

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: P285753

Luminaire Tested: **PRV-XL-C150-D-UNV-T2-BZ**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285753
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-C150-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: 41349 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

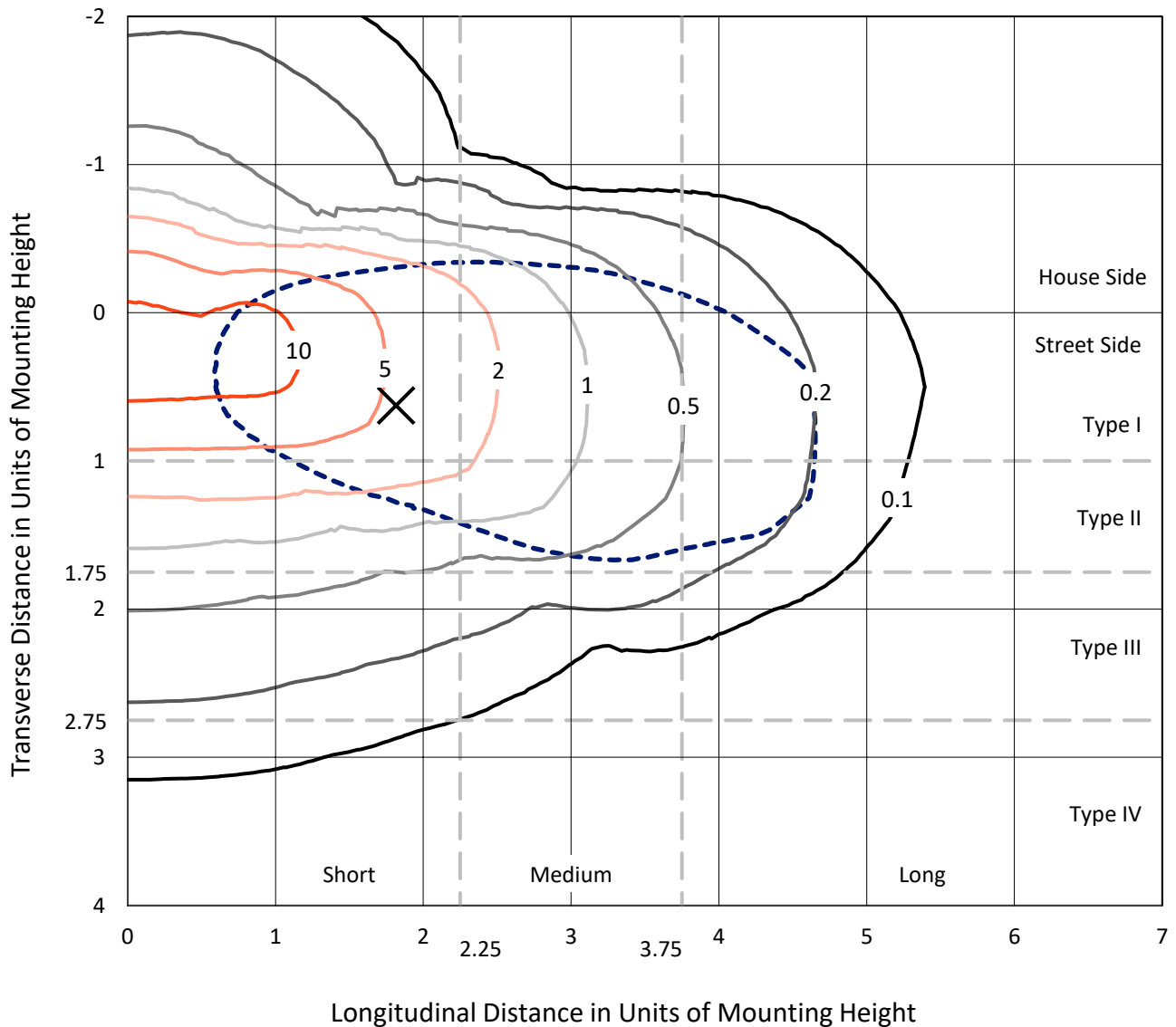
Input Watts (W): 285
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

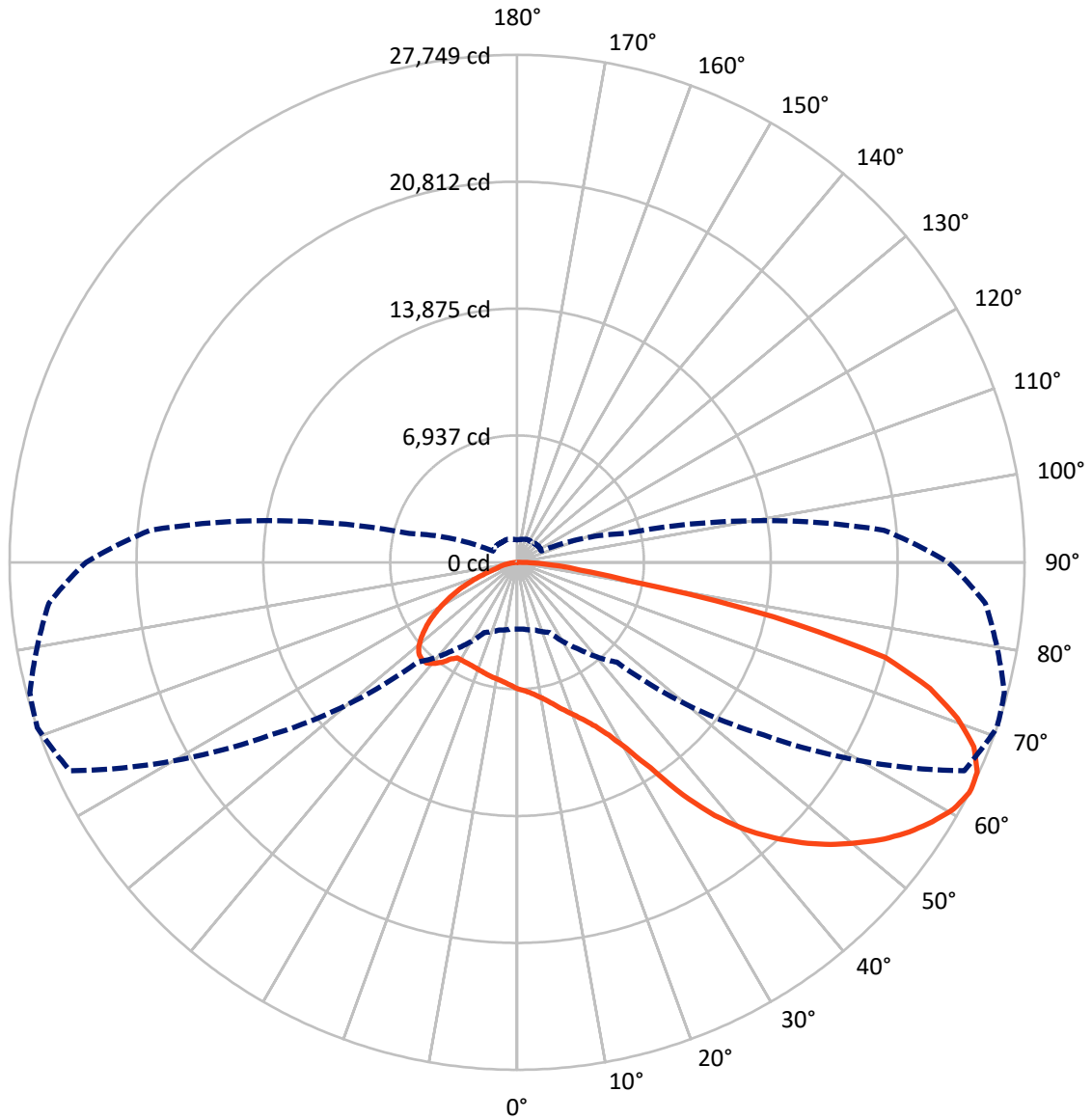
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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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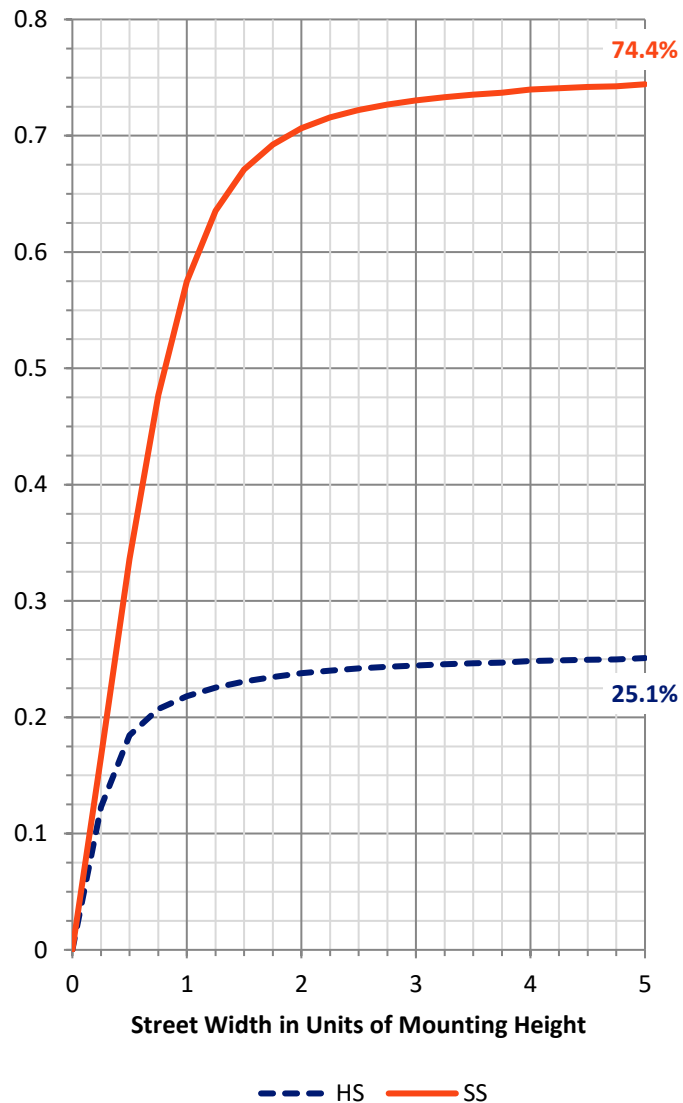
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10559.3	0.0	10559.3
	% Fixture	25.5	0.0	25.5
Street Side	Lumens	30789.7	0.0	30789.7
	% Fixture	74.5	0.0	74.5
Total	Lumens	41349.0	0.0	41349.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	667.9	1.6
10°-20°	2044.1	4.9
20°-30°	3465.1	8.4
30°-40°	5222.7	12.6
40°-50°	7174.8	17.4
50°-60°	8341.5	20.2
60°-70°	8230.7	19.9
70°-80°	5262.9	12.7
80°-90°	939.5	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°	41349.0	100.0
0°-180°	41349.0	100.0

Coefficient of Utilization

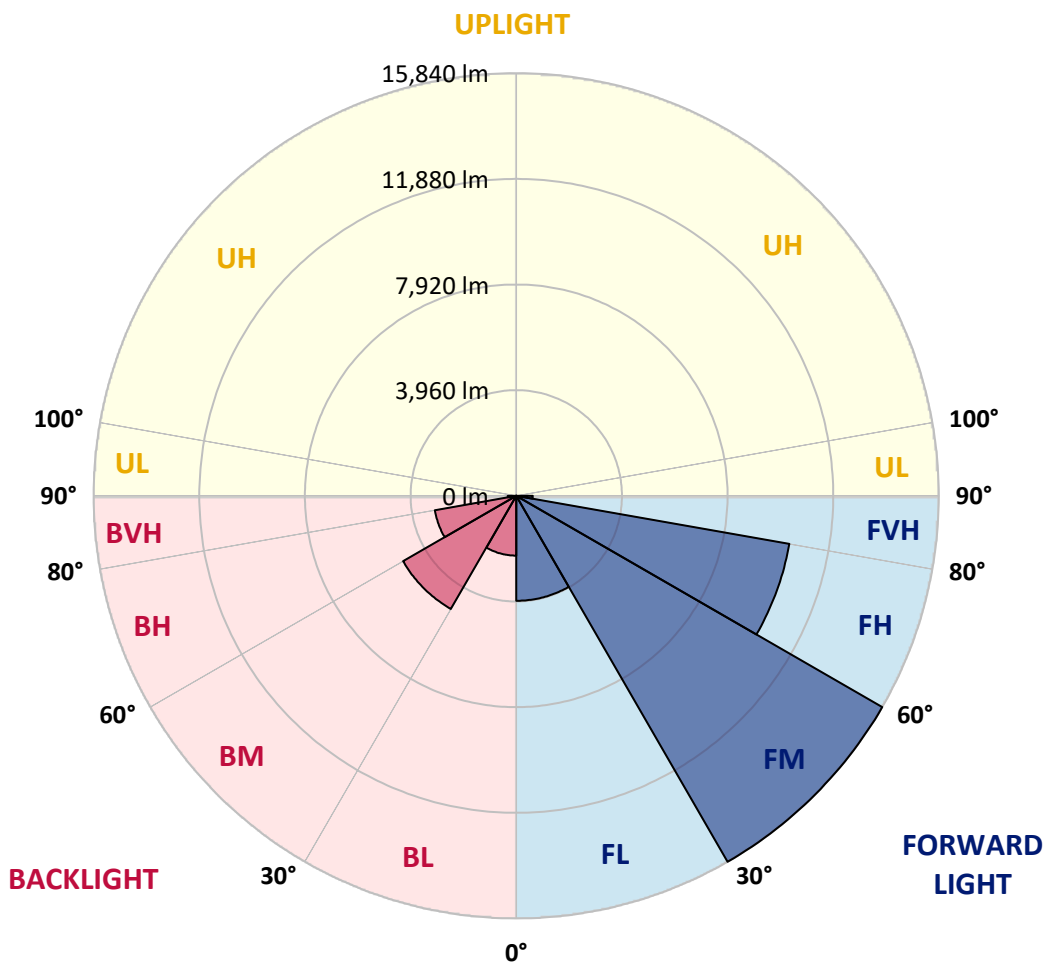


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3935.5	9.5			
