

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: P622500

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

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622500  
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  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

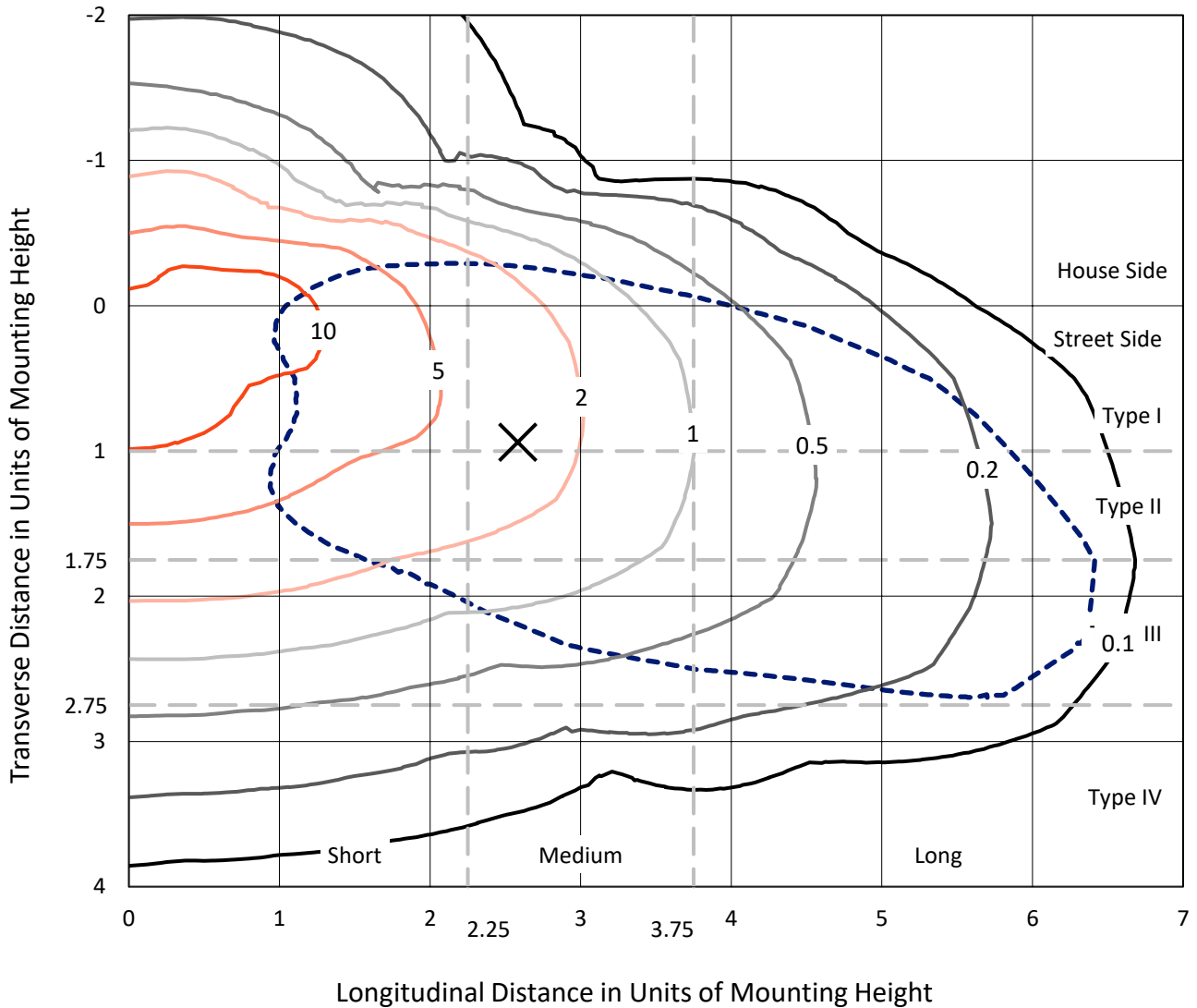
Lumens per Lamp: N/A  
Luminaire Lumens: 68193 lumens  
Efficiency: N/A  
Efficacy: 140.1 lumens/watt  
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 486.6  
Input Voltage (V): NR  
Input Current (Ain): 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

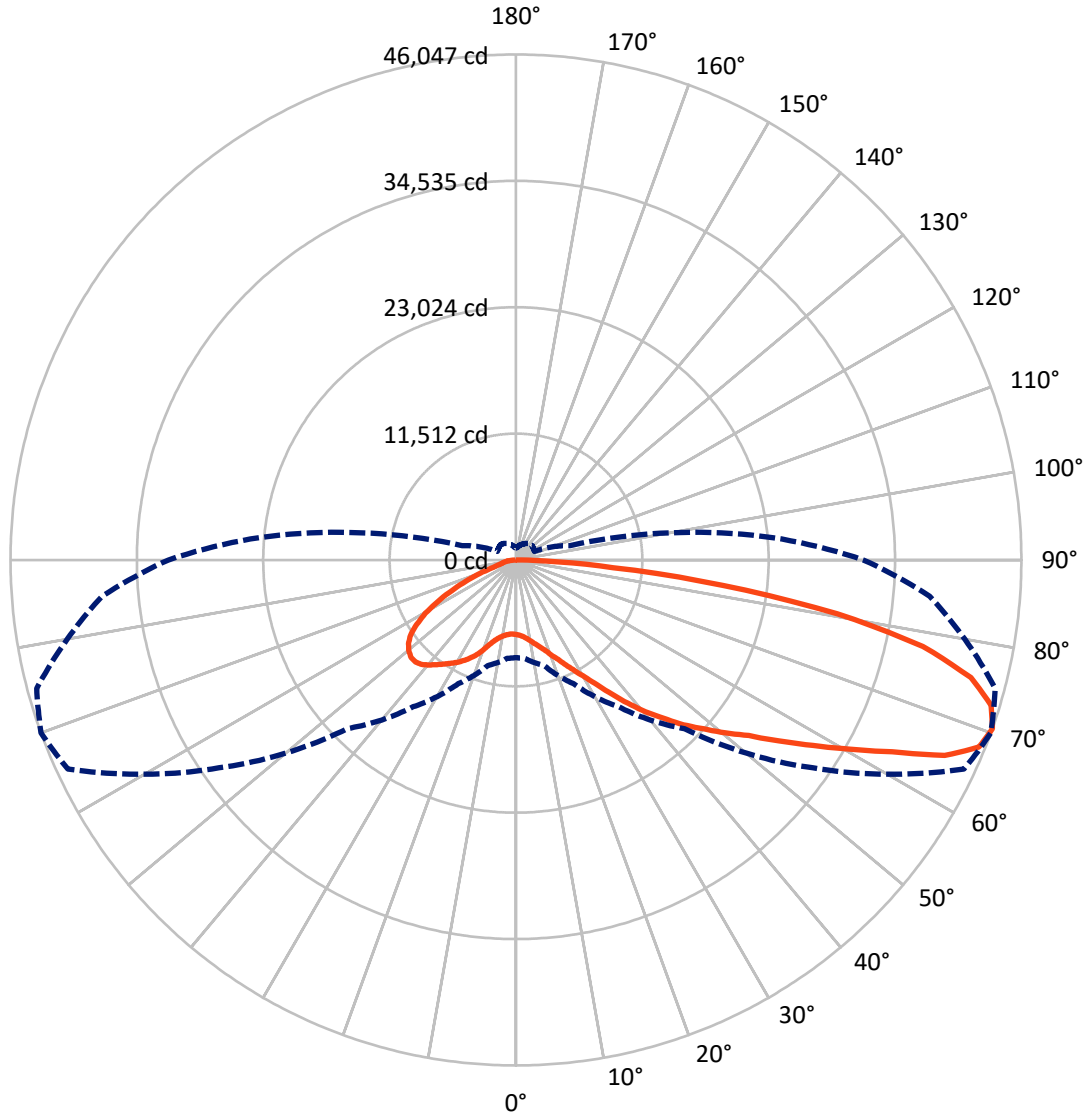
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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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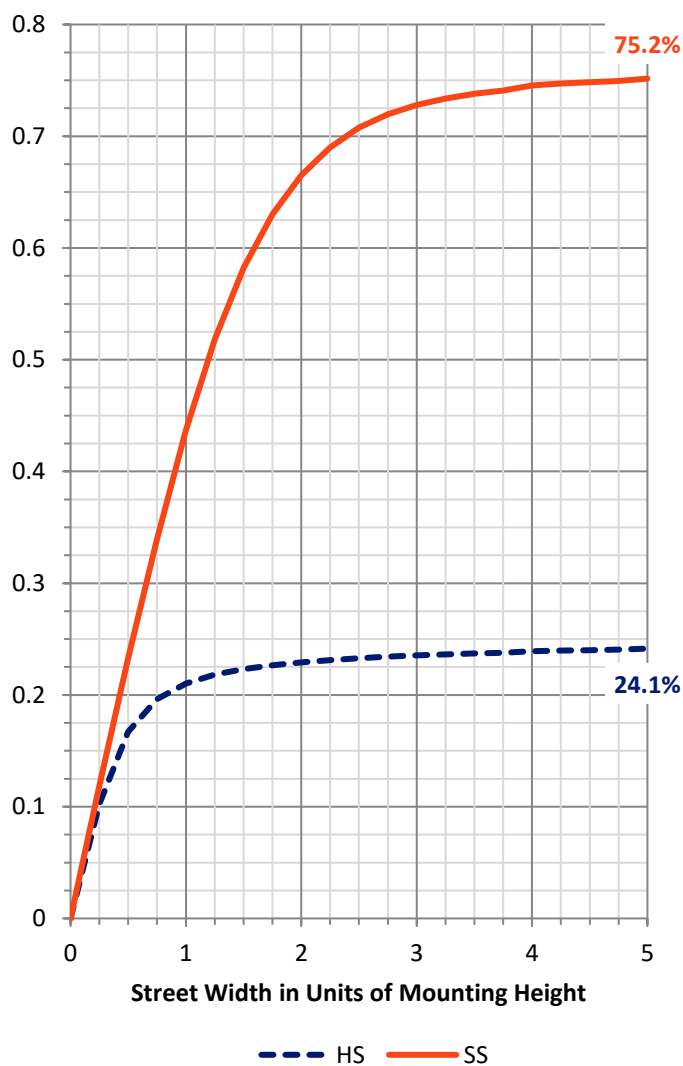
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16786.2	0.0	16786.2
	% Fixture	24.6	0.0	24.6
<b>Street Side</b>	Lumens	51406.8	0.0	51406.8
	% Fixture	75.4	0.0	75.4
<b>Total</b>	Lumens	68193.0	0.0	68193.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	665.3	1.0
10°-20°	2152.4	3.2
20°-30°	4065.2	6.0
30°-40°	6791.3	10.0
40°-50°	10371.7	15.2
50°-60°	13819.8	20.3
60°-70°	15947.5	23.4
70°-80°	11905.5	17.5
80°-90°	2474.4	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°	68193.0	100.0
