

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: P622458

Luminaire Tested: **PRV-M-C225-D-U-T3-BZ**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622458  
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-C225-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**

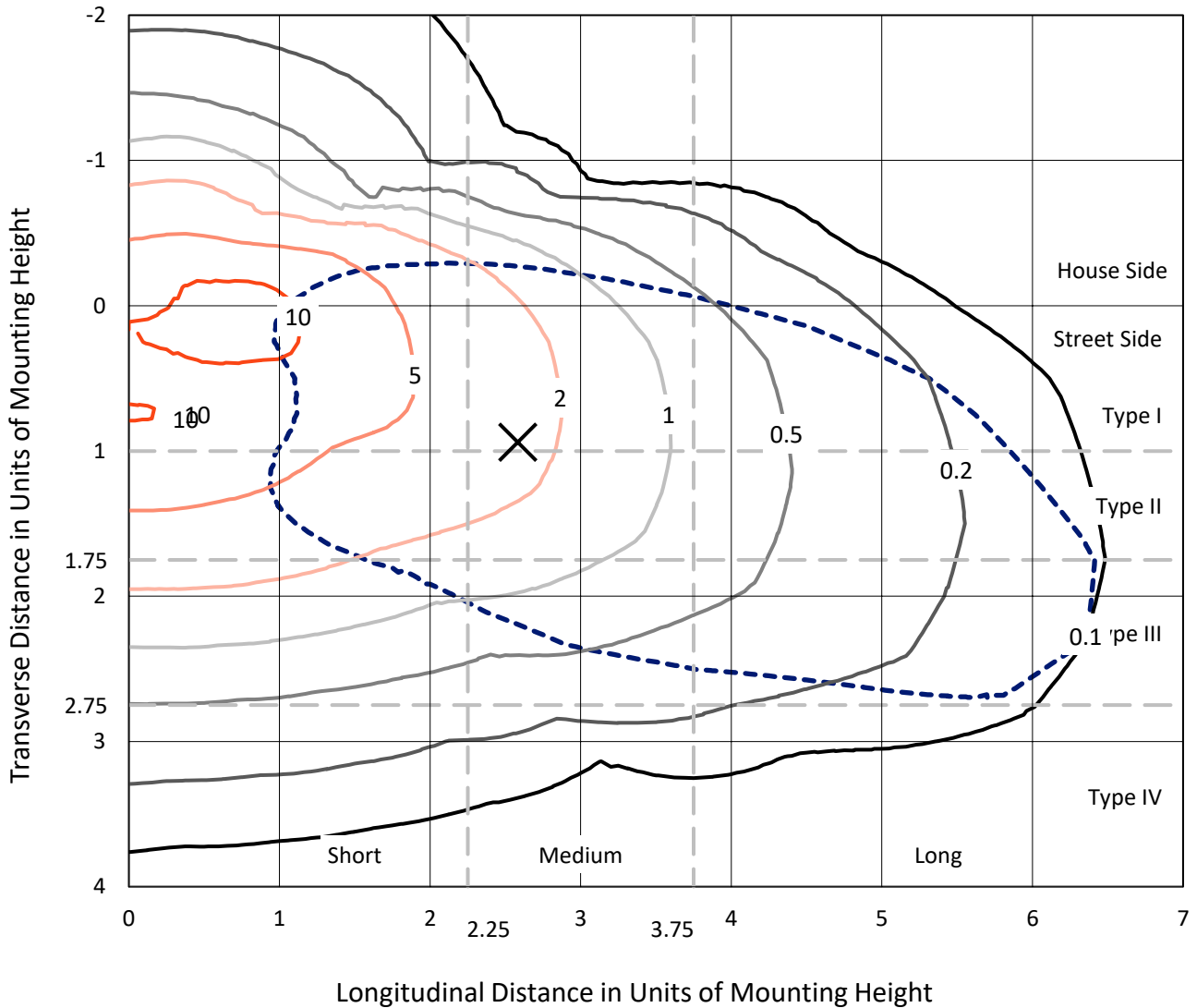
Lumens per Lamp: N/A  
Luminaire Lumens: 59223 lumens  
Efficiency: N/A  
Efficacy: 141.6 lumens/watt  
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 418.1  
Input Voltage (V): NR  
Input Current (Ain): 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

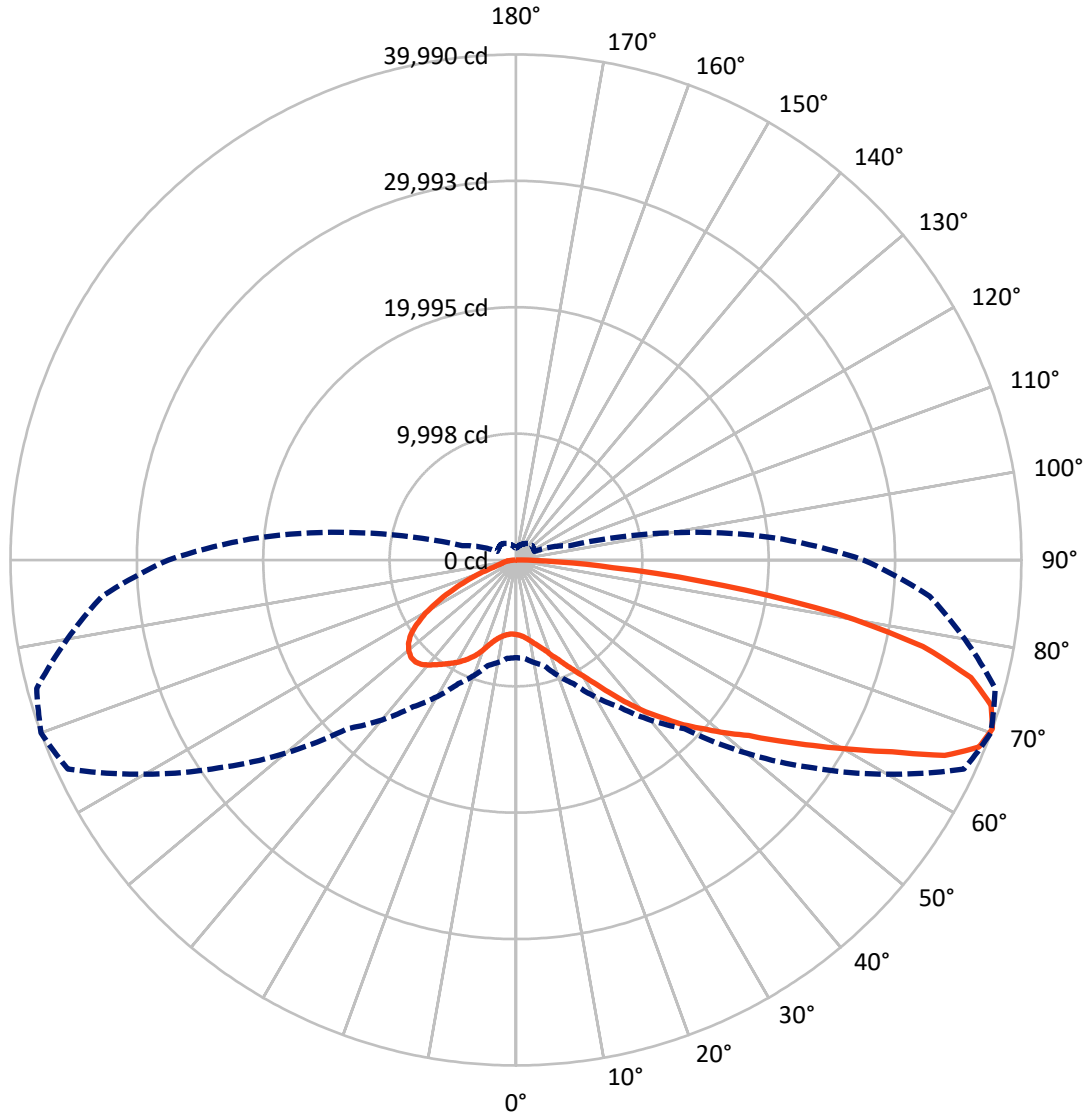
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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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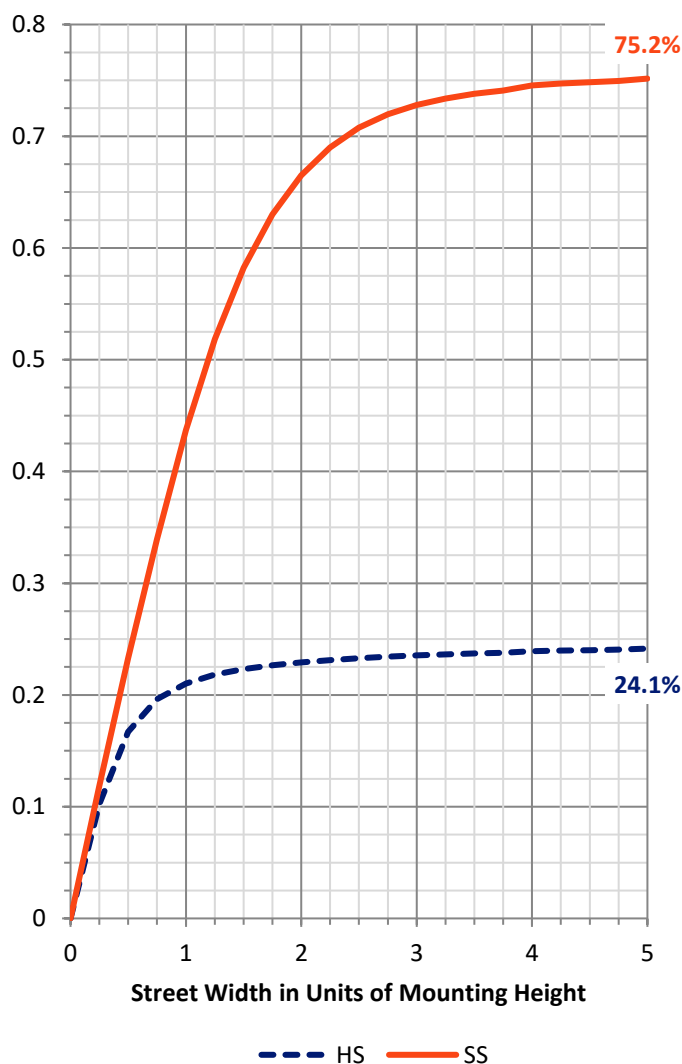
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14578.1	0.0	14578.1
	% Fixture	24.6	0.0	24.6
<b>Street Side</b>	Lumens	44644.9	0.0	44644.9
	% Fixture	75.4	0.0	75.4
<b>Total</b>	Lumens	59223.0	0.0	59223.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	577.8	1.0
10°-20°	1869.3	3.2
20°-30°	3530.4	6.0
30°-40°	5898.0	10.0
40°-50°	9007.4	15.2
50°-60°	12001.9	20.3
60°-70°	13849.8	23.4
70°-80°	10339.5	17.5
80°-90°	2148.9	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°	59223.0	100.0