FM (30°-60°)	15840.0	38.3			
FH (60°-80°)	10393.4	25.1			G4/12000
FVH (80°-90°)	620.8	1.5			G4/750
BL (0°-30°)	2241.6	5.4	B3/2500		
BM (30°-60°)	4898.9	11.8	B3/5000		
BH (60°-80°)	3100.2	7.5	B4/5000		G4/5000
BVH (80°-90°)	318.7	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	6932.2	6932.2	6932.2	6932.2	6932.2	6932.2	6932.2	6932.2	6932.2	6932.2	6932.2
2.5°	7390.3	7376.2	7358.9	7328.9	7294.3	7253.4	7210.9	7114.8	7015.6	6984.1	6916.4
5°	7796.6	7769.8	7747.7	7719.4	7653.3	7569.8	7458.0	7300.6	7146.3	7097.5	6957.4
7.5°	8155.5	8125.6	8086.2	8048.5	7976.0	7869.0	7717.8	7517.9	7332.1	7247.1	7018.8
10°	8475.1	8446.8	8426.3	8383.8	8325.6	8196.5	8017.0	7766.6	7550.9	7432.9	7116.4
12.5°	8829.4	8805.8	8763.2	8714.4	8637.3	8512.9	8333.4	8061.1	7831.2	7687.9	7266.0
15°	9189.9	9174.2	9098.6	9070.3	8983.7	8840.4	8681.4	8401.1	8166.5	7988.6	7480.1
17.5°	9509.5	9498.5	9451.3	9418.2	9347.4	9186.8	9023.0	8766.4	8527.1	8300.4	7717.8
20°	9714.2	9729.9	9720.5	9714.2	9709.5	9577.2	9415.1	9150.6	8909.7	8684.5	7972.9
22.5°	9904.7	9911.0	9936.2	9994.4	10077.9	10019.6	9844.9	9600.8	9355.2	9086.0	8303.5
25°	9964.5	9969.3	10066.9	10243.2	10477.8	10503.0	10359.7	10196.0	9928.3	9663.8	8756.9
27.5°	10013.3	10025.9	10148.7	10457.3	10869.8	10989.5	10937.5	10884.0	10695.1	10418.0	9366.3
