

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: P622498

Luminaire Tested: **PRV-M-C250-D-U-T3-BZ-7030**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-C250-D-U-T3-BZ-7030
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66958 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

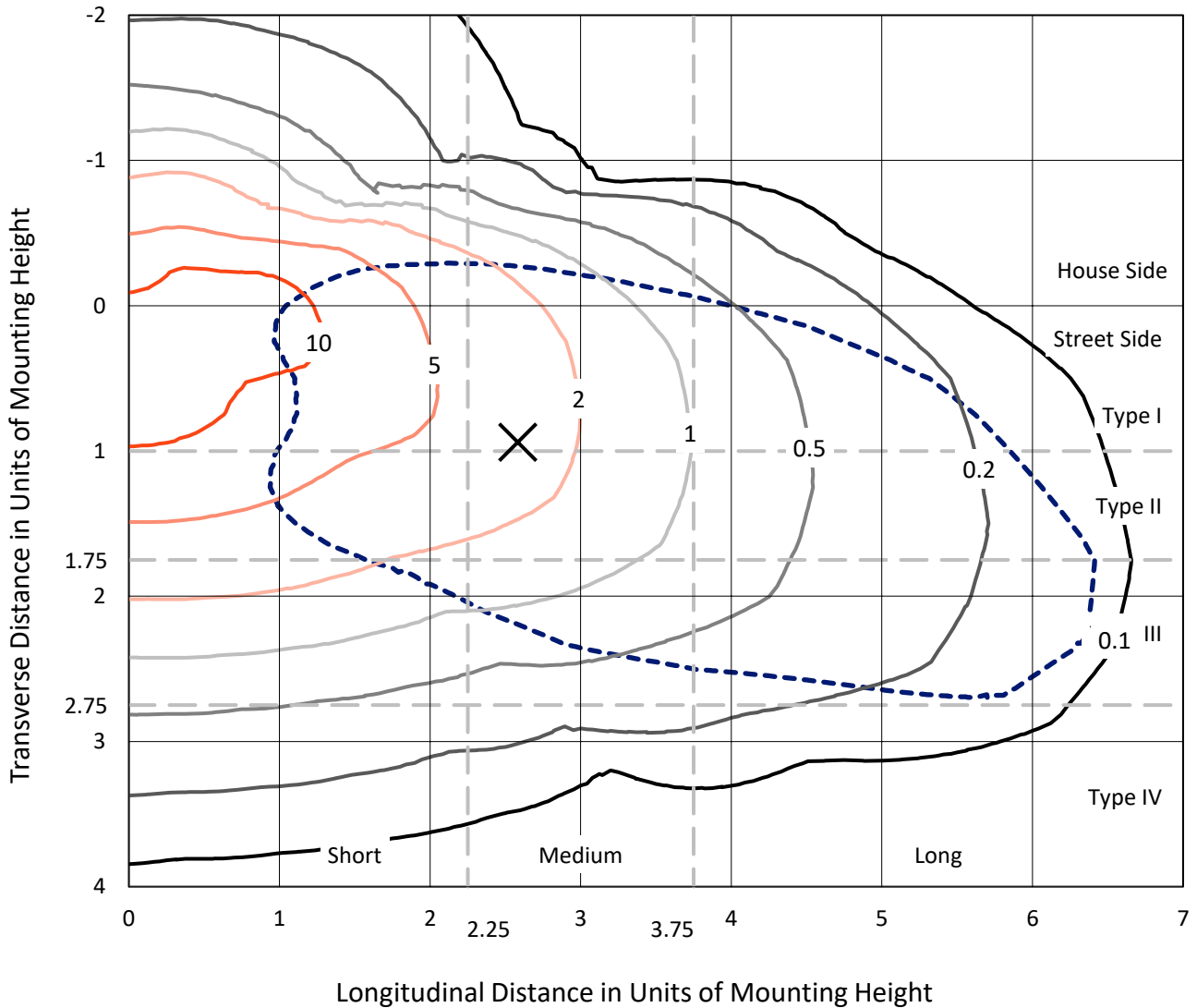
Input Watts (W): 486.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

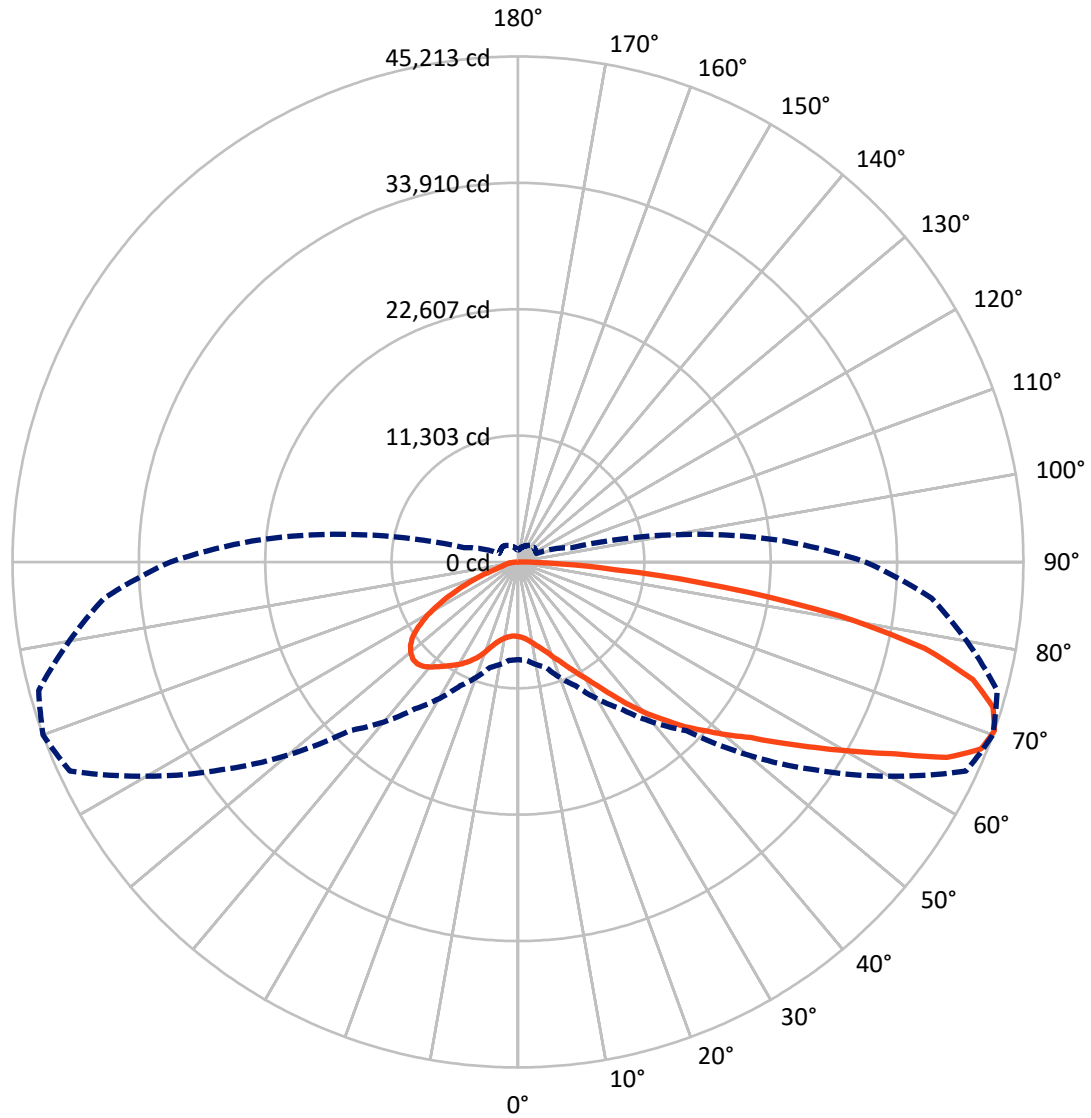
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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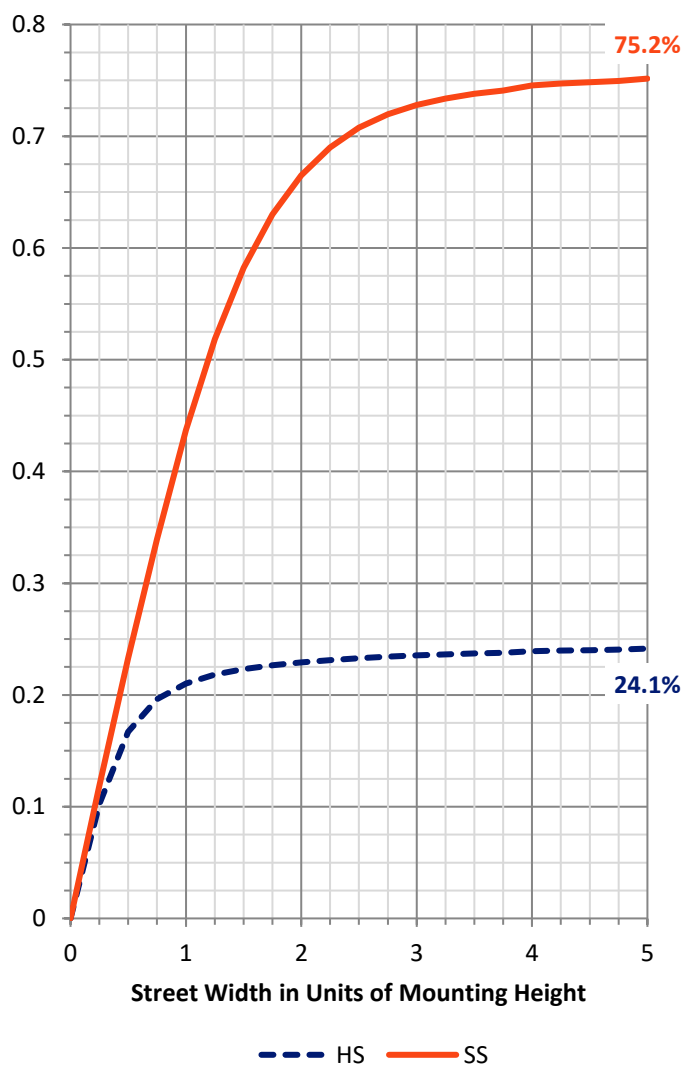
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16482.1	0.0	16482.1
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	50475.8	0.0	50475.8
	% Fixture	75.4	0.0	75.4
Total	Lumens	66958.0	0.0	66958.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.3	1.0
10°-20°	2113.4	3.2
20°-30°	3991.5	6.0
30°-40°	6668.3	10.0
40°-50°	10183.9	15.2
50°-60°	13569.5	20.3
60°-70°	15658.7	23.4
70°-80°	11689.9	17.5
80°-90°	2429.5	3.6
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°	66958.0	100.0
0°-180°	66958.0	100.0

Coefficient of Utilization

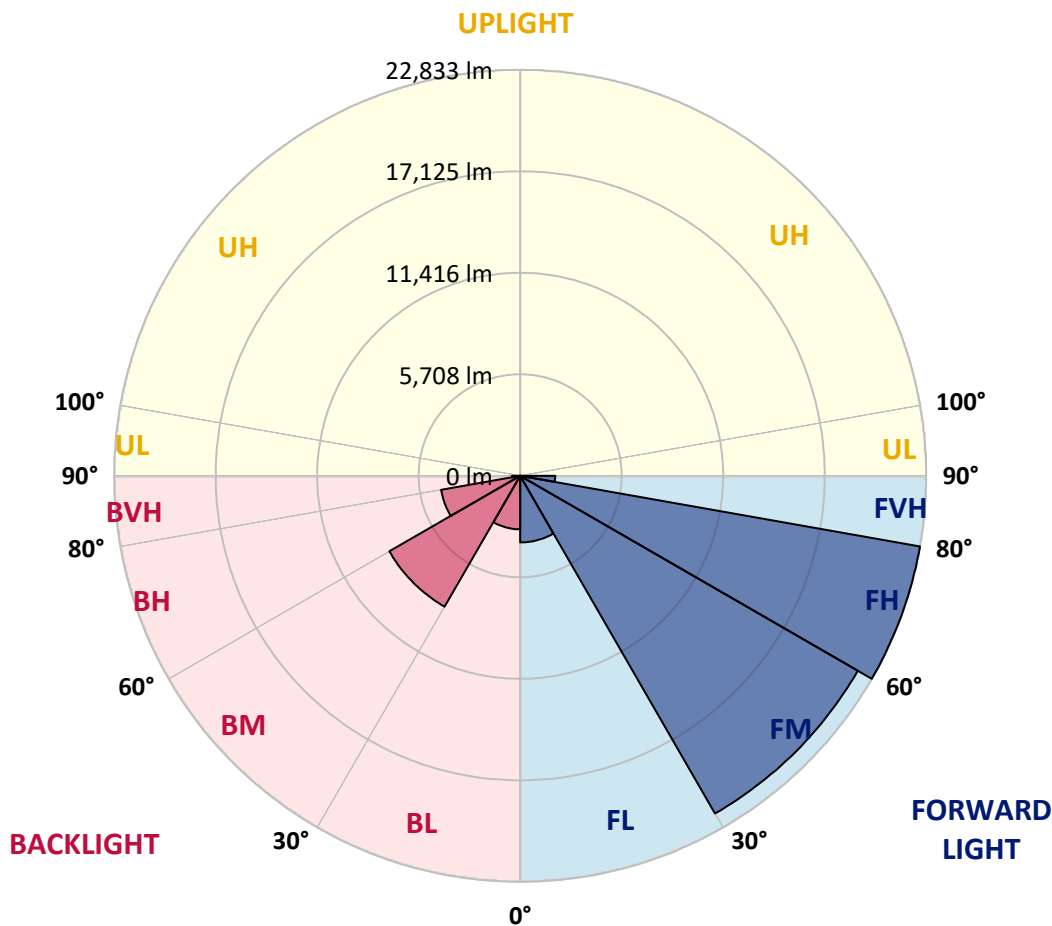


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3748.2	5.6			
FM (30°-60°)	21925.1	32.7			
