

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: P622416

Luminaire Tested: **PRV-M-C200-D-U-T3-BZ**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622416  
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-C200-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: 50162 lumens  
Efficiency: N/A  
Efficacy: 145.0 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

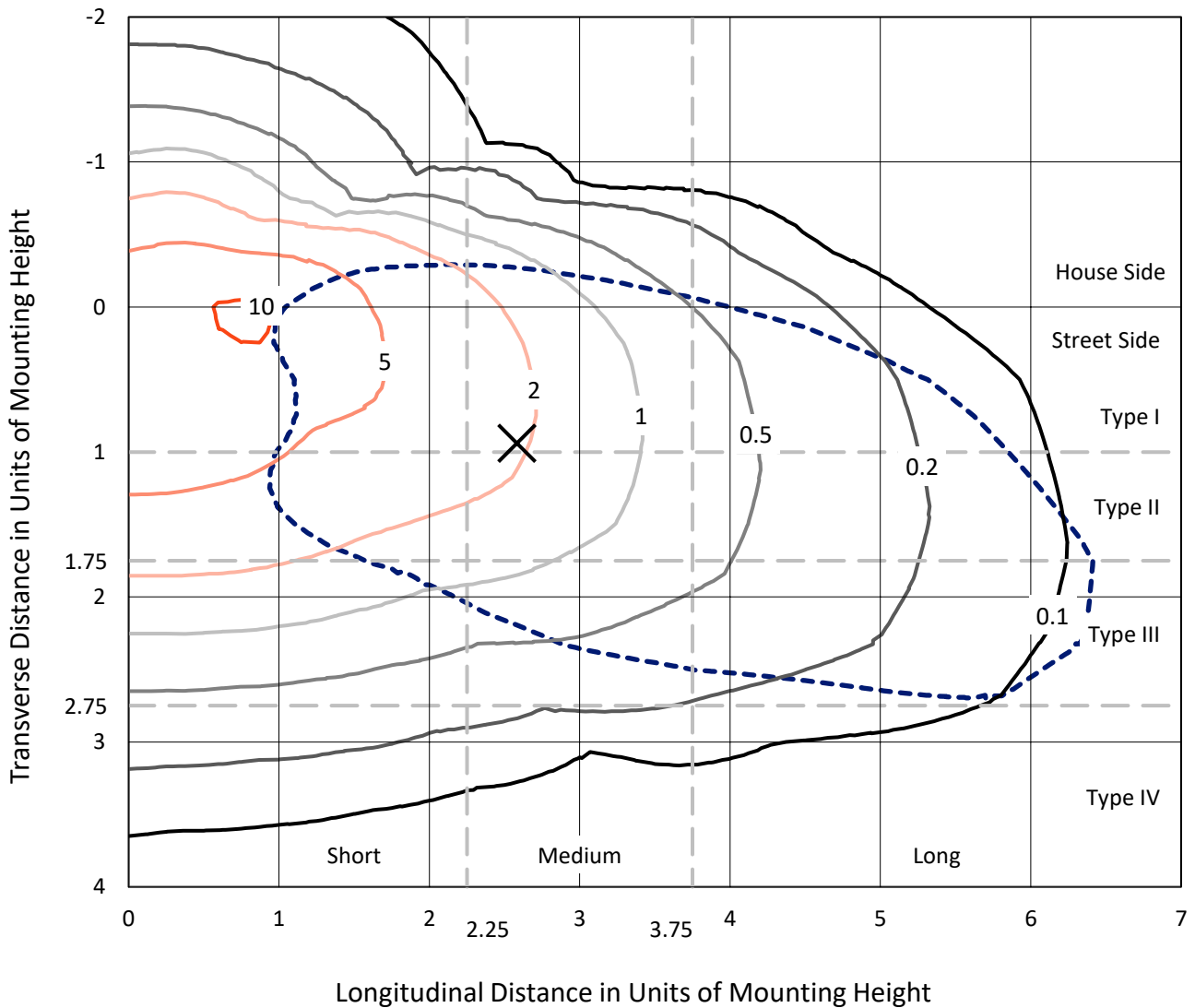
Input Watts (W): 346  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

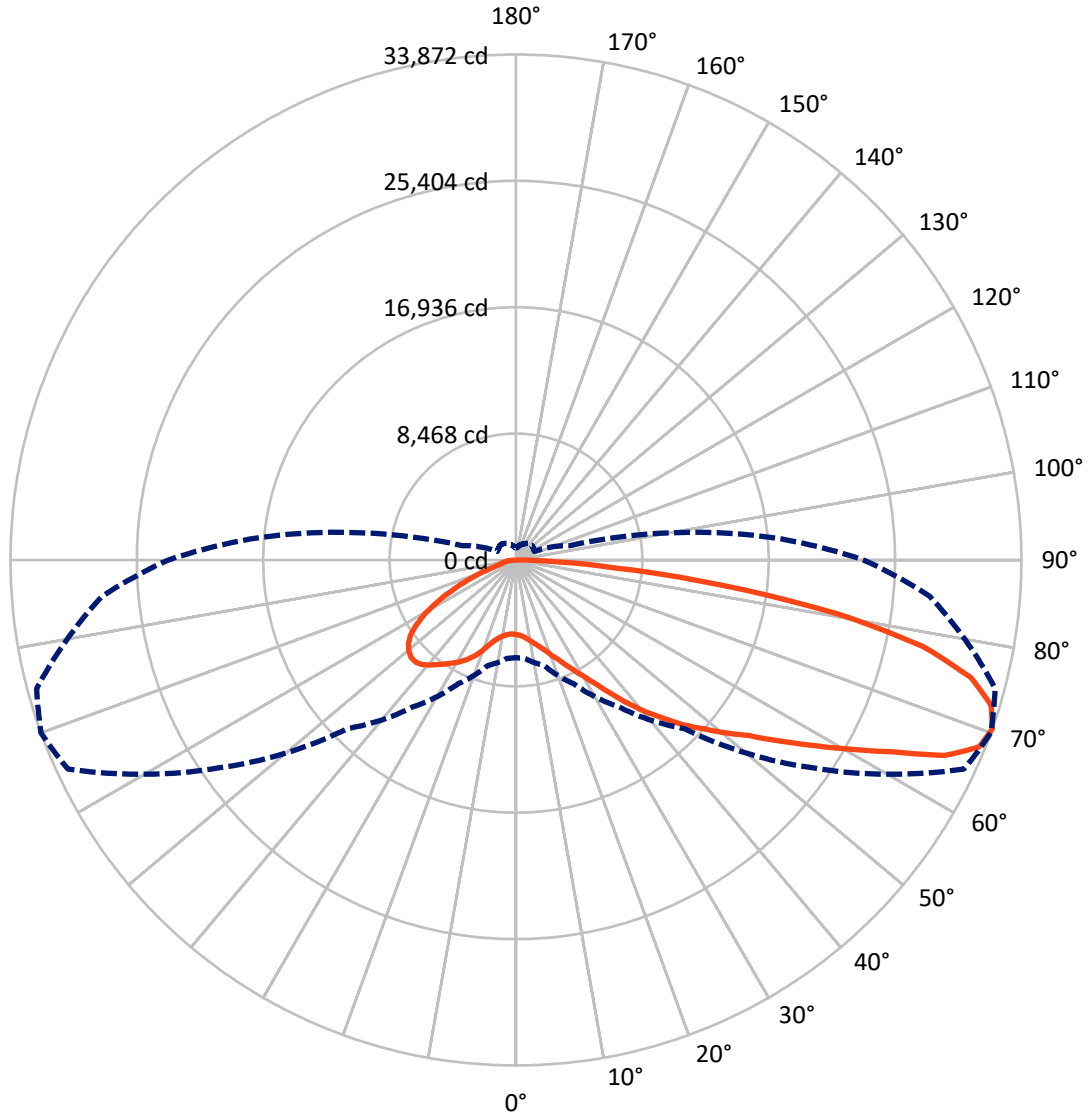
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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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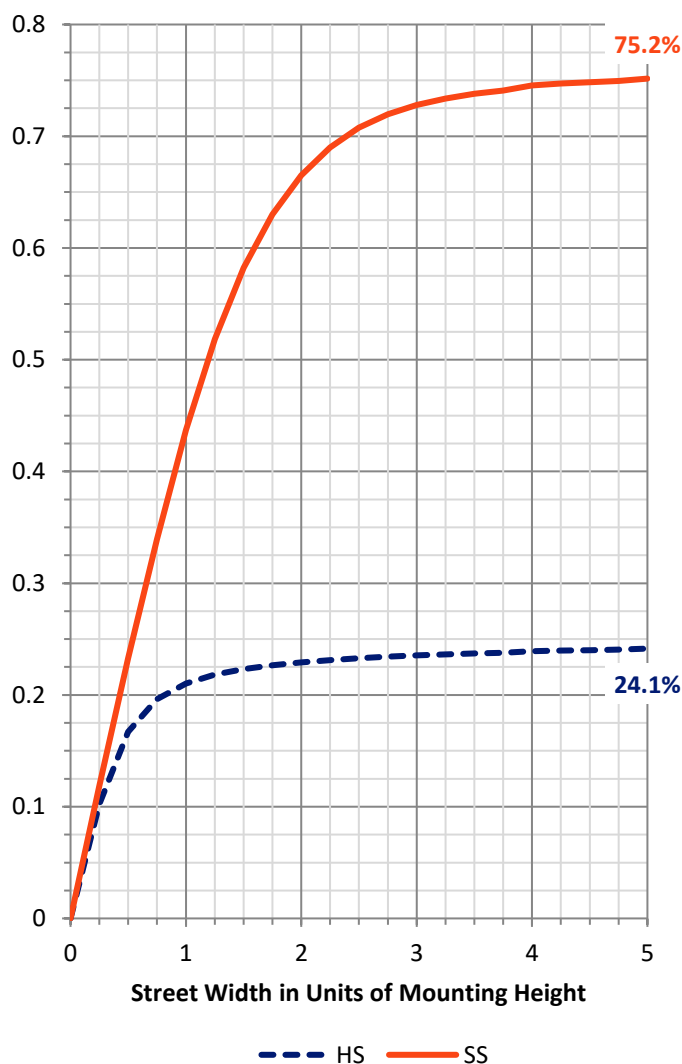
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12347.7	0.0	12347.7
	% Fixture	24.6	0.0	24.6
<b>Street Side</b>	Lumens	37814.3	0.0	37814.3
	% Fixture	75.4	0.0	75.4
<b>Total</b>	Lumens	50162.0	0.0	50162.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	489.4	1.0
10°-20°	1583.3	3.2
20°-30°	2990.3	6.0
30°-40°	4995.6	10.0
40°-50°	7629.3	15.2
50°-60°	10165.7	20.3
60°-70°	11730.8	23.4
70°-80°	8757.5	17.5
80°-90°	1820.1	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°	50162.0	100.0
0°-180°	50162.0	100.0