0°-180°	68193.0	100.0

**Coefficient of Utilization**



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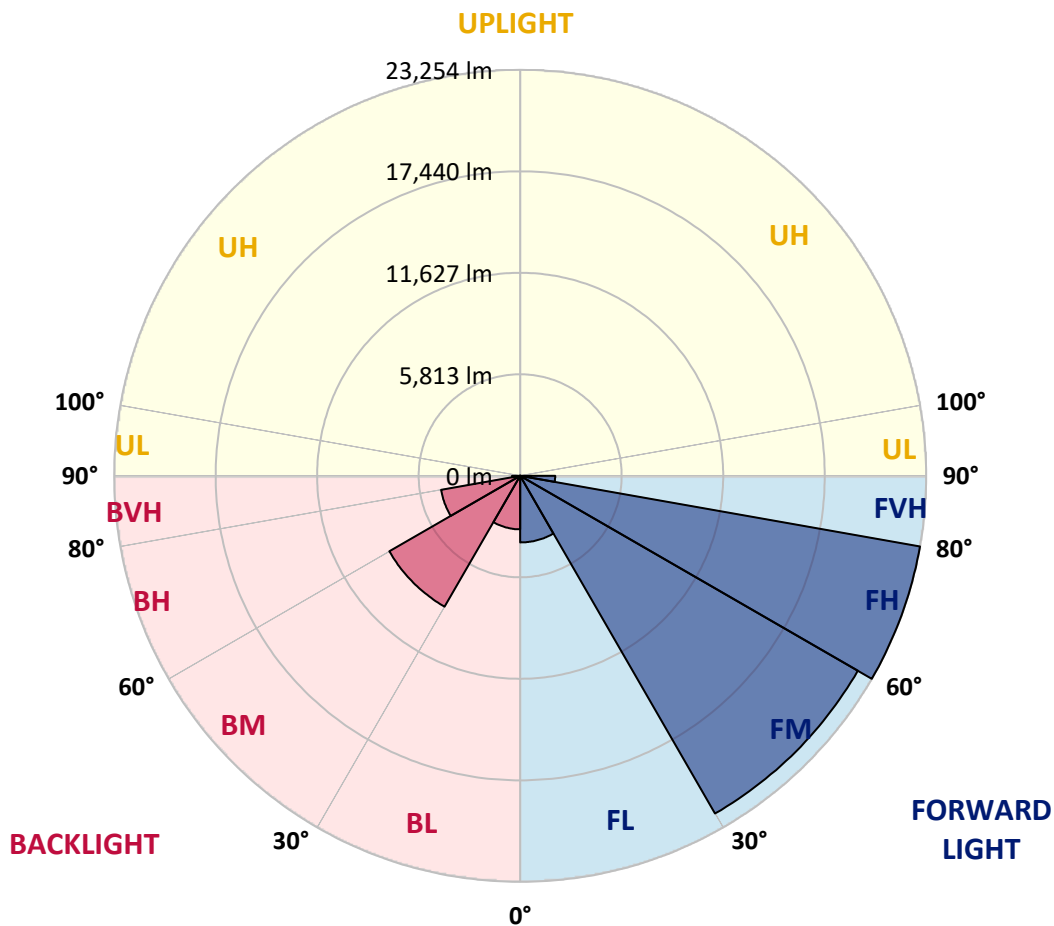
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3817.4	5.6			
FM (30°-60°)	22329.5	32.7			
FH (60°-80°)	23253.9	34.1			G5
FVH (80°-90°)	2006.1	2.9			G5
BL (0°-30°)	3065.5	4.5	B4/5000		
BM (30°-60°)	8653.3	12.7	B5		
BH (60°-80°)	4599.0	6.7	B4/5000		G4/5000
BVH (80°-90°)	468.3	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	6793.2	6793.2	6793.2	6793.2	6793.2	6793.2	6793.2	6793.2	6793.2	6793.2	6793.2
2.5°	6987.6	7001.2	7032.4	6983.5	6986.2	6929.1	6922.3	6906.0	6863.9	6853.0	6843.5
5°	7240.4	7271.7	7274.4	7240.4	7224.1	7131.7	7118.1	7082.7	7016.1	6986.2	6952.2
7.5°	7444.3	7472.9	7504.2	7478.3	7468.8	7390.0	7370.9	7304.3	7228.2	7184.7	7122.2
10°	7595.2	7641.5	7667.3	7675.4	7710.8	7649.6	7641.5	7592.5	7519.1	7445.7	7381.8
12.5°	7712.2	7758.4	7803.2	7845.4	7926.9	7929.7	7946.0	7922.9	7857.6	7777.4	7678.2
15°	7808.7	7848.1	7933.7	8023.5	8149.9	8202.9	8298.1	8289.9	8236.9	8149.9	8043.9
17.5°	7978.6	8034.3	8109.1	8220.6	8376.9	8484.3	8681.4	8742.6	8669.2	8640.7	8511.5
20°	8269.5	8296.7	8367.4	8461.2	8636.6	8847.3	9123.3	9285.0	9247.0	9219.8	9077.0
22.5°	8613.5	8640.7	8659.7	8749.4	8954.7	9267.4	9648.0	9881.8	9837.0	9847.8	9756.8
25°	8991.4	9029.5	9013.1	9092.0	9336.7	9671.1	10180.9	10549.3	10606.4	10640.4	10712.5
