

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: P622472

Luminaire Tested: **PRV-M-C225-D-U-T4-BZ-7050**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622472  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-5)  
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-T4-BZ-7050  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

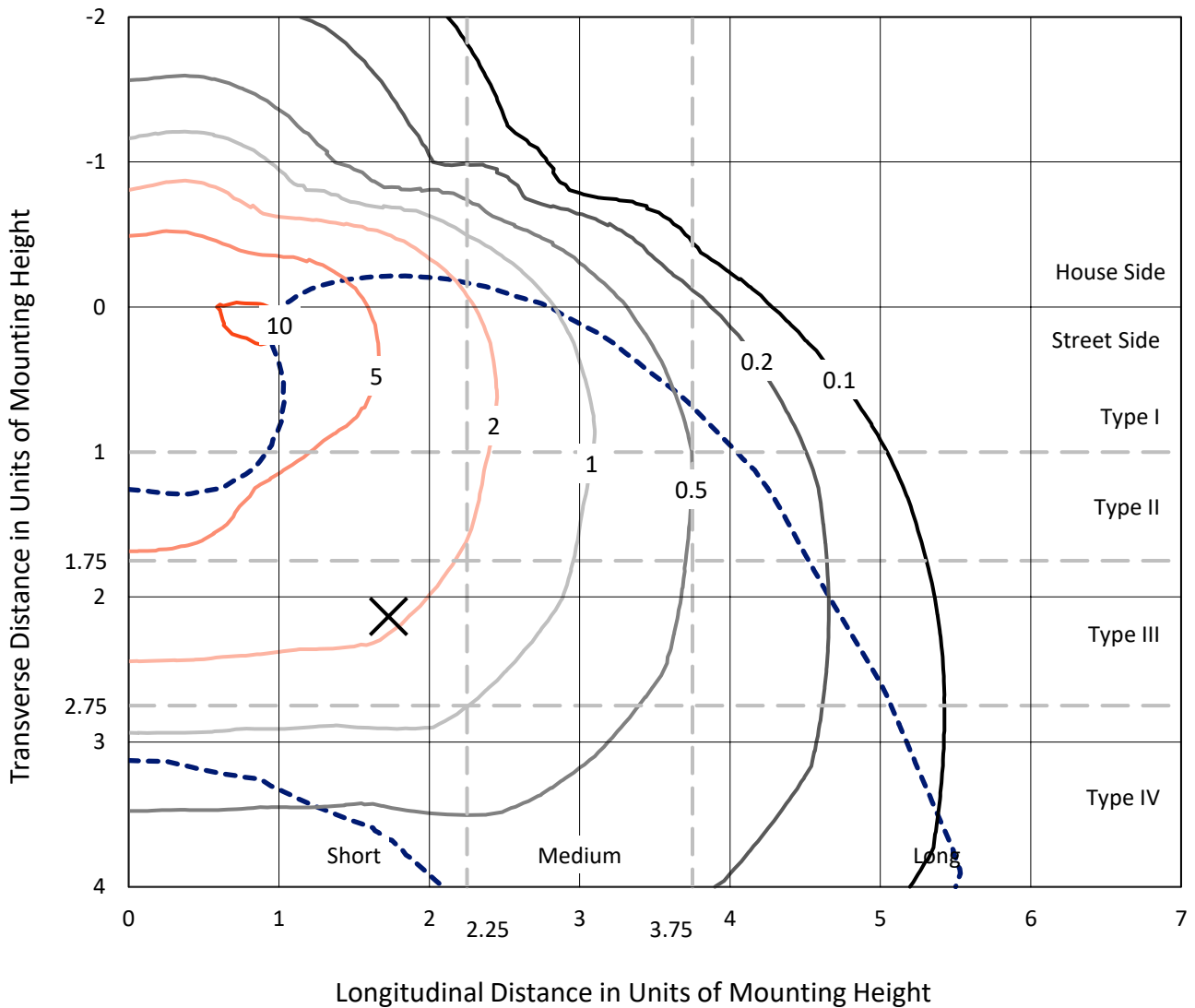
Lumens per Lamp: N/A  
Luminaire Lumens: 60806 lumens  
Efficiency: N/A  
Efficacy: 145.4 lumens/watt  
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 418.1  
Input Voltage (V): NR  
Input Current (Ain): 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

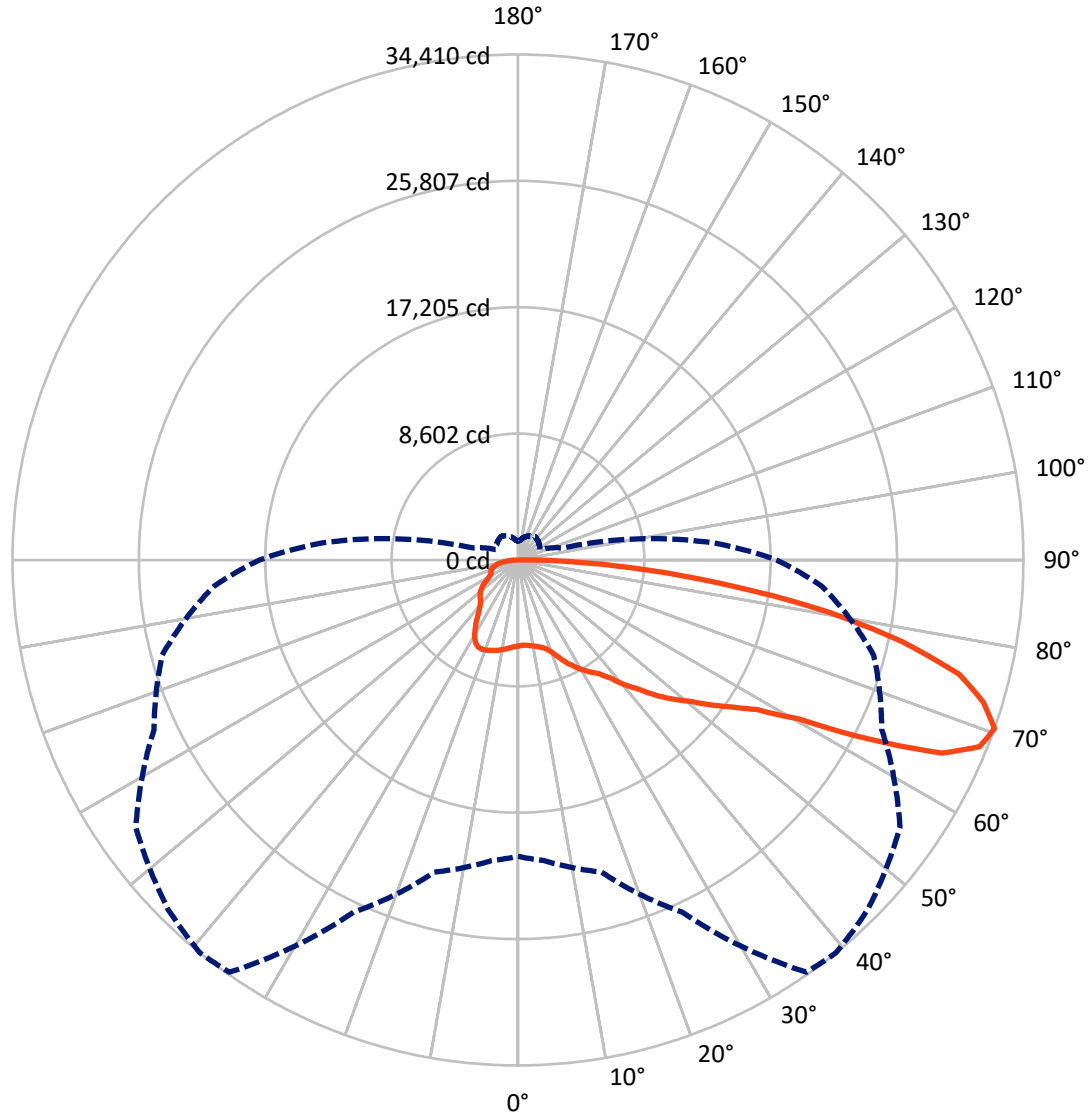
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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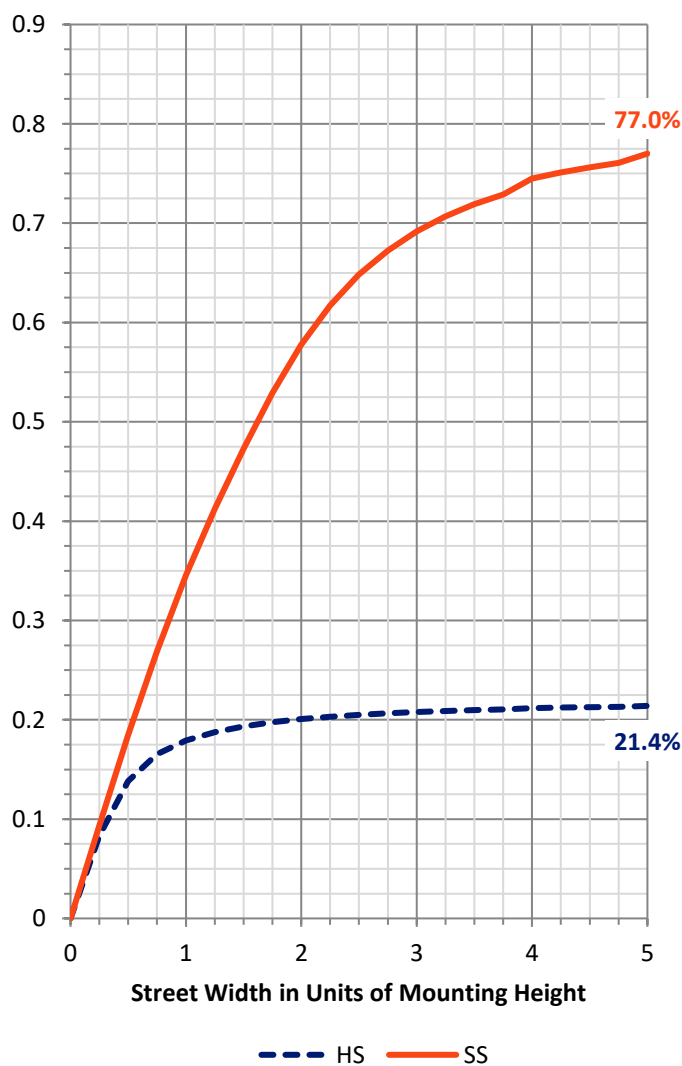
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13204.9	0.0	13204.9
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	47601.0	0.0	47601.0
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	60806.0	0.0	60806.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	569.4	0.9
10°-20°	1800.9	3.0
20°-30°	3363.0	5.5
30°-40°	5256.4	8.6
40°-50°	8051.4	13.2
50°-60°	11560.0	19.0
60°-70°	15259.9	25.1
70°-80°	12153.5	20.0
80°-90°	2791.6	4.6
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°	60806.0	100.0