30°	9999.2	10002.3	10205.4	10602.2	11181.6	11504.3	11583.0	11841.2	11794.0	11605.1	10386.5
32.5°	9739.4	9715.8	10010.2	10605.3	11425.6	12020.7	12384.4	13119.7	13398.4	13448.7	12426.9
35°	9210.4	9210.4	9651.2	10482.5	11601.9	12530.8	13297.6	14675.2	15615.1	15640.3	14366.6
37.5°	8769.5	8797.9	9292.3	10252.7	11683.8	13048.8	14344.6	16577.1	17569.0	17484.0	15986.7
40°	8330.3	8364.9	8871.9	9939.3	11635.0	13496.0	15360.1	18390.9	19215.9	19020.6	17367.5
42.5°	7843.8	7870.5	8346.0	9493.8	11466.5	13821.9	16451.2	19938.5	20595.0	20357.3	18627.0
45°	7357.3	7402.9	7831.2	8895.5	11137.5	14017.1	17386.4	21342.9	21875.1	21601.1	19773.2
47.5°	6640.9	6817.3	7316.4	8305.1	10540.8	14002.9	18216.1	22604.0	23055.9	22764.6	20806.0
50°	5184.6	5288.5	6389.0	7769.8	9753.6	13721.1	18871.1	23729.7	24117.0	23858.8	21849.9
52.5°	4709.1	4737.4	5093.3	7113.3	8881.3	13163.8	19356.0	24770.4	25148.3	24852.3	22794.5
55°	4465.1	4480.8	4655.6	5815.9	8141.3	12137.2	19576.4	25732.4	26017.4	25683.6	23594.3
57.5°	4132.9	4181.7	4425.7	4957.9	7384.1	10685.6	19291.4	26488.1	26773.1	26411.0	24359.5
60°	3887.3	3917.2	4126.6	4539.1	6507.1	8988.4	18305.8	27034.4	27418.6	27084.8	25069.6
62.5°	3644.8	3662.1	3838.4	4235.2	5752.9	7725.7	16465.3	26971.5	27749.2	27582.3	25699.3
63°	3594.4	3610.2	3786.5	4180.1	5641.2	7467.5	16078.0	26892.7	27749.2	27632.7	25778.1