**Coefficient of Utilization**



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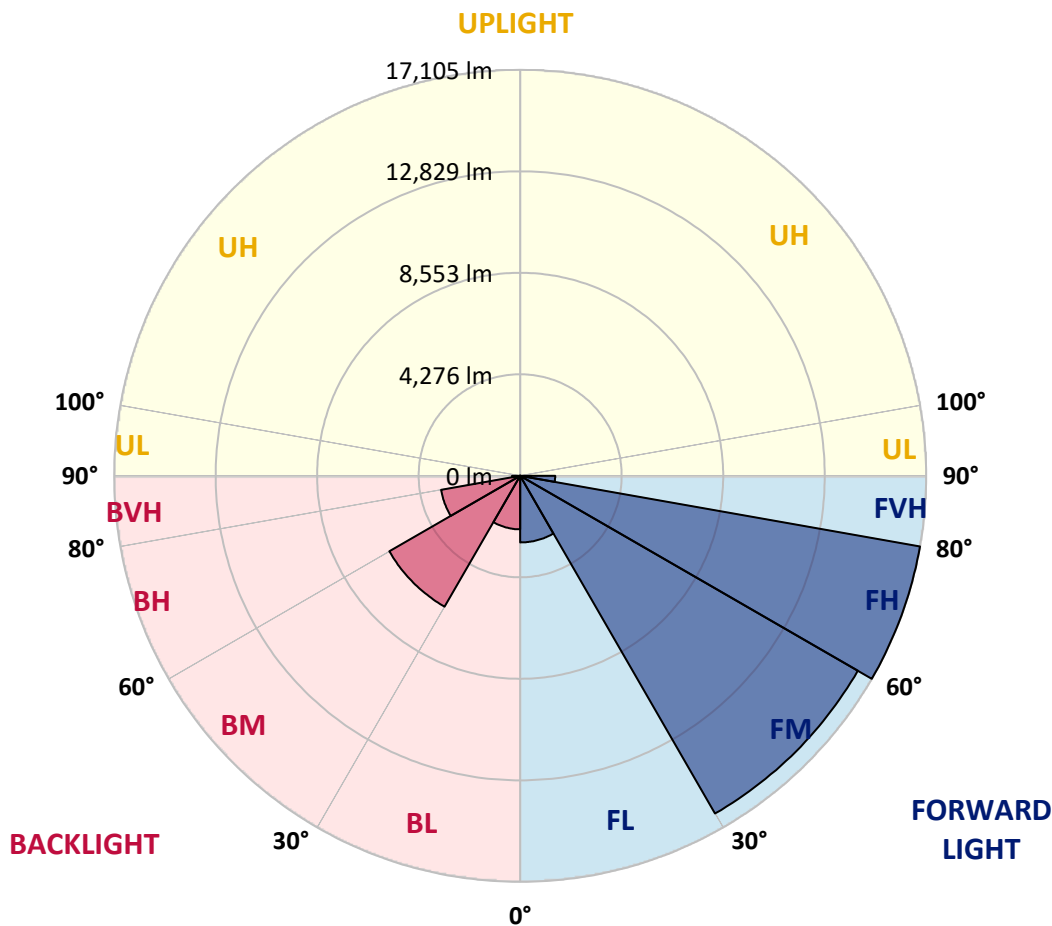
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2808.0	5.6			
FM (30°-60°)	16425.3	32.7			
FH (60°-80°)	17105.3	34.1			G5
FVH (80°-90°)	1475.6	2.9			G5
BL (0°-30°)	2255.0	4.5	B3/2500		
BM (30°-60°)	6365.3	12.7	B4/8500		
BH (60°-80°)	3383.0	6.7	B4/5000		G4/5000
BVH (80°-90°)	344.5	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°	4997.0	4997.0	4997.0	4997.0	4997.0	4997.0	4997.0	4997.0	4997.0	4997.0	4997.0
2.5°	5140.0	5150.0	5173.0	5137.0	5139.0	5097.0	5092.0	5080.0	5049.0	5041.0	5034.0
5°	5326.0	5349.0	5351.0	5326.0	5314.0	5246.0	5236.0	5210.0	5161.0	5139.0	5114.0
7.5°	5476.0	5497.0	5520.0	5501.0	5494.0	5436.0	5422.0	5373.0	5317.0	5285.0	5239.0
10°	5587.0	5621.0	5640.0	5646.0	5672.0	5627.0	5621.0	5585.0	5531.0	5477.0	5430.0
12.5°	5673.0	5707.0	5740.0	5771.0	5831.0	5833.0	5845.0	5828.0	5780.0	5721.0	5648.0
15°	5744.0	5773.0	5836.0	5902.0	5995.0	6034.0	6104.0	6098.0	6059.0	5995.0	5917.0
17.5°	5869.0	5910.0	5965.0	6047.0	6162.0	6241.0	6386.0	6431.0	6377.0	6356.0	6261.0
20°	6083.0	6103.0	6155.0	6224.0	6353.0	6508.0	6711.0	6830.0	6802.0	6782.0	6677.0
22.5°	6336.0	6356.0	6370.0	6436.0	6587.0	6817.0	7097.0	7269.0	7236.0	7244.0	7177.0
25°	6614.0	6642.0	6630.0	6688.0	6868.0	7114.0	7489.0	7760.0	7802.0	7827.0	7880.0