27.5°	9524.3	9574.6	9536.5	9561.0	9767.6	10186.4	10780.4	11292.9	11424.8	11483.3	11956.4
30°	10492.2	10542.5	10462.3	10219.0	10318.2	10762.8	11457.4	12144.0	12364.2	12656.5	13337.6
32.5°	11921.0	11916.9	11741.6	11313.3	11082.2	11411.2	12184.7	13105.1	13521.1	14135.6	14930.8
35°	13347.1	13269.6	13126.8	12717.6	12260.9	12164.4	12952.8	14124.7	14979.8	15939.5	16749.8
37.5°	14649.4	14658.9	14558.3	14233.4	13703.2	13295.4	13809.3	15280.2	16558.1	17875.4	18485.8
40°	15833.5	15853.9	15802.2	15560.3	15194.6	14710.6	14733.7	16490.1	18184.0	19735.1	20238.1
42.5°	16691.3	16815.0	16982.2	16740.3	16623.3	16176.1	15859.3	17591.3	19690.3	21400.4	21745.7
45°	17459.4	17474.4	17617.1	17732.7	17890.3	17727.2	17236.5	18831.1	21418.1	23067.1	23280.6
47.5°	18020.9	17976.0	18141.8	18548.3	19094.8	19137.0	18791.7	20285.7	22970.6	24604.7	24650.9
50°	18315.9	18328.1	18711.5	19315.1	20251.7	20542.6	20489.6	22087.0	24761.0	26195.2	26010.3
52.5°	18537.4	18635.3	19177.7	19998.9	21291.7	21907.5	22092.4	24270.2	26554.1	27880.9	27556.0
55°	18651.6	18806.6	19406.1	20477.4	22089.7	23196.3	23617.7	26770.3	29086.8	29999.0	29013.4
57.5°	18064.4	18222.1	19151.9	20582.1	22657.9	24154.7	25376.8	29671.3	31869.6	32280.1	30911.2
60°	16722.6	16881.6	18249.2	20315.6	22759.9	25038.3	27337.2	33123.0	35009.9	34931.0	32452.8
