80°)	16367.2	33.7			G5
FVH (80°-90°)	1477.6	3.0			G5
BL (0°-30°)	2173.0	4.5	B3/2500		
BM (30°-60°)	6149.3	12.7	B4/8500		
BH (60°-80°)	3263.2	6.7	B4/5000		G4/5000
BVH (80°-90°)	365.4	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°	4795.8	4795.8	4795.8	4795.8	4795.8	4795.8	4795.8	4795.8	4795.8	4795.8	4795.8
2.5°	4978.2	4993.1	4991.2	4983.8	4980.1	4959.6	4933.5	4900.0	4844.2	4818.2	4784.7
5°	5190.4	5201.5	5203.4	5190.4	5175.5	5143.8	5089.9	5037.8	4976.3	4939.1	4874.0
7.5°	5370.9	5380.2	5396.9	5385.8	5378.3	5352.3	5300.2	5238.7	5158.7	5106.6	5015.4
10°	5516.0	5523.5	5536.5	5555.1	5590.5	5568.1	5506.7	5463.9	5391.3	5311.3	5197.8
12.5°	5620.3	5614.7	5651.9	5685.4	5758.0	5782.2	5739.4	5707.7	5637.0	5555.1	5421.1
15°	5668.6	5666.8	5731.9	5815.7	5923.6	5962.7	5962.7	5927.3	5888.2	5825.0	5683.5
17.5°	5772.9	5780.3	5823.1	5931.0	6046.4	6137.6	6225.1	6228.8	6199.0	6156.2	6009.2
20°	5932.9	5945.9	5968.3	6053.9	6182.3	6342.3	6506.1	6565.6	6550.8	6534.0	6418.6
22.5°	6133.9	6139.5	6133.9	6208.3	6379.5	6595.4	6831.8	6930.4	6939.7	6941.6	6883.9
25°	6455.8	6431.7	6370.2	6437.2	6636.4	6885.7	7174.2	7338.0	7380.8	7419.8	7557.6
27.5°	7043.9	6988.1	6872.7	6850.4	6963.9	7237.5	7594.8	7868.4	7929.8	8037.7	8404.3
30°	7993.0	7918.6	7810.7	7481.3	7436.6	7671.1	8125.2	8516.0	8638.8	8966.3	9388.8
32.5°	8955.2	8906.8	8785.8	8469.5	8134.5	8221.9	8668.6	9279.0	9543.3	10205.8	10596.6
35°	9781.5	9757.3	9688.4	9534.0	9145.0	8899.4	9288.3	10136.9	10630.1	11664.8	12016.5
37.5°	10578.0	10566.8	10570.5	10360.2	10196.5	9842.9	9999.2	11138.1	11947.7	13192.7	13429.0
40°	11274.0	11279.6	11337.3	11240.5	11212.6	10993.0	10836.7	12206.4	13315.5	14703.8	14759.7
42.5°	11845.3	11850.9	12118.9	11973.7	12146.8	12098.4	11873.2	13203.9	14573.6	15926.5	15919.1
45°	12221.3	12230.6	12494.8	12612.1	12978.7	13138.7	12971.2	14227.4	15747.9	17058.0	16911.0
47.5°	12500.4	12493.0	12643.7	13116.4	13741.7	14058.1	14119.5	15390.6	16886.8	18105.8	17850.8
50°	12651.1	12667.9	12956.4	13587.2	14510.3	14951.4	15288.2	16764.0	18055.5	19116.3	18757.1
52.5°	12746.1	12829.8	13252.3	14002.2	15204.5	15894.9	16317.3	18286.3	19373.1	20165.9	19717.4
55°	12813.1	12965.7	13382.5	14220.0	15636.2	16659.8	17283.2	19857.0	20928.9	21355.1	20770.7
57.5°	12334.8	12481.8	13159.2	14253.5	15976.8	17288.8	18312.3	21515.1	22551.7	22821.6	21812.9
60°	11517.8	11605.3	12478.1	13991.1	15902.3	17860.1	19663.4	23482.2	24567.2	24587.7	22910.9
62.5°	10676.6	10712.0	11594.1	13306.2	15567.3	18048.1	21014.5	26104.4	26956.7	26696.2	24077.7
65°	9560.0	9599.1	10509.1	12180.3	14757.8	17839.6	22120.0	28868.0	30060.9	29364.9	25235.3
67.5°	8101.0	8186.6	9031.5	10579.8	13317.4	17033.8	22912.8	30771.8	31503.2	30903.9	26035.5
69°	7079.3	7159.3	7868.4	9472.5	12195.2	16125.7	23245.9	31274.3	31860.5	31207.3	26169.5
70°	6344.2	6405.6	7070.0	8644.4	11316.8	15349.6	23318.5	31410.1	31841.9	31218.4	26096.9
72.5°	4522.3	4574.4	4935.4	6048.3	8577.4	12857.7	22963.0	31041.6	31358.0	30459.2	25146.0
75°	3344.2	3385.2	3601.1	3995.6	4993.1	9098.5	20748.4	29510.0	29846.9	28799.1	23164.0
77.5°	2426.8	2460.3	2668.7	3053.9	3513.6	4284.0	14383.7	26632.9	26964.2	26123.0	19940.7
80°	1656.3	1691.7	1879.6	2205.3	2568.2	2851.1	7062.5	19492.2	21317.9	20908.4	14210.7
82.5°	310.8	381.5	807.7	1144.5	1444.1	1544.6	2670.5	10717.6	12453.9	12703.3	7410.5