0°-180°	59223.0	100.0

**Coefficient of Utilization**



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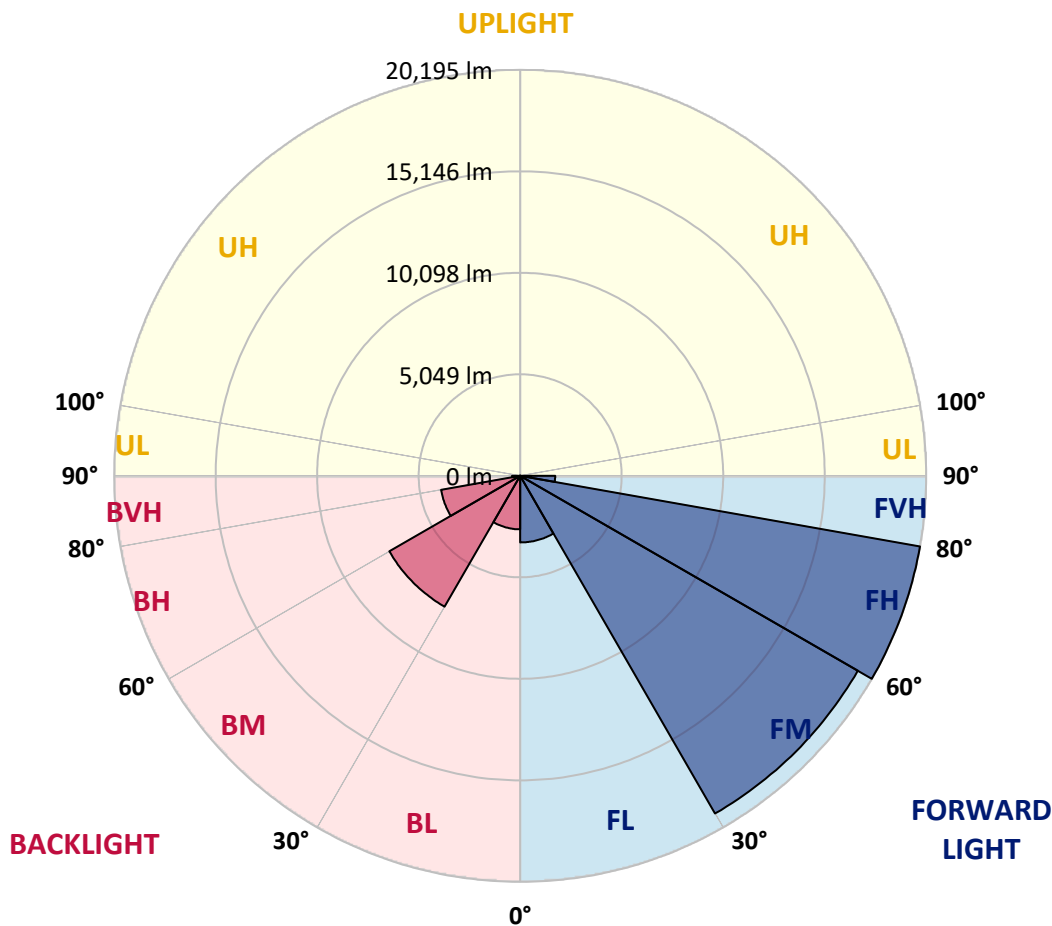
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3315.2	5.6			
FM (30°-60°)	19392.3	32.7			
FH (60°-80°)	20195.1	34.1			G5
FVH (80°-90°)	1742.2	2.9			G5
BL (0°-30°)	2662.3	4.5	B4/5000		
BM (30°-60°)	7515.0	12.7	B4/8500		
BH (60°-80°)	3994.1	6.7	B4/5000		G4/5000
BVH (80°-90°)	406.7	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°	5899.6	5899.6	5899.6	5899.6	5899.6	5899.6	5899.6	5899.6	5899.6	5899.6	5899.6
2.5°	6068.4	6080.2	6107.4	6064.9	6067.3	6017.7	6011.8	5997.6	5961.0	5951.6	5943.3
5°	6288.0	6315.2	6317.5	6288.0	6273.9	6193.6	6181.8	6151.1	6093.2	6067.3	6037.7
7.5°	6465.1	6489.9	6517.1	6494.6	6486.4	6417.9	6401.4	6343.5	6277.4	6239.6	6185.3
10°	6596.2	6636.3	6658.7	6665.8	6696.5	6643.4	6636.3	6593.8	6530.1	6466.3	6410.8
12.5°	6697.7	6737.9	6776.8	6813.4	6884.2	6886.6	6900.8	6880.7	6824.0	6754.4	6668.2
15°	6781.5	6815.8	6890.2	6968.1	7077.9	7123.9	7206.6	7199.5	7153.4	7077.9	6985.8
17.5°	6929.1	6977.5	7042.5	7139.3	7275.0	7368.3	7539.5	7592.6	7528.9	7504.1	7391.9
20°	7181.8	7205.4	7266.8	7348.2	7500.5	7683.5	7923.2	8063.7	8030.6	8007.0	7883.1
22.5°	7480.5	7504.1	7520.6	7598.5	7776.8	8048.3	8378.9	8582.0	8543.0	8552.5	8473.4