0°-180°	60806.0	100.0

**Coefficient of Utilization**



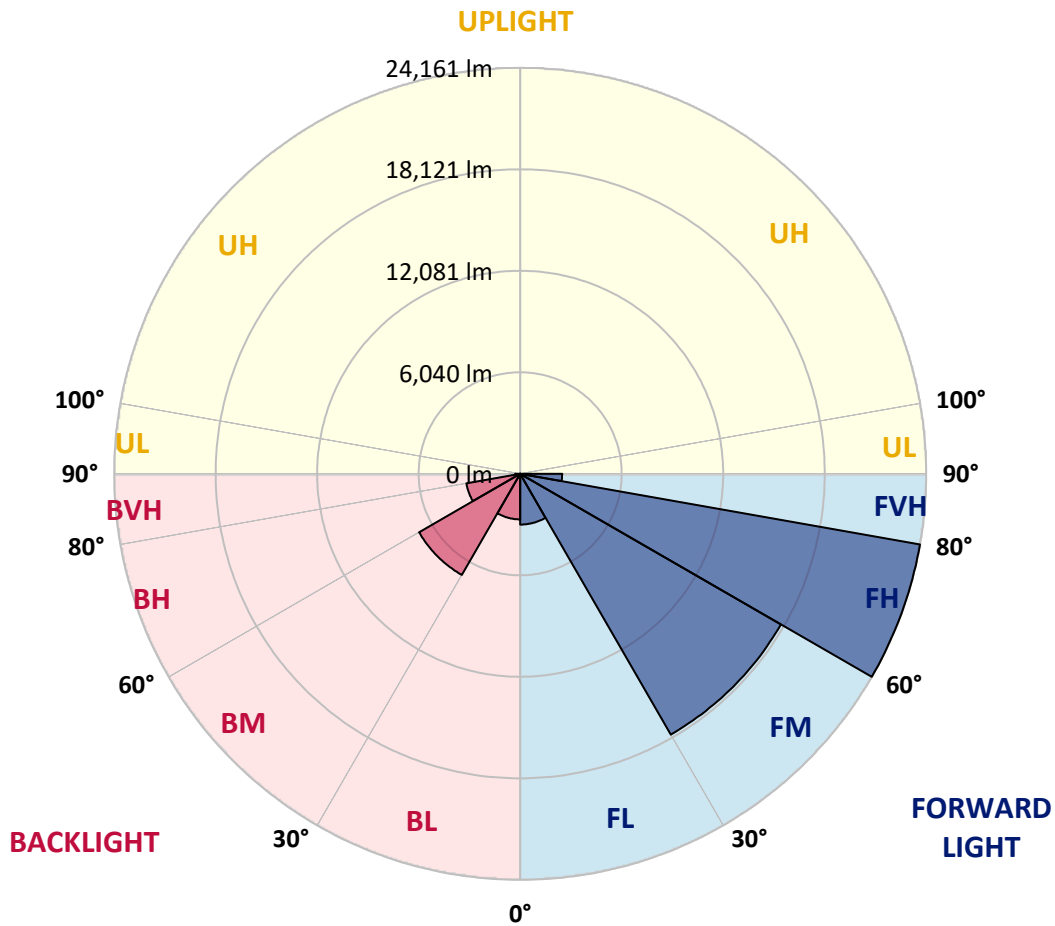
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3020.6	5.0			
FM (30°-60°)	17919.7	29.5			
FH (60°-80°)	24161.1	39.7			G5
FVH (80°-90°)	2499.6	4.1			G5
BL (0°-30°)	2712.6	4.5	B4/5000		
BM (30°-60°)	6948.0	11.4	B4/8500		
BH (60°-80°)	3252.3	5.3	B4/5000		G4/5000
BVH (80°-90°)	292.0	0.5			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5862.4	5862.4	5862.4	5862.4	5862.4	5862.4	5862.4	5862.4	5862.4	5862.4	5862.4
2.5°	5837.2	5834.8	5862.4	5836.0	5832.4	5813.1	5819.1	5840.8	5870.8	5864.8	5884.1
5°	5855.2	5852.8	5880.5	5843.2	5844.4	5833.6	5821.5	5848.0	5876.8	5878.0	5903.3
7.5°	5890.1	5899.7	5923.7	5891.3	5904.5	5886.5	5870.8	5903.3	5922.5	5914.1	5953.8
10°	5918.9	5924.9	5956.2	5940.6	5967.0	5961.0	5959.8	5998.3	6024.7	5999.5	6039.2
12.5°	5955.0	5968.2	6005.5	6003.1	6054.8	6052.4	6065.6	6128.1	6159.4	6136.5	6169.0
15°	6041.6	6054.8	6093.3	6102.9	6171.4	6184.6	6213.5	6294.0	6348.1	6325.3	6368.6
17.5°	6279.6	6272.4	6308.5	6306.1	6367.4	6379.4	6423.9	6529.7	6603.0	6612.7	6663.2
20°	6742.5	6756.9	6777.4	6750.9	6747.3	6736.5	6752.1	6824.3	6925.3	6980.6	7065.9
22.5°	7411.0	7372.5	7385.7	7293.2	7239.1	7233.0	7205.4	7239.1	7340.0	7415.8	7539.6
25°	7989.3	7994.1	7980.9	7864.2	7782.5	7768.1	7746.4	7772.9	7841.4	7940.0	8093.9
