

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: P285798

Luminaire Tested: **PRV-XL-C150-D-UNV-T3-BZ-7050**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285798
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-C150-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: 41870 lumens
Efficiency: N/A
Efficacy: 146.9 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

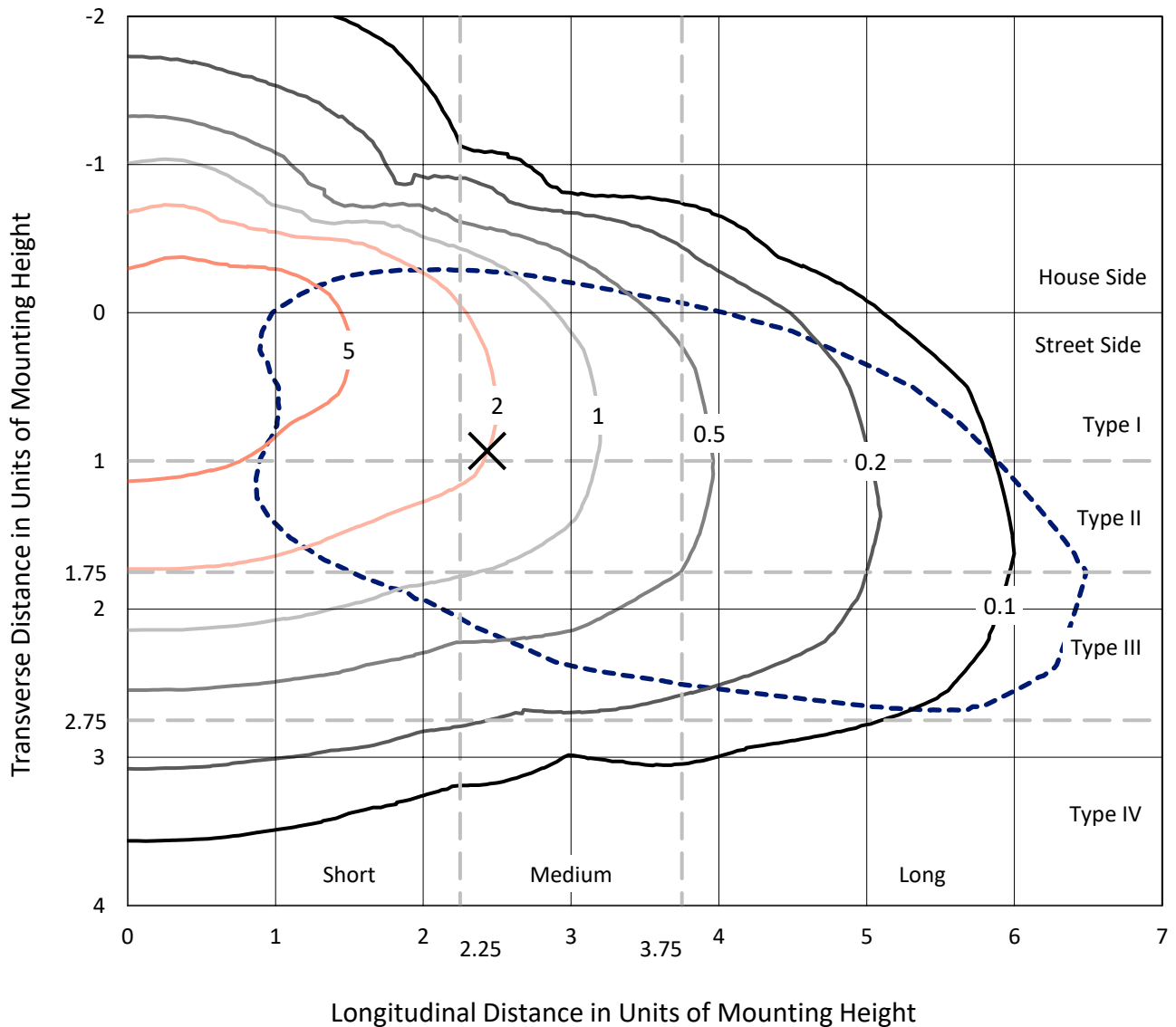
Input Watts (W): 285
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

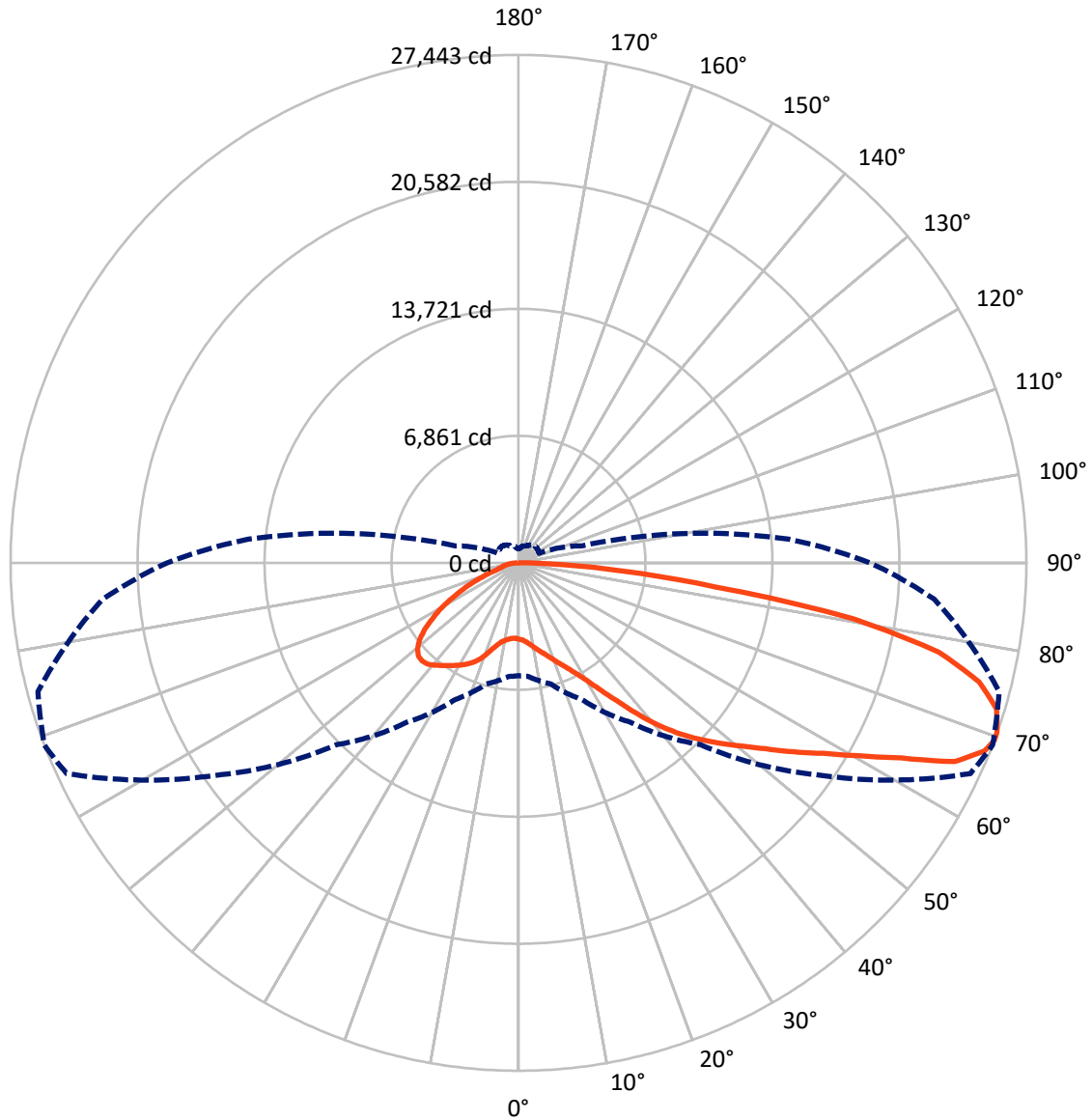
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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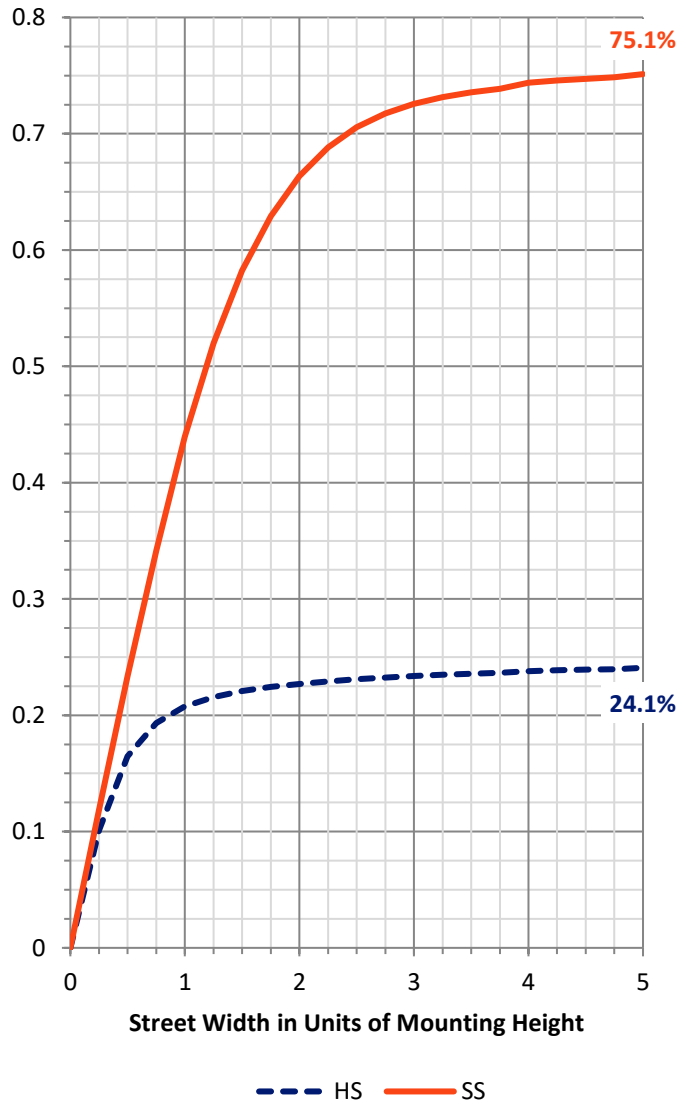
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10293.9	0.0	10293.9
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	31576.1	0.0	31576.1
	% Fixture	75.4	0.0	75.4
Total	Lumens	41870.0	0.0	41870.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.9	1.0
10°-20°	1326.1	3.2
20°-30°	2483.7	5.9
30°-40°	4220.1	10.1
40°-50°	6476.0	15.5
50°-60°	8461.2	20.2
60°-70°	9634.6	23.0
70°-80°	7273.9	17.4
80°-90°	1587.4	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°	41870.0	100.0
0°-180°	41870.0	100.0

Coefficient of Utilization

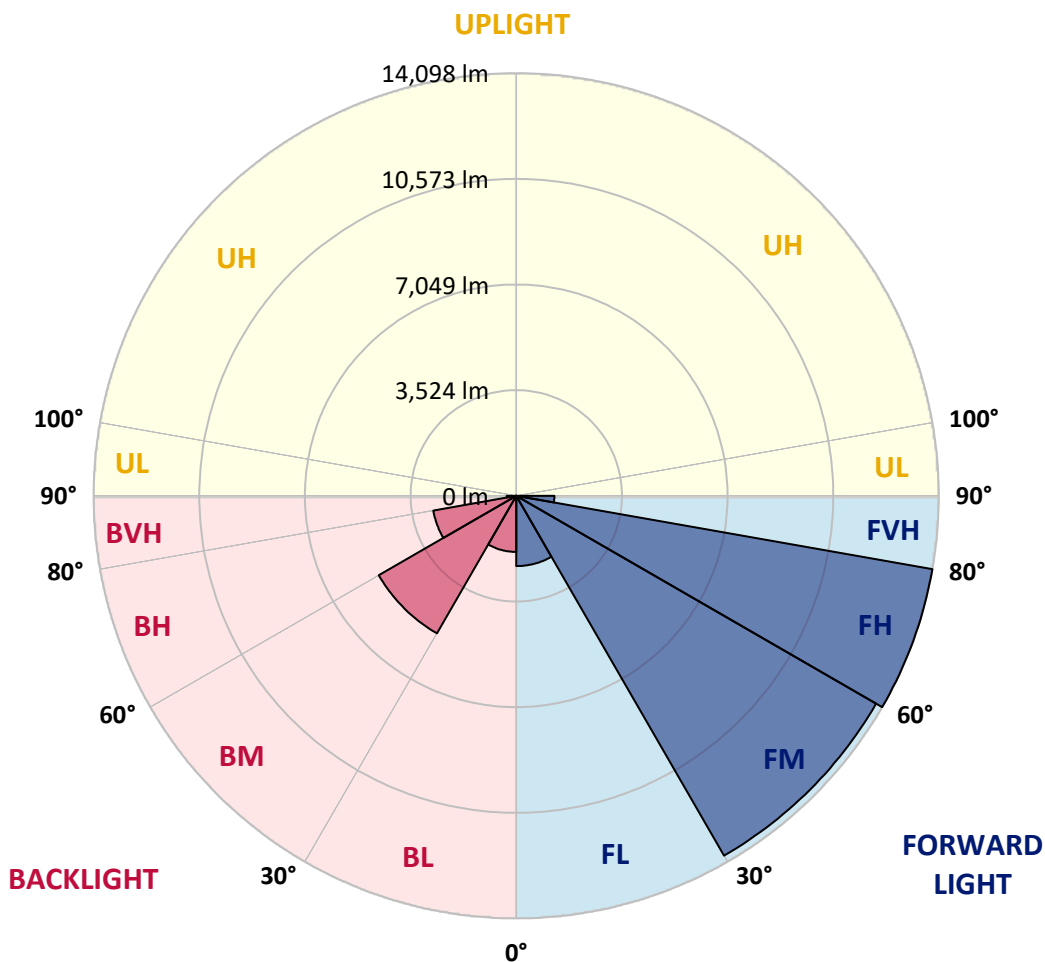