25°	7808.7	7841.7	7827.6	7896.0	8108.6	8399.0	8841.7	9161.7	9211.3	9240.8	9303.4
27.5°	8271.5	8315.2	8282.1	8303.4	8482.8	8846.5	9362.4	9807.5	9922.0	9972.8	10383.6
30°	9112.1	9155.8	9086.1	8874.8	8961.0	9347.0	9950.3	10546.6	10737.8	10991.7	11583.2
32.5°	10352.9	10349.4	10197.1	9825.2	9624.5	9910.2	10582.0	11381.3	11742.5	12276.2	12966.9
35°	11591.4	11524.1	11400.2	11044.8	10648.1	10564.3	11249.0	12266.7	13009.4	13842.9	14546.5
37.5°	12722.5	12730.7	12643.4	12361.2	11900.7	11546.6	11992.8	13270.3	14380.1	15524.1	16054.2
40°	13750.8	13768.5	13723.6	13513.5	13195.9	12775.6	12795.7	14321.0	15792.1	17139.2	17576.0
42.5°	14495.8	14603.2	14748.4	14538.3	14436.7	14048.3	13773.2	15277.3	17100.2	18585.5	18885.3
45°	15162.8	15175.8	15299.8	15400.1	15537.1	15395.4	14969.2	16354.1	18600.8	20032.9	20218.3
47.5°	15650.4	15611.5	15755.5	16108.5	16583.1	16619.7	16319.8	17617.3	19949.1	21368.2	21408.4
50°	15906.6	15917.2	16250.2	16774.4	17587.8	17840.5	17794.4	19181.7	21504.0	22749.5	22589.0
52.5°	16099.1	16184.1	16655.1	17368.2	18491.0	19025.8	19186.4	21077.8	23061.2	24213.5	23931.4
55°	16198.2	16332.8	16853.5	17783.8	19184.0	20145.1	20511.1	23249.0	25260.7	26052.9	25197.0
57.5°	15688.2	15825.2	16632.7	17874.7	19677.5	20977.4	22038.8	25768.4	27677.5	28034.0	26845.1
60°	14522.9	14661.1	15848.8	17643.3	19766.1	21744.8	23741.3	28766.0	30404.7	30336.3	28184.0
