

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: P285754

Luminaire Tested: **PRV-XL-C175-D-UNV-T2-BZ**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-5)
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-T2-BZ
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48876 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

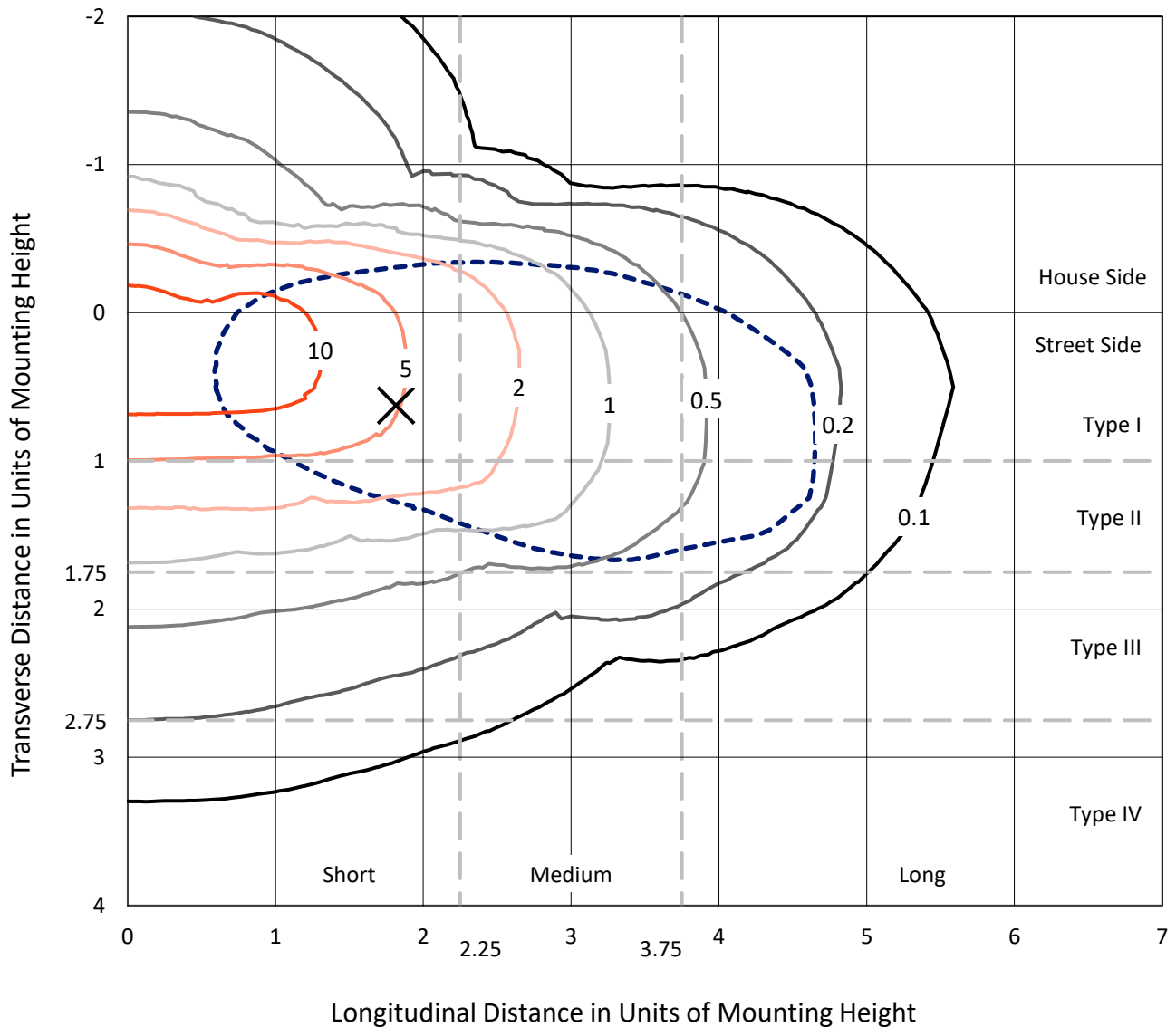
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

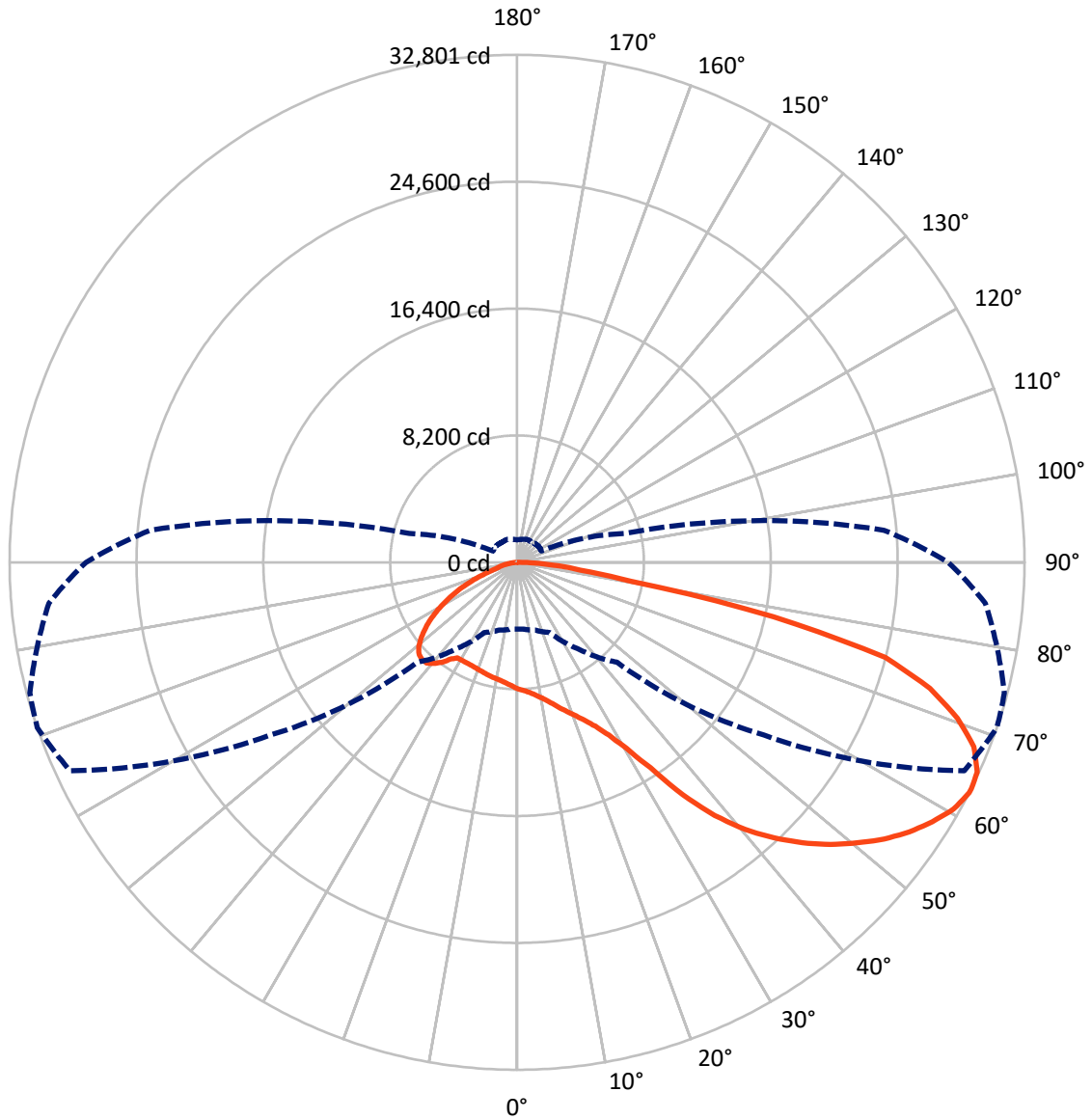
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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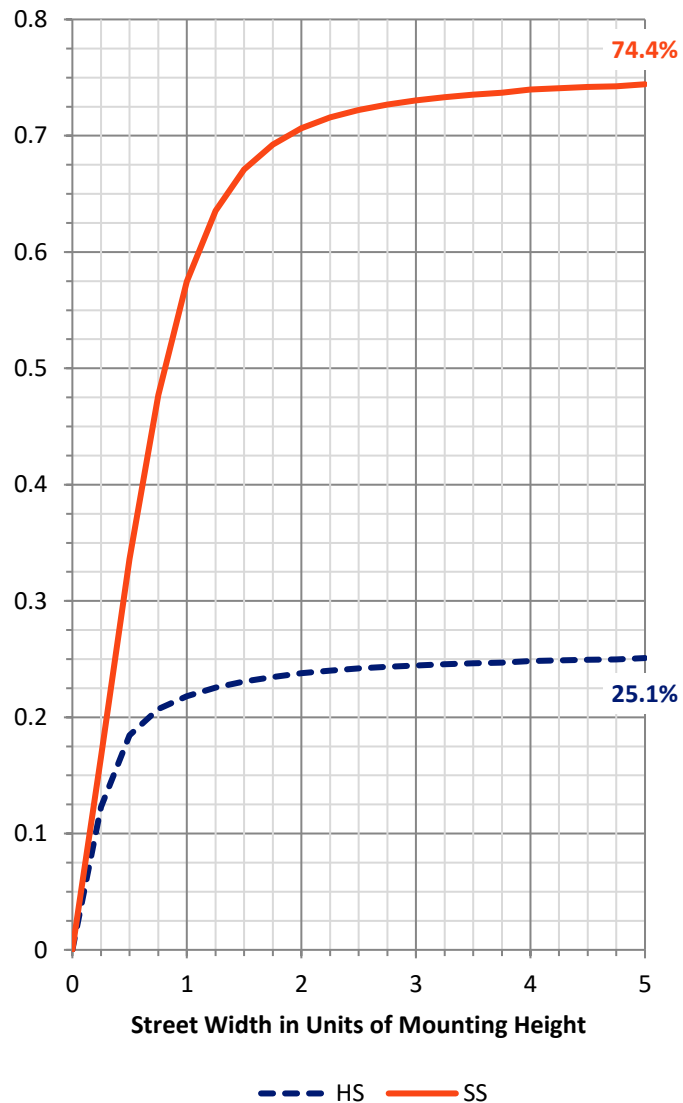
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12481.5	0.0	12481.5
	% Fixture	25.5	0.0	25.5
Street Side	Lumens	36394.5	0.0	36394.5
	% Fixture	74.5	0.0	74.5
Total	Lumens	48876.0	0.0	48876.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	789.5	1.6
10°-20°	2416.2	4.9
20°-30°	4095.9	8.4
30°-40°	6173.4	12.6
40°-50°	8480.9	17.4
50°-60°	9859.9	20.2
60°-70°	9729.0	19.9
70°-80°	6220.9	12.7
80°-90°	1110.5	2.3
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°	48876.0	100.0
0°-180°	48876.0	100.0

Coefficient of Utilization

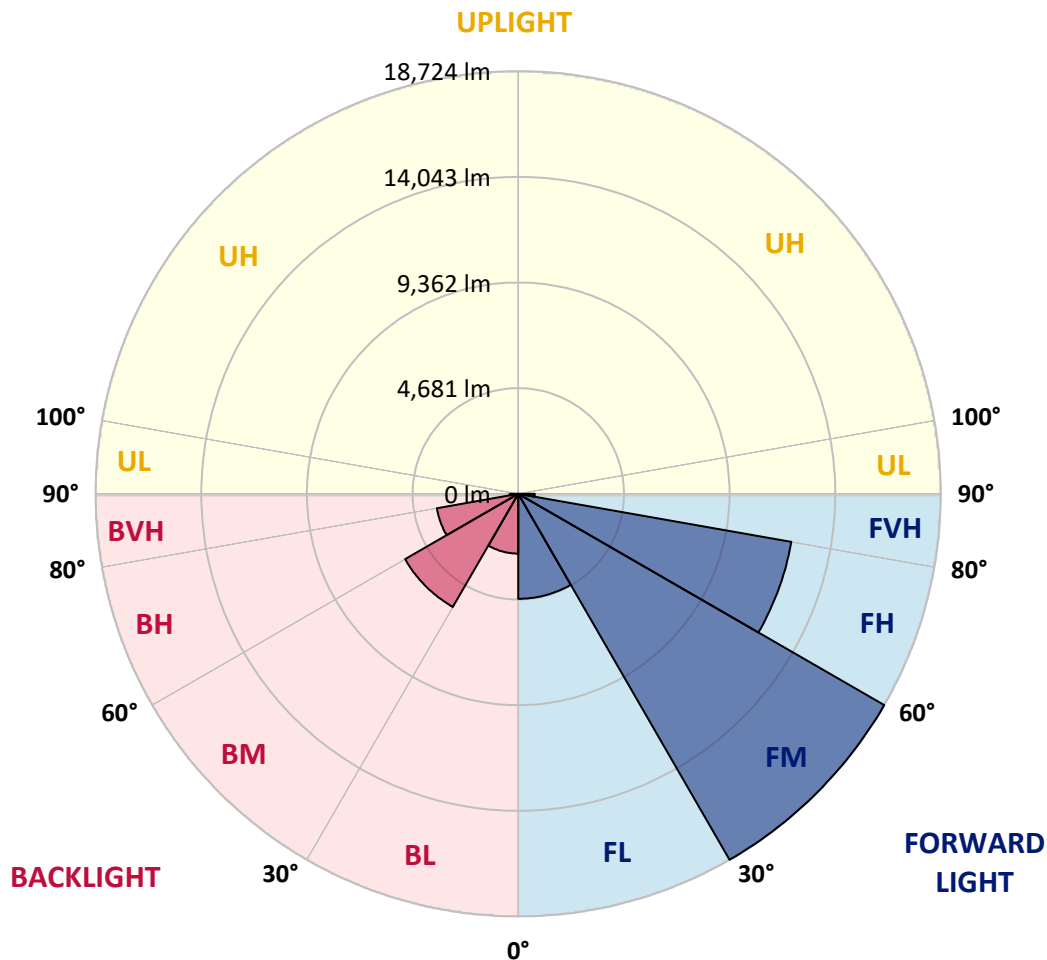


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4651.8	9.5			
FM (30°-60°)	18723.5	38.3			
FH (60°-80°)	12285.3	25.1			G5