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2345.1	5.6			
FM (30°-60°)	13860.6	33.1			
FH (60°-80°)	14097.8	33.7			G5
FVH (80°-90°)	1272.7	3.0			G5
BL (0°-30°)	1871.7	4.5	B3/2500		
BM (30°-60°)	5296.7	12.7	B4/8500		
BH (60°-80°)	2810.8	6.7	B4/5000		G4/5000
BVH (80°-90°)	314.8	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°	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9
2.5°	4288.0	4300.8	4299.2	4292.8	4289.6	4271.9	4249.5	4220.6	4172.5	4150.1	4121.2
5°	4470.7	4480.3	4481.9	4470.7	4457.9	4430.6	4384.1	4339.2	4286.3	4254.3	4198.2
7.5°	4626.2	4634.2	4648.6	4639.0	4632.6	4610.1	4565.3	4512.4	4443.4	4398.6	4320.0
10°	4751.2	4757.6	4768.8	4784.9	4815.3	4796.1	4743.2	4706.3	4643.8	4574.9	4477.1
12.5°	4841.0	4836.2	4868.2	4897.1	4959.6	4980.4	4943.6	4916.3	4855.4	4784.9	4669.5
15°	4882.7	4881.1	4937.2	5009.3	5102.3	5135.9	5135.9	5105.5	5071.8	5017.3	4895.5
17.5°	4972.4	4978.8	5015.7	5108.7	5208.1	5286.6	5361.9	5365.1	5339.5	5302.6	5176.0
20°	5110.3	5121.5	5140.7	5214.5	5325.1	5462.9	5604.0	5655.3	5642.5	5628.0	5528.7
22.5°	5283.4	5288.2	5283.4	5347.5	5495.0	5680.9	5884.5	5969.5	5977.5	5979.1	5929.4
25°	5560.7	5539.9	5487.0	5544.7	5716.2	5931.0	6179.5	6320.5	6357.4	6391.1	6509.7
27.5°	6067.3	6019.2	5919.8	5900.5	5998.3	6234.0	6541.7	6777.4	6830.3	6923.2	7239.0
30°	6884.8	6820.6	6727.7	6443.9	6405.5	6607.5	6998.6	7335.2	7441.0	7723.1	8087.0