65°	3370.8	3389.7	3564.5	3923.5	5173.6	6818.8	14349.3	26403.1	27650.0	27705.1	25889.8
67.5°	3038.6	3070.1	3215.0	3528.3	4471.4	6028.5	11784.6	25891.4	26938.4	27056.5	25271.1
70°	2646.6	2652.9	2827.7	3090.6	3769.2	5127.9	9084.4	24339.0	25548.2	25600.1	23824.2
72.5°	2229.4	2246.7	2404.1	2626.1	3126.8	4246.2	6494.5	21459.4	23605.3	23898.2	21401.2
75°	1946.0	1960.2	2092.4	2248.3	2596.2	3347.2	4343.8	15648.2	20810.7	21136.6	18512.1
77.5°	1629.5	1639.0	1777.5	1884.6	2109.7	2525.4	2999.3	8256.3	14333.6	16068.6	14462.7
80°	1160.4	1161.9	1300.5	1383.9	1528.8	1552.4	1906.6	4394.2	6307.1	8150.8	9558.3
82.5°	251.9	362.1	544.8	684.9	766.7	645.5	938.4	2407.3	3484.2	4159.6	5181.4
85°	108.6	149.6	288.1	316.5	211.0	233.0	381.0	1283.2	1991.6	2371.1	2667.1
87.5°	20.5	26.8	74.0	99.2	61.4	64.6	77.1	410.9	697.5	818.7	913.2
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°	6932.2	6932.2	6932.2	6932.2	6932.2	6932.2	6932.2	6932.2	6932.2	6932.2	6932.2
2.5°	6875.5	6856.6	6793.6	6751.1	6724.4	6689.7	6645.6	6587.4	6570.1	6529.1	6562.2
5°	6880.2	6829.9	6697.6	6601.6	6515.0	6439.4	6351.2	6267.8	6236.3	6181.2	6203.2
7.5°	6902.3	6817.3	6612.6	6466.2	6337.1	6234.7	6111.9	6009.6	5973.4	5910.4	5921.4
10°	6960.5	6828.3	6546.5	6368.5	6190.6	6041.1	5897.8	5757.7	5694.7	5639.6	5666.4