62.5°	15397.1	15444.7	16824.5	19370.8	22352.1	25424.4	29505.5	36915.8	38473.8	38064.6	34173.8
65°	13606.7	13712.8	15108.9	17580.4	21208.8	25189.2	31248.3	40725.0	42931.4	41739.2	35933.0
67.5°	11491.4	11661.4	12897.1	15397.1	19119.3	24100.3	32436.5	43891.2	45496.7	44522.0	37326.4
70°	8894.9	8994.1	9962.0	12430.8	16324.3	21725.4	33025.1	45042.6	46047.3	45197.6	37830.7
72.5°	6329.6	6252.1	6878.8	8584.9	12322.0	18205.7	32334.5	44793.8	45276.5	44244.6	36610.0
75°	4327.1	4149.0	4658.8	5560.1	7245.9	12951.5	28874.7	42602.4	42800.9	41451.0	33623.3
77.5°	2275.7	2302.9	2589.8	3463.9	4692.8	6154.2	20701.7	37497.7	37913.7	37077.6	28428.8
80°	492.1	535.6	1772.7	2171.0	2784.2	3644.7	9225.2	28235.8	29714.8	29168.3	20669.1
82.5°	326.3	345.3	1127.0	1436.9	1619.1	1844.8	3327.9	16154.3	18971.1	18241.1	11065.9
85°	194.4	206.6	426.9	562.8	836.1	810.2	1226.2	6608.3	8879.9	8587.6	3988.6
87.5°	81.6	87.0	152.3	243.3	335.8	410.6	422.8	1757.8	2728.4	2771.9	866.0
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°	6793.2	6793.2	6793.2	6793.2	6793.2	6793.2	6793.2	6793.2	6793.2	6793.2	6793.2
2.5°	6814.9	6801.3	6785.0	6732.0	6687.1	6666.7	6645.0	6611.0	6615.1	6628.7	6601.5
5°	6900.6	6870.7	6817.6	6734.7	6649.1	6590.6	6548.5	6492.7	6469.6	6466.9	6445.1
7.5°	7059.6	7021.6	6926.4	6795.9	6676.3	6585.2	6509.0	6426.1	6374.5	6360.9	6335.0