27.5°	7006.0	7043.0	7015.0	7033.0	7185.0	7493.0	7930.0	8307.0	8404.0	8447.0	8795.0
30°	7718.0	7755.0	7696.0	7517.0	7590.0	7917.0	8428.0	8933.0	9095.0	9310.0	9811.0
32.5°	8769.0	8766.0	8637.0	8322.0	8152.0	8394.0	8963.0	9640.0	9946.0	10398.0	10982.9
35°	9818.0	9761.0	9656.0	9355.0	9019.0	8948.0	9528.0	10390.0	11018.9	11724.9	12320.9
37.5°	10776.0	10783.0	10709.0	10470.0	10080.0	9780.0	10158.0	11239.9	12179.9	13148.9	13597.9
40°	11646.9	11661.9	11623.9	11445.9	11176.9	10820.9	10837.9	12129.9	13375.9	14516.9	14886.9
42.5°	12277.9	12368.9	12491.9	12313.9	12227.9	11898.9	11665.9	12939.9	14483.9	15741.9	15995.9
45°	12842.9	12853.9	12958.9	13043.9	13159.9	13039.9	12678.9	13851.9	15754.9	16967.9	17124.9
47.5°	13255.9	13222.9	13344.9	13643.9	14045.9	14076.9	13822.9	14921.9	16896.9	18098.9	18132.9
50°	13472.9	13481.9	13763.9	14207.9	14896.9	15110.9	15071.9	16246.9	18213.9	19268.9	19132.9
52.5°	13635.9	13707.9	14106.9	14710.9	15661.9	16114.9	16250.9	17852.9	19532.9	20508.9	20269.9
55°	13719.9	13833.9	14274.9	15062.9	16248.9	17062.9	17372.9	19691.9	21395.9	22066.9	21341.9
57.5°	13287.9	13403.9	14087.9	15139.9	16666.9	17767.9	18666.9	21825.9	23442.9	23744.9	22737.9
60°	12300.9	12417.9	13423.9	14943.9	16741.9	18417.9	20108.9	24364.9	25752.9	25694.9	23871.9
62.5°	11325.9	11360.9	12375.9	14248.9	16441.9	18701.9	21703.9	27154.9	28300.9	27999.9	25137.9