27.5°	8469.0	8453.4	8454.6	8322.3	8238.2	8211.7	8202.1	8350.0	8485.8	8553.2	8781.6
30°	8897.0	8858.6	8841.7	8728.7	8690.2	8672.2	8667.4	8909.0	9162.7	9347.9	9644.9
32.5°	9653.3	9616.0	9444.1	9167.5	9102.6	9097.8	9109.8	9432.0	9873.3	10213.5	10690.9
35°	10438.4	10419.1	10326.6	9982.7	9595.6	9519.8	9573.9	9995.9	10593.5	11292.0	11890.8
37.5°	11388.2	11353.3	11235.5	10811.1	10378.3	10178.7	10093.3	10540.6	11358.1	12653.0	13387.6
40°	12558.0	12445.0	12252.6	11690.0	11326.9	11142.9	10813.5	11194.6	12301.9	14270.1	14955.4
42.5°	13493.4	13462.2	13207.3	12697.5	12239.4	12017.0	11772.9	11960.5	13446.5	15925.7	16511.2
45°	14237.6	14267.7	14123.4	13676.2	13253.0	13121.9	12974.0	13260.2	14796.7	17708.7	17884.2
47.5°	14959.0	14981.9	14805.1	14488.9	14232.8	14145.1	14200.4	14823.2	16364.5	19214.0	19036.0
50°	16042.3	15953.3	15365.4	15203.1	15061.2	15103.3	15452.0	16215.4	18170.4	20670.0	20108.5
52.5°	17859.0	17522.3	16463.1	16127.7	16207.0	16359.7	16701.2	17639.0	20144.5	21813.3	20991.0
55°	20418.7	19890.9	18651.3	17524.7	17435.8	17664.2	18061.0	19115.4	21851.8	22865.4	21714.8
57.5°	22243.8	22223.3	21529.6	20498.0	19175.5	19206.8	19566.2	20524.5	23239.3	23915.0	22281.0
60°	23990.7	24108.5	24446.4	23822.4	22503.5	21952.8	21544.0	21946.8	24474.0	24750.6	22682.6