FH (60°-80°)	22832.8	34.1			G5
FVH (80°-90°)	1969.7	2.9			G5
BL (0°-30°)	3010.0	4.5	B4/5000		
BM (30°-60°)	8496.6	12.7	B4/8500		
BH (60°-80°)	4515.7	6.7	B4/5000		G4/5000
BVH (80°-90°)	459.8	0.7			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°	70°	75°	85°
0°	6670.1	6670.1	6670.1	6670.1	6670.1	6670.1	6670.1	6670.1	6670.1	6670.1	6670.1
2.5°	6861.0	6874.4	6905.1	6857.0	6859.7	6803.6	6796.9	6780.9	6739.6	6728.9	6719.5
5°	7109.3	7140.0	7142.7	7109.3	7093.3	7002.5	6989.2	6954.5	6889.1	6859.7	6826.3
7.5°	7309.5	7337.6	7368.3	7342.9	7333.6	7256.1	7237.4	7172.0	7097.3	7054.6	6993.2
10°	7457.7	7503.1	7528.4	7536.4	7571.1	7511.1	7503.1	7455.0	7382.9	7310.9	7248.1
12.5°	7572.5	7617.9	7661.9	7703.3	7783.4	7786.1	7802.1	7779.4	7715.3	7636.6	7539.1
15°	7667.3	7706.0	7790.1	7878.2	8002.3	8054.4	8147.8	8139.8	8087.7	8002.3	7898.2
17.5°	7834.1	7888.8	7962.3	8071.7	8225.2	8330.7	8524.2	8584.3	8512.2	8484.2	8357.4
20°	8119.8	8146.5	8215.9	8308.0	8480.2	8687.1	8958.0	9116.9	9079.5	9052.8	8912.7
22.5°	8457.5	8484.2	8502.9	8591.0	8792.5	9099.5	9473.3	9702.9	9658.8	9669.5	9580.1
25°	8828.6	8865.9	8849.9	8927.3	9167.6	9496.0	9996.5	10358.3	10414.3	10447.7	10518.5
27.5°	9351.8	9401.2	9363.8	9387.9	9590.7	10001.9	10585.2	11088.4	11217.9	11275.3	11739.8
30°	10302.2	10351.6	10272.8	10033.9	10131.4	10567.8	11249.9	11924.0	12140.3	12427.3	13096.0