65°	10009.0	10087.0	11113.9	12931.9	15600.9	18528.9	22985.9	29956.9	31579.9	30702.9	26431.9
67.5°	8453.0	8578.0	9487.0	11325.9	14063.9	17727.9	23859.9	32285.9	33466.8	32749.8	27456.9
70°	6543.0	6616.0	7328.0	9144.0	12007.9	15980.9	24292.9	33132.8	33871.8	33246.8	27827.9
72.5°	4656.0	4599.0	5060.0	6315.0	9064.0	13391.9	23784.9	32949.8	33304.8	32545.8	26929.9
75°	3183.0	3052.0	3427.0	4090.0	5330.0	9527.0	21239.9	31337.9	31483.9	30490.9	24732.9
77.5°	1674.0	1694.0	1905.0	2548.0	3452.0	4527.0	15227.9	27582.9	27888.9	27273.9	20911.9
80°	362.0	394.0	1304.0	1597.0	2048.0	2681.0	6786.0	20769.9	21857.9	21455.9	15203.9
82.5°	240.0	254.0	829.0	1057.0	1191.0	1357.0	2448.0	11882.9	13954.9	13417.9	8140.0
85°	143.0	152.0	314.0	414.0	615.0	596.0	902.0	4861.0	6532.0	6317.0	2934.0
87.5°	60.0	64.0	112.0	179.0	247.0	302.0	311.0	1293.0	2007.0	2039.0	637.0
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°	4997.0	4997.0	4997.0	4997.0	4997.0	4997.0	4997.0	4997.0	4997.0	4997.0	4997.0
2.5°	5013.0	5003.0	4991.0	4952.0	4919.0	4904.0	4888.0	4863.0	4866.0	4876.0	4856.0
5°	5076.0	5054.0	5015.0	4954.0	4891.0	4848.0	4817.0	4776.0	4759.0	4757.0	4741.0
7.5°	5193.0	5165.0	5095.0	4999.0	4911.0	4844.0	4788.0	4727.0	4689.0	4679.0	4660.0
10°	5370.0	5322.0	5221.0	5093.0	4979.0	4883.0	4794.0	4697.0	4633.0	4603.0	4581.0