62.5°	25396.2	25485.2	26772.8	26966.4	27503.8	26907.5	25075.2	23780.3	25599.4	25272.4	22807.6
65°	25350.5	25334.9	27127.5	28500.5	31246.6	31698.7	30525.2	26239.0	26977.2	25540.5	22652.5
67.5°	23310.2	23256.1	25004.2	28327.4	33611.5	33902.5	33220.8	30096.0	27431.7	25502.0	22106.7
70°	20175.8	20544.9	21993.7	26439.8	34256.0	34409.8	33666.8	31751.6	27328.3	25077.6	20795.0
72.5°	16857.5	16970.5	18662.1	23191.2	33099.3	33146.2	32634.1	31380.1	26640.6	24082.1	18195.6
75°	13263.8	13218.1	14802.7	18725.8	30188.6	31008.5	30789.7	30153.7	25131.7	21250.7	13911.8
77.5°	9314.2	9252.9	10867.6	14455.3	24917.7	26754.8	27973.9	27424.5	21447.8	15950.9	7676.7
80°	4684.2	5065.3	6714.8	10321.8	19422.0	21388.9	22685.0	21749.6	15506.1	8863.4	2304.8
82.5°	1692.8	1765.0	3225.8	6372.2	13617.3	14877.3	16065.1	14541.8	7664.7	2220.6	476.1
85°	812.8	846.4	1321.3	3287.1	8319.9	8974.0	9442.9	6221.9	1429.5	425.6	269.3
87.5°	383.5	402.8	601.2	1310.5	3445.8	3578.0	3359.2	1809.5	250.1	161.1	111.8
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°	5862.4	5862.4	5862.4	5862.4	5862.4	5862.4	5862.4	5862.4	5862.4	5862.4	5862.4
2.5°	5876.8	5886.5	5902.1	5881.7	5870.8	5880.5	5903.3	5900.9	5915.3	5921.3	5909.3
5°	5900.9	5914.1	5938.2	5933.4	5932.2	5957.4	5987.5	6000.7	6018.7	6021.1	6004.3
7.5°	5951.4	5969.4	5998.3	6010.3	6028.3	6052.4	6094.5	6098.1	6122.1	6117.3	6106.5