10°	7300.2	7235.0	7097.7	6923.7	6768.7	6638.2	6517.2	6385.3	6298.3	6257.5	6227.6
12.5°	7578.9	7508.2	7322.0	7120.8	6925.0	6736.1	6558.0	6363.6	6230.4	6159.7	6116.2
15°	7960.9	7853.5	7661.9	7433.5	7188.8	6929.1	6676.3	6386.7	6155.6	6019.6	5972.1
17.5°	8431.3	8309.0	8125.4	7865.8	7558.5	7192.8	6794.5	6360.9	5987.0	5784.5	5742.3
20°	8994.1	8950.6	8756.2	8420.4	7948.7	7434.8	6867.9	6287.5	5772.2	5474.5	5406.5
22.5°	9751.3	9755.4	9513.4	8928.9	8311.7	7583.0	6878.8	6125.7	5451.4	5107.5	5055.8
25°	10749.2	10746.4	10167.3	9348.9	8512.9	7631.9	6782.3	5826.6	5077.5	4692.8	4626.2
27.5°	11906.1	11706.2	10821.2	9669.8	8555.0	7536.8	6507.7	5380.7	4643.9	4274.1	4214.3
30°	13189.4	12811.4	11472.4	9904.9	8496.6	7269.0	6007.4	4892.7	4299.9	3943.8	3875.8
32.5°	14688.8	14043.1	12142.6	10035.5	8336.1	6893.8	5406.5	4635.7	4093.3	3695.0	3609.3
35°	16274.0	15510.0	12886.2	10095.3	7993.6	6258.9	4947.0	4453.6	3928.8	3482.9	3405.4
37.5°	17909.4	16986.3	13752.2	10117.0	7557.2	5463.6	4671.1	4251.0	3720.8	3325.2	3270.8
40°	19512.2	18360.7	14672.5	10110.2	6914.2	4879.1	4430.4	3985.9	3544.1	3190.6	3128.1
42.5°	20968.1	19635.9	15602.4	10019.1	6155.6	4578.6	4200.7	3810.5	3390.5	2992.1	2913.3
45°	22326.2	20798.2	16351.5	9730.9	5299.1	4295.9	3942.4	3599.8	3196.1	2788.2	2702.6
47.5°	23523.9	21919.8	16857.2	9225.2	4619.4	4011.7	3631.1	3347.0	2997.6	2608.8	2540.8