12.5°	7062.9	6869.2	6516.5	6288.3	6052.1	5869.5	5660.1	5480.6	5392.4	5321.6	5345.2
15°	7217.2	6947.9	6481.9	6173.3	5888.3	5650.6	5394.0	5167.3	5068.1	5013.0	5039.7
17.5°	7374.6	7062.9	6461.4	6033.2	5691.5	5383.0	5135.8	4921.7	4740.6	4699.7	4715.4
20°	7560.4	7181.0	6477.2	5885.2	5460.1	5094.8	4802.0	4658.7	4424.1	4342.3	4347.0
22.5°	7806.0	7365.2	6491.4	5740.4	5184.6	4776.8	4435.2	4293.5	4068.3	3923.5	3929.8
25°	8158.7	7593.4	6524.4	5606.5	4913.8	4427.3	4032.1	3795.9	3655.8	3471.6	3473.2
27.5°	8642.0	7906.8	6590.5	5480.6	4625.7	4025.8	3542.5	3278.0	3155.1	3033.9	3018.2
30°	9467.0	8424.7	6688.2	5342.0	4284.0	3540.9	3026.0	2794.6	2690.7	2591.5	2580.5
32.5°	11208.3	9682.7	6823.6	5167.3	3915.6	2989.8	2569.5	2386.8	2240.4	2142.8	2157.0
35°	12995.3	11258.7	7396.6	4959.4	3499.9	2508.1	2226.2	1999.5	1812.2	1736.6	1741.3
37.5°	14525.6	12686.7	8257.9	4734.3	3040.2	2197.9	1881.4	1662.6	1513.0	1475.2	1522.5
40°	15799.4	13859.7	8949.0	4496.6	2556.9	1936.5	1533.5	1413.8	1317.8	1306.8	1349.3
42.5°	17003.8	14919.2	9530.0	4222.6	2106.6	1599.6	1273.7	1302.0	1287.9	1286.3	1292.6
45°	18098.0	15901.7	9854.3	3814.8	1788.5	1309.9	1202.9	1309.9	1333.5	1330.4	1313.1
47.5°	19094.6	16799.1	10074.7	3224.4	1514.6	1228.1	1242.2	1314.6	1358.7	1366.6	1347.7
50°	20129.0	17676.1	10109.4	2509.6	1406.0	1292.6	1276.9	1267.4	1347.7	1346.1	1347.7