62.5°	13371.8	13413.1	14611.5	16822.8	19411.9	22080.1	25624.4	32060.0	33413.0	33057.6	29678.7
65°	11816.9	11909.0	13121.5	15267.9	18419.0	21875.9	27137.9	35368.1	37284.3	36248.9	31206.4
67.5°	9979.9	10127.4	11200.6	13371.8	16604.4	20930.2	28169.8	38117.8	39512.1	38665.6	32416.5
70°	7724.9	7811.0	8651.7	10795.7	14177.0	18867.6	28681.0	39117.8	39990.3	39252.4	32854.6
72.5°	5497.0	5429.7	5974.0	7455.7	10701.2	15811.0	28081.3	38901.7	39320.9	38424.8	31794.3
75°	3757.9	3603.3	4046.0	4828.8	6292.8	11247.9	25076.6	36998.6	37170.9	35998.6	29200.5
77.5°	1976.4	2000.0	2249.1	3008.2	4075.5	5344.7	17978.6	32565.3	32926.6	32200.5	24689.3
80°	427.4	465.2	1539.5	1885.5	2417.9	3165.3	8011.8	24521.7	25806.2	25331.6	17950.3
82.5°	283.4	299.9	978.7	1247.9	1406.1	1602.1	2890.2	14029.4	16475.7	15841.7	9610.3
85°	168.8	179.5	370.7	488.8	726.1	703.7	1064.9	5739.0	7711.9	7458.0	3464.0
87.5°	70.8	75.6	132.2	211.3	291.6	356.6	367.2	1526.6	2369.5	2407.3	752.1
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°	5899.6	5899.6	5899.6	5899.6	5899.6	5899.6	5899.6	5899.6	5899.6	5899.6	5899.6
2.5°	5918.5	5906.7	5892.5	5846.5	5807.5	5789.8	5770.9	5741.4	5744.9	5756.7	5733.1
5°	5992.9	5966.9	5920.9	5848.8	5774.5	5723.7	5687.1	5638.7	5618.6	5616.3	5597.4
7.5°	6131.0	6098.0	6015.3	5902.0	5798.1	5719.0	5652.9	5580.8	5536.0	5524.2	5501.7