32.5°	7713.5	7671.8	7567.6	7295.1	7006.6	7081.9	7466.6	7992.4	8220.0	8790.7	9127.3
35°	8425.2	8404.4	8345.1	8212.0	7877.0	7665.4	8000.4	8731.4	9156.2	10047.4	10350.4
37.5°	9111.3	9101.7	9104.9	8923.7	8782.7	8478.1	8612.8	9593.8	10291.1	11363.5	11567.0
40°	9710.8	9715.6	9765.3	9682.0	9657.9	9468.8	9334.1	10513.9	11469.3	12665.1	12713.2
42.5°	10202.9	10207.7	10438.6	10313.5	10462.6	10420.9	10227.0	11373.1	12552.9	13718.2	13711.8
45°	10526.7	10534.7	10762.4	10863.3	11179.1	11317.0	11172.7	12254.7	13564.4	14692.8	14566.2
47.5°	10767.2	10760.8	10890.6	11297.8	11836.3	12108.9	12161.8	13256.6	14545.4	15595.3	15375.7
50°	10897.0	10911.4	11159.9	11703.3	12498.4	12878.3	13168.4	14439.6	15552.0	16465.7	16156.4
52.5°	10978.8	11050.9	11414.8	12060.8	13096.3	13691.0	14054.9	15750.8	16686.9	17369.8	16983.5
55°	11036.5	11167.9	11527.0	12248.3	13468.2	14349.8	14886.8	17103.7	18027.0	18394.1	17890.8
57.5°	10624.5	10751.1	11334.6	12277.2	13761.5	14891.6	15773.2	18532.0	19424.8	19657.3	18788.4
60°	9920.8	9996.1	10747.9	12051.1	13697.4	15383.7	16937.0	20226.3	21160.8	21178.5	19734.2
62.5°	9196.3	9226.7	9986.5	11461.3	13408.9	15545.6	18100.8	22484.9	23219.1	22994.6	20739.3
65°	8234.5	8268.1	9052.0	10491.5	12711.6	15366.1	19052.9	24865.3	25892.8	25293.3	21736.3