10°	6046.4	6070.4	6116.1	6137.7	6142.6	6161.8	6193.1	6187.0	6194.3	6190.6	6173.8
12.5°	6177.4	6206.3	6271.2	6312.1	6298.9	6285.6	6270.0	6239.9	6225.5	6214.7	6199.1
15°	6380.6	6428.7	6505.6	6508.1	6456.4	6387.8	6337.3	6247.2	6190.6	6157.0	6130.5
17.5°	6706.4	6747.3	6856.7	6783.4	6660.7	6522.5	6371.0	6182.2	6030.7	5934.6	5894.9
20°	7100.8	7181.3	7284.7	7129.6	6922.8	6672.8	6399.8	6077.6	5757.8	5548.6	5505.3
22.5°	7613.0	7708.0	7705.5	7455.5	7162.1	6787.0	6405.9	5928.5	5422.4	5023.2	4963.1
25°	8216.5	8257.4	8117.9	7726.0	7298.0	6814.6	6316.9	5679.7	4942.7	4473.8	4440.1
27.5°	8815.3	8816.5	8484.6	7926.8	7307.6	6716.1	6094.5	5246.8	4443.7	4083.0	4043.3
30°	9618.4	9429.6	8823.7	8016.9	7201.8	6470.8	5658.0	4697.4	4024.1	3705.5	3667.0
32.5°	10497.3	10147.4	9115.8	7990.5	6973.3	6072.8	5086.9	4224.9	3687.5	3370.0	3338.8
35°	11578.2	10998.6	9416.4	7870.3	6552.5	5554.6	4545.9	3872.6	3418.1	3068.3	3009.4
37.5°	12912.7	12145.6	9802.4	7664.7	6089.7	4905.4	4093.8	3566.0	3160.8	2765.3	2681.1
40°	14386.7	13347.9	10301.3	7449.5	5565.5	4443.7	3769.2	3385.7	2997.3	2564.5	2484.0
42.5°	15768.2	14629.6	10942.1	7218.6	5086.9	4071.0	3630.9	3362.8	2951.6	2508.0	2413.0
45°	17081.1	15742.9	11596.2	6920.4	4586.8	3784.8	3573.2	3329.2	2912.0	2469.5	2369.7
47.5°	18123.5	16722.8	12191.3	6607.8	4145.5	3579.2	3486.7	3210.1	2818.2	2401.0	2310.8