FVH (80°-90°)	733.8	1.5			G4/750
BL (0°-30°)	2649.7	5.4	B4/5000		
BM (30°-60°)	5790.7	11.8	B4/8500		
BH (60°-80°)	3664.5	7.5	B4/5000		G4/5000
BVH (80°-90°)	376.7	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	8194.1	8194.1	8194.1	8194.1	8194.1	8194.1	8194.1	8194.1	8194.1	8194.1	8194.1
2.5°	8735.7	8718.9	8698.4	8663.1	8622.1	8573.7	8523.5	8410.0	8292.7	8255.5	8175.5
5°	9215.8	9184.2	9158.1	9124.6	9046.4	8947.8	8815.7	8629.6	8447.2	8389.5	8223.9
7.5°	9640.1	9604.8	9558.2	9513.6	9428.0	9301.4	9122.8	8886.4	8666.8	8566.3	8296.5
10°	10017.9	9984.4	9960.2	9910.0	9841.1	9688.5	9476.3	9180.4	8925.5	8785.9	8411.8
12.5°	10436.6	10408.7	10358.5	10300.8	10209.6	10062.6	9850.4	9528.5	9256.7	9087.4	8588.6
15°	10862.8	10844.2	10754.9	10721.4	10619.0	10449.7	10261.7	9930.4	9653.1	9442.8	8841.7
17.5°	11240.6	11227.6	11171.7	11132.7	11048.9	10859.1	10665.5	10362.2	10079.3	9811.3	9122.8
20°	11482.5	11501.1	11490.0	11482.5	11476.9	11320.6	11128.9	10816.3	10531.5	10265.4	9424.2
22.5°	11707.7	11715.2	11744.9	11813.8	11912.4	11843.6	11637.0	11348.5	11058.2	10740.0	9815.1
25°	11778.4	11784.0	11899.4	12107.8	12385.1	12414.9	12245.6	12052.0	11735.6	11423.0	10351.0
27.5°	11836.1	11851.0	11996.2	12360.9	12848.5	12990.0	12928.5	12865.3	12642.0	12314.4	11071.2