32.5°	11705.1	11701.1	11528.9	11108.4	10881.5	11204.6	11964.1	12867.8	13276.2	13879.6	14660.4
35°	13105.4	13029.3	12889.1	12487.3	12038.8	11944.0	12718.3	13868.9	14708.5	15650.9	16446.4
37.5°	14384.1	14393.5	14294.7	13975.7	13455.1	13054.6	13559.2	15003.5	16258.2	17551.7	18151.0
40°	15546.8	15566.8	15516.1	15278.5	14919.4	14444.2	14466.9	16191.5	17854.7	19377.7	19871.6
42.5°	16389.0	16510.5	16674.7	16437.1	16322.3	15883.1	15572.1	17272.7	19333.7	21012.9	21351.9
45°	17143.2	17157.9	17298.0	17411.5	17566.3	17406.2	16924.3	18490.1	21030.2	22649.4	22858.9
47.5°	17694.5	17650.4	17813.3	18212.4	18749.0	18790.4	18451.3	19918.3	22554.6	24159.1	24204.5
50°	17984.2	17996.2	18372.6	18965.2	19884.9	20170.6	20118.5	21687.0	24312.6	25720.8	25539.3
52.5°	18201.7	18297.8	18830.4	19636.7	20906.1	21510.8	21692.3	23830.7	26073.2	27376.0	27057.0
55°	18313.9	18466.0	19054.7	20106.5	21689.6	22776.2	23190.0	26285.5	28560.0	29455.7	28487.9
57.5°	17737.2	17892.0	18805.1	20209.3	22247.6	23717.2	24917.3	29134.0	31292.4	31695.5	30351.3
60°	16419.7	16575.9	17918.7	19947.7	22347.7	24584.9	26842.1	32523.1	34375.8	34298.4	31865.0
62.5°	15118.3	15165.0	16519.8	19020.0	21947.3	24964.0	28971.1	36247.3	37777.0	37375.2	33554.9
65°	13360.3	13464.4	14835.3	17262.0	20824.7	24733.0	30682.4	39987.5	42153.9	40983.3	35282.2