50°	19081.7	17485.1	12651.8	6326.5	3745.2	3418.1	3324.4	3016.6	2640.3	2304.8	2226.7
52.5°	19825.9	18088.6	12910.3	6294.0	3356.8	3208.9	3097.1	2794.1	2476.7	2171.4	2095.6
55°	20345.3	18508.2	12944.0	6136.5	3021.4	2937.2	2809.8	2600.6	2390.2	2125.7	2060.7
57.5°	20679.6	18669.3	12720.3	5186.7	2675.1	2568.1	2514.0	2461.1	2308.4	2039.1	1989.8
60°	20852.7	18553.9	12186.5	3817.3	2334.9	2215.8	2306.0	2304.8	2182.2	1914.1	1873.2
62.5°	20787.8	18213.7	11118.9	2738.8	2024.7	2033.1	2132.9	2116.0	1940.5	1689.2	1642.3
65°	20316.5	17451.4	9303.4	1979.0	1880.4	1977.8	2055.9	1970.6	1746.9	1506.5	1476.4
67.5°	19301.7	15982.2	6499.6	1754.2	1843.1	1952.5	2029.5	1898.4	1667.6	1415.1	1387.5
70°	17601.7	13349.1	3144.0	1662.8	1774.6	1900.8	1974.2	1825.1	1596.7	1330.9	1288.9
72.5°	14422.8	9285.4	1303.3	1564.2	1690.4	1780.6	1890.0	1744.5	1484.8	1191.5	1157.8
75°	9044.9	4499.0	1082.1	1450.0	1560.6	1649.6	1759.0	1589.4	1290.1	922.2	893.3
77.5°	3938.7	1059.2	1019.6	1306.9	1447.6	1502.9	1595.5	1512.5	1181.9	810.4	788.7
80°	762.3	664.9	966.6	1085.7	1245.6	1321.3	1369.4	1315.3	995.5	618.0	515.8
82.5°	435.2	568.7	841.6	809.1	984.7	976.3	1067.6	1076.1	794.7	300.6	269.3
85°	295.8	478.5	565.1	500.2	575.9	591.5	773.1	752.6	541.0	180.3	145.5
87.5°	139.5	145.5	187.6	170.7	227.2	329.4	447.3	400.4	236.9	102.2	86.6
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)