10°	6340.0	6283.3	6164.1	6012.9	5878.4	5765.0	5659.9	5545.4	5469.9	5434.4	5408.5
12.5°	6582.0	6520.6	6358.9	6184.1	6014.1	5850.0	5695.4	5526.5	5410.8	5349.4	5311.7
15°	6913.8	6820.5	6654.0	6455.7	6243.2	6017.7	5798.1	5546.6	5345.9	5227.8	5186.5
17.5°	7322.3	7216.0	7056.6	6831.1	6564.3	6246.7	5900.8	5524.2	5199.5	5023.6	4987.0
20°	7811.0	7773.3	7604.4	7312.8	6903.1	6456.9	5964.5	5460.4	5013.0	4754.4	4695.4
22.5°	8468.7	8472.2	8262.0	7754.4	7218.4	6585.6	5974.0	5319.9	4734.3	4435.6	4390.8
25°	9335.2	9332.9	8829.9	8119.2	7393.1	6628.1	5890.2	5060.2	4409.7	4075.5	4017.7
27.5°	10340.0	10166.4	9397.8	8397.8	7429.7	6545.4	5651.7	4672.9	4033.0	3711.9	3660.0
30°	11454.5	11126.3	9963.3	8602.1	7378.9	6312.8	5217.2	4249.1	3734.3	3425.0	3366.0
32.5°	12756.7	12195.9	10545.4	8715.4	7239.6	5987.0	4695.4	4025.9	3554.9	3209.0	3134.6
35°	14133.3	13469.8	11191.2	8767.4	6942.1	5435.6	4296.3	3867.7	3412.0	3024.8	2957.5
37.5°	15553.6	14752.0	11943.2	8786.2	6563.1	4744.9	4056.6	3691.8	3231.4	2887.8	2840.6
40°	16945.6	15945.6	12742.5	8780.3	6004.7	4237.3	3847.7	3461.6	3077.9	2770.9	2716.6
42.5°	18210.0	17053.0	13550.1	8701.2	5345.9	3976.4	3648.1	3309.3	2944.5	2598.6	2530.1
45°	19389.5	18062.4	14200.6	8450.9	4602.1	3730.8	3423.8	3126.3	2775.7	2421.5	2347.1
47.5°	20429.6	19036.5	14639.8	8011.8	4011.8	3484.0	3153.5	2906.7	2603.3	2265.6	2206.6