67.5°	11283.3	11450.2	12663.5	15118.3	18773.0	23663.8	31849.0	43096.3	44672.7	43715.6	36650.4
70°	8733.8	8831.2	9781.6	12205.7	16028.6	21331.9	32427.0	44226.9	45213.3	44379.1	37145.6
72.5°	6215.0	6138.9	6754.2	8429.4	12098.9	17876.0	31748.9	43982.6	44456.5	43443.3	35946.9
75°	4248.8	4073.9	4574.5	5459.5	7114.6	12716.9	28351.8	41830.9	42025.8	40700.3	33014.3
77.5°	2234.5	2261.2	2542.8	3401.1	4607.8	6042.8	20326.8	36818.6	37227.0	36406.1	27913.9
80°	483.2	525.9	1740.6	2131.7	2733.7	3578.7	9058.1	27724.4	29176.7	28640.1	20294.7
82.5°	320.4	339.0	1106.6	1410.9	1589.8	1811.4	3267.7	15861.8	18627.5	17910.7	10865.5
85°	190.9	202.9	419.1	552.6	820.9	795.6	1204.0	6488.6	8719.1	8432.1	3916.4
87.5°	80.1	85.4	149.5	238.9	329.7	403.1	415.1	1725.9	2679.0	2721.7	850.3
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°	6670.1	6670.1	6670.1	6670.1	6670.1	6670.1	6670.1	6670.1	6670.1	6670.1	6670.1
2.5°	6691.5	6678.1	6662.1	6610.1	6566.0	6546.0	6524.6	6491.3	6495.3	6508.6	6481.9
5°	6775.6	6746.2	6694.2	6612.7	6528.6	6471.3	6429.9	6375.1	6352.5	6349.8	6328.4
7.5°	6931.8	6894.4	6801.0	6672.8	6555.3	6465.9	6391.2	6309.7	6259.0	6245.7	6220.3
10°	7168.0	7104.0	6969.1	6798.3	6646.1	6518.0	6399.2	6269.7	6184.3	6144.2	6114.9