30°	11819.4	11823.1	12063.2	12532.2	13217.0	13598.5	13691.6	13996.8	13940.9	13717.6	12277.2
32.5°	11512.3	11484.4	11832.4	12535.9	13505.5	14208.9	14638.8	15507.9	15837.3	15896.9	14689.1
35°	10887.0	10887.0	11408.1	12390.7	13713.9	14811.9	15718.2	17346.6	18457.7	18487.4	16981.9
37.5°	10365.9	10399.4	10983.8	12119.0	13810.7	15424.2	16955.8	19594.7	20767.2	20666.7	18896.9
40°	9846.7	9887.6	10486.9	11748.7	13753.0	15952.7	18156.2	21738.6	22713.8	22483.1	20529.0
42.5°	9271.6	9303.3	9865.3	11222.0	13553.9	16337.9	19445.9	23568.0	24344.1	24063.1	22017.8
45°	8696.6	8750.5	9256.7	10514.8	13164.9	16568.7	20551.3	25228.1	25857.1	25533.3	23372.6
47.5°	7849.8	8058.2	8648.2	9816.9	12459.6	16552.0	21532.1	26718.8	27252.9	26908.6	24593.5
50°	6128.4	6251.2	7552.0	9184.2	11529.1	16218.8	22306.3	28049.4	28507.2	28202.0	25827.3
52.5°	5566.3	5599.8	6020.4	8408.1	10498.0	15560.0	22879.5	29279.5	29726.2	29376.3	26943.9
55°	5277.9	5296.5	5503.1	6874.6	9623.4	14346.7	23140.0	30416.6	30753.5	30358.9	27889.3
57.5°	4885.2	4942.9	5231.3	5860.4	8728.2	12630.8	22803.2	31309.9	31646.8	31218.7	28793.8
60°	4594.9	4630.2	4877.7	5365.3	7691.6	10624.6	21638.2	31955.7	32409.8	32015.2	29633.1
62.5°	4308.3	4328.7	4537.2	5006.2	6800.2	9132.1	19462.6	31881.2	32800.6	32603.3	30377.5
63°	4248.7	4267.3	4475.8	4941.0	6668.1	8826.8	19004.8	31788.2	32800.6	32662.9	30470.6