85°	206.6	223.3	493.2	480.1	470.8	690.4	1045.9	5138.2	6500.5	6735.0	3199.1
87.5°	102.4	107.9	147.0	202.9	258.7	310.8	344.3	1354.8	1957.8	2099.2	597.4
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°	4795.8	4795.8	4795.8	4795.8	4795.8	4795.8	4795.8	4795.8	4795.8	4795.8	4795.8
2.5°	4771.6	4762.3	4734.4	4723.2	4715.8	4712.1	4667.4	4660.0	4637.6	4622.7	4609.7
5°	4842.3	4827.5	4762.3	4738.1	4700.9	4669.3	4594.8	4563.2	4540.9	4511.1	4498.1
7.5°	4967.0	4941.0	4842.3	4797.7	4732.5	4678.6	4576.2	4527.8	4485.0	4444.1	4436.6
10°	5136.4	5088.0	4952.1	4883.3	4788.4	4725.1	4606.0	4512.9	4449.7	4403.1	4401.3
12.5°	5357.8	5285.3	5121.5	5030.3	4913.1	4816.3	4680.4	4540.9	4436.6	4362.2	4358.5
15°	5622.1	5545.8	5380.2	5262.9	5125.2	4995.0	4777.2	4570.6	4397.6	4278.5	4263.6
17.5°	5945.9	5873.3	5722.6	5627.7	5434.1	5177.3	4868.4	4559.5	4312.0	4148.2	4124.0
20°	6355.3	6375.8	6234.4	6027.8	5705.9	5328.1	4913.1	4501.8	4142.6	3913.7	3880.2
22.5°	6926.7	6995.5	6759.2	6379.5	5912.4	5408.1	4894.5	4349.2	3910.0	3632.7	3604.8
25°	7626.4	7605.9	7179.8	6638.2	6018.5	5406.2	4790.2	4131.4	3614.1	3301.4	3281.0
27.5°	8357.8	8235.0	7576.2	6818.7	6037.1	5303.9	4585.5	3803.9	3273.5	3013.0	2951.6
30°	9290.2	8947.7	7981.9	6971.3	5975.7	5108.5	4215.2	3489.4	3078.1	2795.2	2754.3
32.5°	10367.7	9798.2	8437.8	7017.9	5839.8	4808.9	3813.2	3344.2	2949.7	2627.7	2581.2
35°	11620.1	10886.9	8966.3	7034.6	5581.2	4364.1	3595.5	3260.5	2864.1	2499.3	2437.9
37.5°	12930.3	12040.7	9617.7	7016.0	5279.7	3876.5	3442.9	3139.5	2767.3	2469.6	2434.2
40°	14113.9	13151.8	10352.8	6963.9	4866.5	3560.1	3277.2	2972.0	2683.6	2458.4	2430.5
42.5°	15198.9	14119.5	11056.3	6876.4	4351.0	3334.9	3094.9	2847.3	2577.5	2302.1	2246.2
45°	16138.7	15012.8	11577.3	6668.0	3774.1	3104.2	2875.3	2674.3	2419.3	2145.7	2089.9
47.5°	16944.5	15749.7	11986.8	6310.7	3308.9	2888.3	2625.9	2467.7	2244.4	1983.8	1928.0
50°	17767.1	16349.0	12226.8	5720.7	2919.9	2640.8	2378.4	2227.6	2035.9	1846.1	1812.6
52.5°	18649.2	17322.3	12576.7	4749.3	2560.7	2380.2	2116.0	1952.2	1810.8	1730.7	1699.1
55°	19540.6	18185.8	12705.1	3591.7	2246.2	2175.5	1868.5	1656.3	1555.8	1505.6	1498.1
57.5°	20426.4	18922.8	12265.9	2557.0	2037.8	1939.2	1604.2	1403.2	1284.1	1319.5	1373.4
60°	21332.8	19460.6	11143.7	2000.6	1874.0	1656.3	1380.9	1232.0	1179.9	1140.8	1142.7
62.5°	22170.2	19711.8	9234.3	1699.1	1715.9	1481.4	1302.7	1157.5	1105.4	1038.4	1018.0
65°	22726.7	19268.9	7207.7	1572.6	1572.6	1436.7	1299.0	1159.4	1088.7	971.4	951.0
67.5°	22566.6	18115.1	5333.7	1459.0	1481.4	1455.3	1330.6	1155.7	1068.2	956.6	949.1
69°	22051.1	17009.6	4096.1	1425.5	1466.5	1472.1	1367.8	1174.3	1090.6	921.2	880.3
70°	21533.7	16157.3	3390.8	1397.6	1462.8	1483.2	1397.6	1196.6	1073.8	865.4	839.3
72.5°	19775.1	13656.1	1708.4	1289.7	1457.2	1496.3	1462.8	1280.4	1064.5	833.7	811.4
75°	17385.6	10503.5	1096.1	1198.5	1410.6	1511.1	1514.9	1358.5	1068.2	815.1	787.2
77.5°	13929.7	6089.2	910.0	1096.1	1323.2	1481.4	1531.6	1418.1	1112.9	846.8	815.1
80°	7406.8	2408.1	731.4	936.1	1211.5	1392.0	1485.1	1397.6	1101.7	707.2	686.7
82.5°	3279.1	748.1	536.0	735.1	952.8	1217.1	1261.8	1230.1	964.0	428.0	489.4
85°	921.2	308.9	357.3	528.5	658.8	861.6	988.2	991.9	748.1	186.1	42.8
87.5°	94.9	70.7	104.2	202.9	379.6	597.4	722.1	692.3	500.6	158.2	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)