12.5°	7441.7	7372.3	7189.4	6991.8	6799.6	6614.1	6439.2	6248.3	6117.5	6048.1	6005.4
15°	7816.8	7711.3	7523.1	7298.8	7058.6	6803.6	6555.3	6271.0	6044.1	5910.6	5863.9
17.5°	8278.6	8158.5	7978.3	7723.3	7421.6	7062.6	6671.5	6245.7	5878.6	5679.7	5638.3
20°	8831.2	8788.5	8597.6	8267.9	7804.7	7300.2	6743.6	6173.6	5667.7	5375.4	5308.6
22.5°	9574.7	9578.7	9341.1	8767.2	8161.1	7445.7	6754.2	6014.7	5352.7	5015.0	4964.2
25°	10554.5	10551.8	9983.2	9179.6	8358.7	7493.7	6659.5	5721.1	4985.6	4607.8	4542.4
27.5°	11690.4	11494.2	10625.2	9494.6	8400.1	7400.3	6389.8	5283.3	4559.8	4196.7	4138.0
30°	12950.5	12579.4	11264.6	9725.6	8342.7	7137.3	5898.6	4804.0	4222.1	3872.3	3805.6
32.5°	14422.8	13788.8	11922.7	9853.7	8185.2	6768.9	5308.6	4551.8	4019.2	3628.1	3544.0
35°	15979.2	15229.1	12652.8	9912.4	7848.8	6145.6	4857.4	4372.9	3857.7	3419.8	3343.7
37.5°	17585.0	16678.7	13503.1	9933.8	7420.3	5364.7	4586.5	4174.0	3653.4	3265.0	3211.6
40°	19158.8	18028.2	14406.8	9927.1	6788.9	4790.7	4350.2	3913.7	3479.9	3132.8	3071.4
42.5°	20588.4	19280.3	15319.8	9837.7	6044.1	4495.7	4124.6	3741.5	3329.1	2938.0	2860.5
45°	21921.9	20421.5	16055.3	9554.7	5203.2	4218.1	3871.0	3534.6	3138.2	2737.7	2653.6
47.5°	23097.9	21522.8	16551.9	9058.1	4535.7	3939.1	3565.3	3286.3	2943.3	2561.5	2494.8
50°	24312.6	22554.6	16940.3	8231.9	4028.5	3609.4	3258.3	3008.7	2735.1	2426.7	2366.7