12.5°	5575.0	5523.0	5386.0	5238.0	5094.0	4955.0	4824.0	4681.0	4583.0	4531.0	4499.0
15°	5856.0	5777.0	5636.0	5468.0	5288.0	5097.0	4911.0	4698.0	4528.0	4428.0	4393.0
17.5°	6202.0	6112.0	5977.0	5786.0	5560.0	5291.0	4998.0	4679.0	4404.0	4255.0	4224.0
20°	6616.0	6584.0	6441.0	6194.0	5847.0	5469.0	5052.0	4625.0	4246.0	4027.0	3977.0
22.5°	7173.0	7176.0	6998.0	6568.0	6114.0	5578.0	5060.0	4506.0	4010.0	3757.0	3719.0
25°	7907.0	7905.0	7479.0	6877.0	6262.0	5614.0	4989.0	4286.0	3735.0	3452.0	3403.0
27.5°	8758.0	8611.0	7960.0	7113.0	6293.0	5544.0	4787.0	3958.0	3416.0	3144.0	3100.0
30°	9702.0	9424.0	8439.0	7286.0	6250.0	5347.0	4419.0	3599.0	3163.0	2901.0	2851.0
32.5°	10804.9	10330.0	8932.0	7382.0	6132.0	5071.0	3977.0	3410.0	3011.0	2718.0	2655.0
35°	11970.9	11408.9	9479.0	7426.0	5880.0	4604.0	3639.0	3276.0	2890.0	2562.0	2505.0
37.5°	13173.9	12494.9	10116.0	7442.0	5559.0	4019.0	3436.0	3127.0	2737.0	2446.0	2406.0
40°	14352.9	13505.9	10792.9	7437.0	5086.0	3589.0	3259.0	2932.0	2607.0	2347.0	2301.0
42.5°	15423.9	14443.9	11476.9	7370.0	4528.0	3368.0	3090.0	2803.0	2494.0	2201.0	2143.0
45°	16422.9	15298.9	12027.9	7158.0	3898.0	3160.0	2900.0	2648.0	2351.0	2051.0	1988.0
47.5°	17303.9	16123.9	12399.9	6786.0	3398.0	2951.0	2671.0	2462.0	2205.0	1919.0	1869.0