52.5°	21053.2	18428.6	9731.5	1950.7	1462.6	1360.3	1305.2	1250.1	1295.8	1297.3	1265.8
55°	21749.1	19045.8	9084.4	1709.8	1509.9	1417.0	1387.1	1276.9	1248.5	1229.6	1240.6
57.5°	22467.0	19596.9	8205.9	1601.2	1524.0	1429.6	1459.5	1283.2	1240.6	1154.1	1147.8
60°	23158.2	20042.4	7165.2	1528.8	1506.7	1423.3	1413.8	1332.0	1250.1	1121.0	1076.9
62.5°	23578.6	20140.0	6100.9	1457.9	1473.7	1413.8	1363.5	1368.2	1311.5	1240.6	1231.2
63°	23627.4	20107.0	5897.8	1440.6	1465.8	1412.3	1363.5	1371.3	1311.5	1269.0	1270.6
65°	23566.0	19722.8	5101.1	1366.6	1437.4	1387.1	1343.0	1303.6	1206.0	1232.8	1264.3
67.5°	22876.4	18466.4	3921.9	1246.9	1374.5	1346.1	1281.6	1184.0	1095.8	1078.5	1097.4
70°	21013.8	16408.7	2778.9	1062.7	1261.1	1294.2	1265.8	1119.4	1031.2	1015.5	1053.3
72.5°	18428.6	14247.0	1908.2	850.2	1056.4	1204.4	1196.6	1078.5	999.8	954.1	973.0
75°	15512.8	11491.7	1333.5	716.4	814.0	1084.8	1135.2	1043.8	984.0	941.5	935.2
77.5°	11943.6	8679.8	1048.6	612.5	672.3	878.5	1043.8	1036.0	1110.0	1309.9	1265.8
80°	8136.6	5771.8	755.7	459.7	535.3	615.6	899.0	1069.0	1404.4	825.0	809.3
82.5°	4729.6	3391.3	472.3	305.4	319.6	418.8	563.6	1128.9	939.9	371.6	469.2
85°	2284.5	1476.8	236.2	211.0	146.4	157.4	261.4	1051.7	666.0	165.3	33.1
87.5°	729.0	359.0	25.2	18.9	22.0	31.5	124.4	642.4	392.0	141.7	20.5
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)