65°	3984.5	4006.8	4213.4	4637.7	6115.3	8060.1	16961.4	31209.4	32683.3	32748.5	30602.7
67.5°	3591.8	3629.0	3800.2	4170.6	5285.3	7125.9	13929.8	30604.6	31842.2	31981.7	29871.3
70°	3128.4	3135.8	3342.4	3653.2	4455.3	6061.4	10738.1	28769.6	30198.9	30260.3	28161.0
72.5°	2635.2	2655.7	2841.8	3104.2	3696.0	5019.2	7676.7	25365.8	27902.4	28248.5	25296.9
75°	2300.2	2317.0	2473.3	2657.5	3068.8	3956.5	5134.6	18496.7	24599.0	24984.3	21881.9
77.5°	1926.2	1937.3	2101.1	2227.6	2493.8	2985.1	3545.3	9759.2	16942.8	18993.6	17095.4
80°	1371.6	1373.4	1537.2	1635.8	1807.1	1835.0	2253.7	5194.1	7455.3	9634.5	11298.3
82.5°	297.8	428.0	643.9	809.5	906.3	763.0	1109.2	2845.5	4118.5	4916.8	6124.6
85°	128.4	176.8	340.6	374.1	249.4	275.4	450.4	1516.7	2354.2	2802.7	3152.6
87.5°	24.2	31.6	87.5	117.2	72.6	76.3	91.2	485.7	824.4	967.7	1079.4
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°	8194.1	8194.1	8194.1	8194.1	8194.1	8194.1	8194.1	8194.1	8194.1	8194.1	8194.1
2.5°	8127.1	8104.8	8030.3	7980.1	7948.4	7907.5	7855.4	7786.5	7766.1	7717.7	7756.8
5°	8132.7	8073.1	7916.8	7803.3	7700.9	7611.6	7507.4	7408.7	7371.5	7306.4	7332.4
7.5°	8158.7	8058.2	7816.3	7643.2	7490.6	7369.7	7224.5	7103.5	7060.7	6986.3	6999.3
10°	8227.6	8071.3	7738.1	7527.9	7317.6	7140.8	6971.4	6805.8	6731.3	6666.2	6697.8
12.5°	8348.6	8119.7	7702.8	7432.9	7153.8	6937.9	6690.4	6478.2	6374.0	6290.3	6318.2