50°	18213.9	16896.9	12690.9	6167.0	3018.0	2704.0	2441.0	2254.0	2049.0	1818.0	1773.0
52.5°	19141.9	17812.9	13075.9	5201.0	2654.0	2453.0	2186.0	1983.0	1847.0	1695.0	1652.0
55°	20169.9	18754.9	13383.9	3972.0	2318.0	2219.0	1932.0	1717.0	1601.0	1513.0	1501.0
57.5°	21046.9	19544.9	13088.9	2748.0	2080.0	1984.0	1697.0	1476.0	1355.0	1336.0	1366.0
60°	22026.9	20180.9	11999.9	2073.0	1905.0	1702.0	1462.0	1284.0	1219.0	1164.0	1165.0
62.5°	23163.9	20530.9	10105.0	1757.0	1715.0	1498.0	1314.0	1189.0	1127.0	1037.0	1012.0
65°	23809.9	20395.9	7909.0	1576.0	1542.0	1429.0	1290.0	1159.0	1064.0	941.0	920.0
67.5°	24027.9	19335.9	5853.0	1446.0	1449.0	1435.0	1313.0	1149.0	1035.0	894.0	877.0
70°	23285.9	17263.9	3740.0	1373.0	1410.0	1450.0	1364.0	1186.0	1035.0	833.0	817.0
72.5°	21354.9	14676.9	1947.0	1266.0	1385.0	1443.0	1426.0	1262.0	998.0	755.0	739.0
75°	18246.9	11511.9	1099.0	1157.0	1336.0	1428.0	1457.0	1257.0	918.0	642.0	620.0
77.5°	14532.9	7198.0	881.0	1037.0	1245.0	1323.0	1416.0	1286.0	937.0	625.0	600.0
80°	8315.0	2787.0	716.0	873.0	1048.0	1215.0	1356.0	1237.0	870.0	575.0	551.0
82.5°	3278.0	855.0	568.0	694.0	854.0	983.0	1199.0	1129.0	792.0	423.0	395.0
85°	859.0	354.0	389.0	477.0	598.0	716.0	983.0	915.0	643.0	328.0	309.0
87.5°	123.0	98.0	121.0	185.0	340.0	508.0	653.0	557.0	428.0	250.0	223.0
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)