52.5°	25551.3	23777.3	17454.2	6942.4	3542.6	3274.3	2917.9	2647.0	2465.4	2262.5	2205.1
55°	26923.5	25034.7	17865.4	5301.9	3094.1	2962.0	2578.9	2291.9	2137.1	2019.6	2003.6
57.5°	28094.1	26089.2	17471.6	3668.1	2776.4	2648.3	2265.2	1970.2	1808.7	1783.3	1823.4
60°	29402.3	26938.2	16017.9	2767.1	2542.8	2271.9	1951.5	1713.9	1627.2	1553.7	1555.1
62.5°	30920.0	27405.4	13488.4	2345.3	2289.2	1999.6	1754.0	1587.1	1504.4	1384.2	1350.8
65°	31782.3	27225.2	10557.2	2103.7	2058.3	1907.5	1721.9	1547.1	1420.3	1256.1	1228.0
67.5°	32073.3	25810.3	7812.8	1930.2	1934.2	1915.5	1752.6	1533.7	1381.5	1193.3	1170.6
70°	31082.8	23044.5	4992.3	1832.7	1882.1	1935.5	1820.7	1583.1	1381.5	1111.9	1090.6
72.5°	28505.3	19591.3	2598.9	1689.9	1848.7	1926.2	1903.5	1684.6	1332.2	1007.8	986.4
75°	24356.6	15366.6	1467.0	1544.4	1783.3	1906.1	1944.8	1677.9	1225.4	857.0	827.6
77.5°	19399.1	9608.1	1176.0	1384.2	1661.9	1766.0	1890.1	1716.6	1250.7	834.3	800.9
80°	11099.1	3720.2	955.7	1165.3	1398.9	1621.8	1810.0	1651.2	1161.3	767.5	735.5
82.5°	4375.6	1141.3	758.2	926.4	1139.9	1312.1	1600.5	1507.0	1057.2	564.6	527.3
85°	1146.6	472.5	519.2	636.7	798.2	955.7	1312.1	1221.4	858.3	437.8	412.5
87.5°	164.2	130.8	161.5	246.9	453.8	678.1	871.6	743.5	571.3	333.7	297.7
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)