50°	24761.0	22970.6	17252.8	8383.7	4102.8	3676.0	3318.4	3064.2	2785.5	2471.5	2410.3
52.5°	26022.6	24215.9	17776.2	7070.5	3608.0	3334.7	2971.8	2695.8	2510.9	2304.3	2245.8
55°	27420.1	25496.5	18194.9	5399.7	3151.2	3016.6	2626.5	2334.2	2176.5	2056.8	2040.5
57.5°	28612.3	26570.4	17793.8	3735.8	2827.7	2697.1	2307.0	2006.5	1842.1	1816.2	1857.0
60°	29944.6	27435.0	16313.4	2818.1	2589.8	2313.8	1987.5	1745.5	1657.2	1582.4	1583.8
62.5°	31490.3	27910.8	13737.2	2388.6	2331.5	2036.5	1786.3	1616.4	1532.1	1409.7	1375.8
65°	32368.5	27727.3	10751.9	2142.5	2096.3	1942.7	1753.7	1575.6	1446.5	1279.2	1250.7
67.5°	32664.8	26286.3	7956.9	1965.8	1969.8	1950.8	1785.0	1562.0	1407.0	1215.3	1192.2
70°	31656.1	23469.5	5084.3	1866.5	1916.8	1971.2	1854.3	1612.3	1407.0	1132.4	1110.7
72.5°	29031.0	19952.6	2646.8	1721.1	1882.8	1961.7	1938.6	1715.6	1356.7	1026.4	1004.6
75°	24805.9	15650.0	1494.0	1572.9	1816.2	1941.3	1980.7	1708.8	1248.0	872.8	842.9
77.5°	19756.9	9785.3	1197.7	1409.7	1692.5	1798.6	1925.0	1748.3	1273.8	849.7	815.7
80°	11303.8	3788.8	973.4	1186.8	1424.7	1651.7	1843.4	1681.6	1182.7	781.7	749.1
82.5°	4456.3	1162.3	772.2	943.5	1161.0	1336.3	1630.0	1534.8	1076.7	575.0	537.0
85°	1167.8	481.2	528.8	648.5	813.0	973.4	1336.3	1243.9	874.1	445.9	420.1
87.5°	167.2	133.2	164.5	251.5	462.2	690.6	887.7	757.2	581.8	339.9	303.2
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)