50°	21504.0	19949.1	14983.4	7280.9	3563.1	3192.4	2881.9	2661.1	2419.1	2146.4	2093.3
52.5°	22599.6	21030.5	15437.9	6140.5	3133.4	2896.1	2580.9	2341.2	2180.6	2001.2	1950.4
55°	23813.3	22142.7	15801.5	4689.5	2736.7	2619.8	2281.0	2027.1	1890.2	1786.3	1772.1
57.5°	24848.7	23075.4	15453.3	3244.4	2455.7	2342.4	2003.5	1742.6	1599.8	1577.3	1612.7
60°	26005.7	23826.3	14167.6	2447.4	2249.1	2009.4	1726.1	1515.9	1439.2	1374.3	1375.4
62.5°	27348.1	24239.5	11930.3	2074.4	2024.8	1768.6	1551.3	1403.8	1330.6	1224.3	1194.8
65°	28110.8	24080.1	9337.6	1860.7	1820.5	1687.1	1523.0	1368.3	1256.2	1111.0	1086.2
67.5°	28368.2	22828.6	6910.2	1707.2	1710.7	1694.2	1550.2	1356.5	1222.0	1055.5	1035.4
70°	27492.1	20382.4	4415.6	1621.0	1664.7	1711.9	1610.4	1400.2	1222.0	983.5	964.6
72.5°	25212.3	17328.1	2298.7	1494.7	1635.2	1703.6	1683.6	1490.0	1178.3	891.4	872.5
75°	21542.9	13591.4	1297.5	1366.0	1577.3	1685.9	1720.2	1484.1	1083.8	758.0	732.0
77.5°	17158.1	8498.2	1040.1	1224.3	1469.9	1562.0	1671.8	1518.3	1106.2	737.9	708.4
80°	9816.9	3290.4	845.3	1030.7	1237.3	1434.5	1600.9	1460.4	1027.1	678.9	650.5
82.5°	3870.1	1009.4	670.6	819.4	1008.3	1160.6	1415.6	1332.9	935.1	499.4	466.3
85°	1014.2	417.9	459.3	563.2	706.0	845.3	1160.6	1080.3	759.1	387.2	364.8
87.5°	145.2	115.7	142.9	218.4	401.4	599.8	771.0	657.6	505.3	295.2	263.3
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)