67.5°	6977.7	7051.5	7779.2	9112.9	11470.9	14672.0	19735.8	26505.2	27135.1	26619.0	22425.6
69°	6097.7	6166.6	6777.4	8159.1	10504.3	13889.8	20022.7	26938.0	27442.9	26880.2	22541.0
70°	5464.5	5517.4	6089.7	7445.8	9747.7	13221.3	20085.2	27055.0	27426.9	26889.9	22478.5
72.5°	3895.2	3940.1	4251.1	5209.7	7388.1	11074.9	19779.1	26737.6	27010.1	26235.9	21659.4
75°	2880.5	2915.8	3101.8	3441.6	4300.8	7836.9	17871.5	25418.3	25708.5	24806.0	19952.2
77.5°	2090.3	2119.1	2298.7	2630.5	3026.4	3690.0	12389.4	22940.1	23225.5	22500.9	17175.9
80°	1426.6	1457.1	1619.0	1899.5	2212.1	2455.8	6083.3	16789.5	18362.1	18009.4	12240.3
82.5°	267.7	328.6	695.7	985.8	1243.9	1330.5	2300.3	9231.5	10727.1	10941.9	6383.0
85°	177.9	192.4	424.8	413.6	405.6	594.7	900.9	4425.8	5599.2	5801.2	2755.5
87.5°	88.2	93.0	126.6	174.7	222.8	267.7	296.5	1167.0	1686.3	1808.2	514.6
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°	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9
2.5°	4110.0	4102.0	4078.0	4068.3	4061.9	4058.7	4020.3	4013.8	3994.6	3981.8	3970.6
5°	4170.9	4158.1	4102.0	4081.2	4049.1	4021.9	3957.7	3930.5	3911.3	3885.6	3874.4
7.5°	4278.3	4255.9	4170.9	4132.5	4076.4	4029.9	3941.7	3900.0	3863.2	3827.9	3821.5
10°	4424.2	4382.5	4265.5	4206.2	4124.4	4069.9	3967.4	3887.2	3832.7	3792.6	3791.0