15°	8530.9	8212.7	7661.8	7297.1	6960.2	6679.2	6375.9	6107.9	5990.6	5925.5	5957.1
17.5°	8717.0	8348.6	7637.7	7131.5	6727.6	6362.8	6070.7	5817.6	5603.5	5555.2	5573.8
20°	8936.6	8488.1	7656.3	6956.5	6454.0	6022.3	5676.1	5506.8	5229.5	5132.7	5138.3
22.5°	9227.0	8705.9	7673.0	6785.3	6128.4	5646.4	5242.5	5075.0	4808.9	4637.7	4645.1
25°	9643.8	8975.7	7712.1	6627.1	5808.3	5233.2	4766.1	4486.9	4321.3	4103.6	4105.4
27.5°	10215.2	9346.1	7790.3	6478.2	5467.7	4758.6	4187.3	3874.7	3729.5	3586.2	3567.6
30°	11190.4	9958.4	7905.6	6314.5	5063.9	4185.4	3576.9	3303.3	3180.5	3063.2	3050.2
32.5°	13248.6	11445.3	8065.7	6107.9	4628.4	3534.1	3037.2	2821.3	2648.2	2532.9	2549.6
35°	15360.9	13308.2	8743.1	5862.2	4137.1	2964.6	2631.5	2363.5	2142.0	2052.7	2058.3
37.5°	17169.8	14996.1	9761.1	5596.1	3593.6	2598.0	2223.9	1965.2	1788.4	1743.8	1799.6
40°	18675.4	16382.6	10578.1	5315.1	3022.3	2289.1	1812.6	1671.2	1557.7	1544.7	1594.9
42.5°	20099.1	17635.1	11264.8	4991.3	2490.1	1890.8	1505.6	1539.1	1522.3	1520.5	1527.9
45°	21392.5	18796.4	11648.2	4509.3	2114.1	1548.4	1421.8	1548.4	1576.3	1572.6	1552.1
47.5°	22570.5	19857.1	11908.7	3811.4	1790.3	1451.6	1468.3	1554.0	1606.1	1615.4	1593.0
50°	23793.2	20893.7	11949.6	2966.5	1661.9	1527.9	1509.3	1498.1	1593.0	1591.2	1593.0