12.5°	4615.0	4552.4	4411.4	4332.8	4231.8	4148.5	4031.5	3911.3	3821.5	3757.4	3754.2
15°	4842.6	4776.9	4634.2	4533.2	4414.6	4302.4	4114.8	3936.9	3787.8	3685.2	3672.4
17.5°	5121.5	5059.0	4929.1	4847.4	4680.7	4459.5	4193.4	3927.3	3714.1	3573.0	3552.2
20°	5474.2	5491.8	5370.0	5192.0	4914.7	4589.3	4231.8	3877.6	3568.2	3371.1	3342.2
22.5°	5966.3	6025.6	5822.0	5495.0	5092.6	4658.2	4215.8	3746.1	3367.8	3129.0	3105.0
25°	6569.0	6551.3	6184.3	5717.8	5184.0	4656.6	4126.1	3558.6	3113.0	2843.7	2826.0
27.5°	7198.9	7093.2	6525.7	5873.3	5200.0	4568.5	3949.7	3276.5	2819.6	2595.2	2542.3
30°	8002.0	7707.1	6875.1	6004.7	5147.1	4400.2	3630.7	3005.6	2651.3	2407.7	2372.4
32.5°	8930.2	8439.7	7267.9	6044.8	5030.1	4142.1	3284.5	2880.5	2540.7	2263.4	2223.3
35°	10009.0	9377.4	7723.1	6059.2	4807.3	3759.0	3096.9	2808.4	2467.0	2152.8	2099.9
37.5°	11137.5	10371.2	8284.2	6043.2	4547.6	3339.0	2965.5	2704.2	2383.6	2127.1	2096.7
40°	12156.9	11328.2	8917.3	5998.3	4191.8	3066.5	2822.8	2559.9	2311.5	2117.5	2093.5
42.5°	13091.5	12161.8	9523.3	5923.0	3747.7	2872.5	2665.7	2452.5	2220.1	1982.9	1934.8
45°	13901.0	12931.2	9972.1	5743.5	3250.8	2673.8	2476.6	2303.5	2083.9	1848.2	1800.1
47.5°	14595.1	13566.0	10324.7	5435.7	2850.1	2487.8	2261.8	2125.5	1933.2	1708.8	1660.7
50°	15303.6	14082.1	10531.5	4927.5	2515.1	2274.6	2048.6	1918.8	1753.7	1590.1	1561.3