52.5°	24885.6	21783.3	11503.0	2305.8	1728.9	1607.9	1542.8	1477.7	1531.6	1533.5	1496.3
55°	25708.2	22512.8	10738.1	2021.1	1784.7	1674.9	1639.6	1509.3	1475.8	1453.5	1466.5
57.5°	26556.8	23164.2	9699.7	1892.7	1801.5	1689.8	1725.2	1516.7	1466.5	1364.1	1356.7
60°	27373.8	23690.9	8469.5	1807.1	1781.0	1682.4	1671.2	1574.4	1477.7	1325.1	1272.9
62.5°	27870.7	23806.2	7211.5	1723.3	1741.9	1671.2	1611.6	1617.2	1550.2	1466.5	1455.3
63°	27928.4	23767.2	6971.4	1702.8	1732.6	1669.3	1611.6	1621.0	1550.2	1500.0	1501.8
65°	27855.8	23313.1	6029.7	1615.4	1699.1	1639.6	1587.5	1540.9	1425.5	1457.2	1494.4
67.5°	27040.7	21828.0	4635.8	1473.9	1624.7	1591.2	1514.9	1399.5	1295.3	1274.8	1297.1
70°	24839.1	19395.6	3284.7	1256.2	1490.7	1529.8	1496.3	1323.2	1219.0	1200.4	1245.0
72.5°	21783.3	16840.4	2255.6	1005.0	1248.7	1423.7	1414.4	1274.8	1181.8	1127.8	1150.1
75°	18336.7	13583.6	1576.3	846.8	962.2	1282.2	1341.8	1233.9	1163.1	1112.9	1105.4
77.5°	14117.7	10259.8	1239.4	723.9	794.7	1038.5	1233.9	1224.6	1312.0	1548.4	1496.3
80°	9617.8	6822.5	893.3	543.4	632.7	727.7	1062.6	1263.6	1660.0	975.2	956.6
82.5°	5590.5	4008.7	558.3	361.0	377.8	495.0	666.2	1334.4	1111.0	439.2	554.6
85°	2700.3	1745.6	279.2	249.4	173.1	186.1	308.9	1243.2	787.2	195.4	39.1
87.5°	861.7	424.3	29.8	22.3	26.1	37.2	147.0	759.3	463.4	167.5	24.2
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)