52.5°	16063.4	14920.5	10832.9	4090.8	2205.7	2050.2	1822.6	1681.5	1559.7	1490.8	1463.5
55°	16831.2	15664.2	10943.5	3093.7	1934.8	1873.9	1609.4	1426.6	1340.1	1296.8	1290.4
57.5°	17594.2	16299.0	10565.2	2202.5	1755.3	1670.3	1381.8	1208.6	1106.1	1136.5	1183.0
60°	18374.9	16762.3	9598.6	1723.2	1614.2	1426.6	1189.4	1061.2	1016.3	982.6	984.2
62.5°	19096.2	16978.7	7953.9	1463.5	1477.9	1276.0	1122.1	997.0	952.2	894.5	876.8
65°	19575.5	16597.2	6208.3	1354.5	1354.5	1237.5	1118.9	998.7	937.7	836.8	819.1
67.5°	19437.6	15603.3	4594.1	1256.7	1276.0	1253.5	1146.1	995.4	920.1	823.9	817.5
69°	18993.6	14651.2	3528.1	1227.9	1263.1	1268.0	1178.2	1011.5	939.3	793.5	758.2
70°	18548.0	13917.0	2920.6	1203.8	1259.9	1277.6	1203.8	1030.7	924.9	745.4	722.9
72.5°	17033.2	11762.6	1471.5	1110.9	1255.1	1288.8	1259.9	1102.8	916.9	718.1	698.9
75°	14975.0	9047.2	944.2	1032.3	1215.1	1301.6	1304.8	1170.2	920.1	702.1	678.1
77.5°	11998.2	5244.9	783.9	944.2	1139.7	1276.0	1319.2	1221.5	958.6	729.4	702.1
80°	6379.8	2074.2	630.0	806.3	1043.5	1199.0	1279.2	1203.8	949.0	609.1	591.5
82.5°	2824.4	644.4	461.7	633.2	820.7	1048.3	1086.8	1059.6	830.3	368.7	421.6
85°	793.5	266.1	307.8	455.2	567.5	742.2	851.2	854.4	644.4	160.3	36.9
87.5°	81.8	60.9	89.8	174.7	327.0	514.6	622.0	596.3	431.2	136.3	3.2
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)