

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: P622690

Luminaire Tested: **PRV-M-PA6B-740-U-T4W**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622690  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/29/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-M-PA6B-740-U-T4W  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K LIGHT ENGINES AND TYPE IV OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52086 lumens  
Efficiency: N/A  
Efficacy: 142.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5

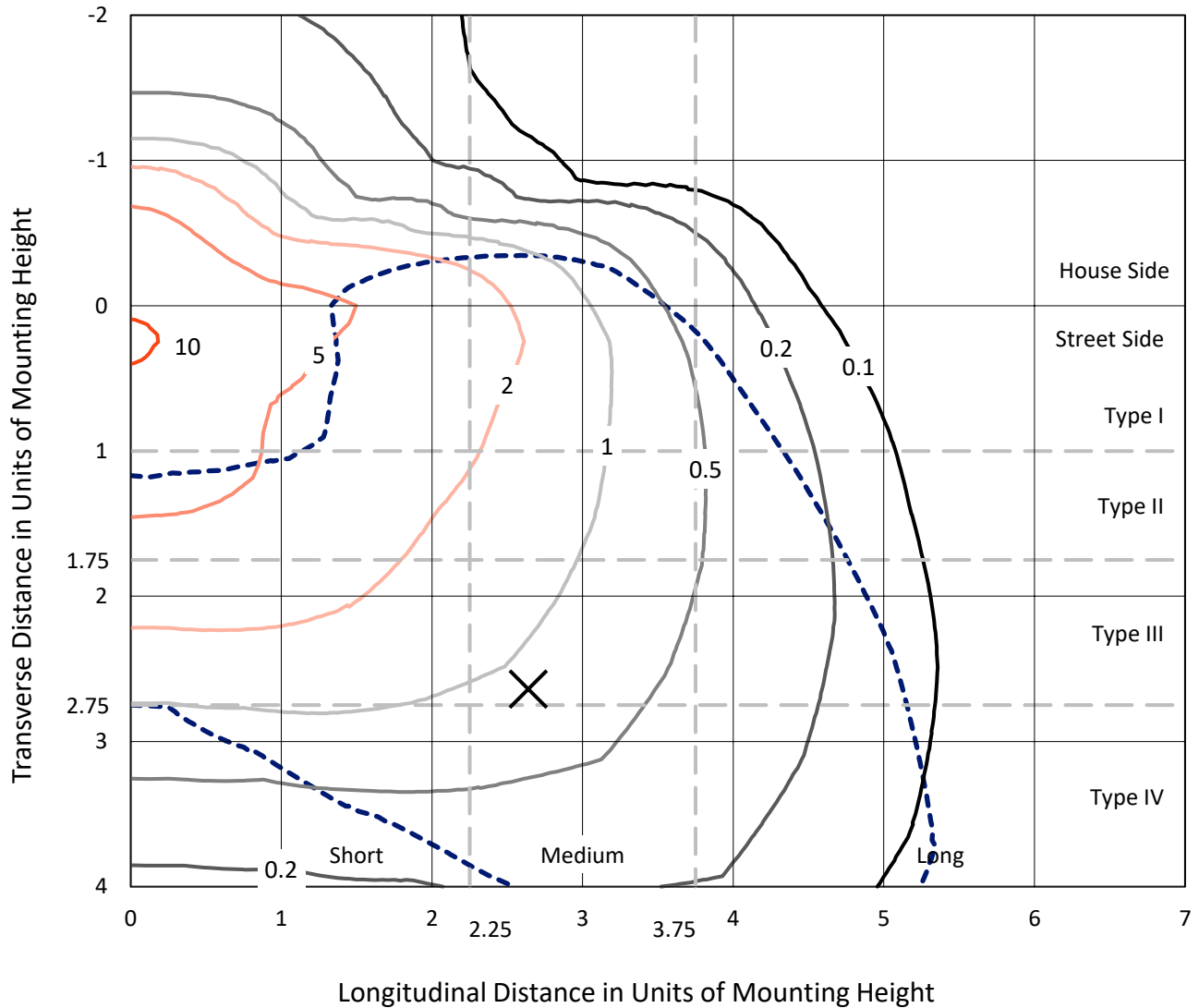
Input Watts (W): 365.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

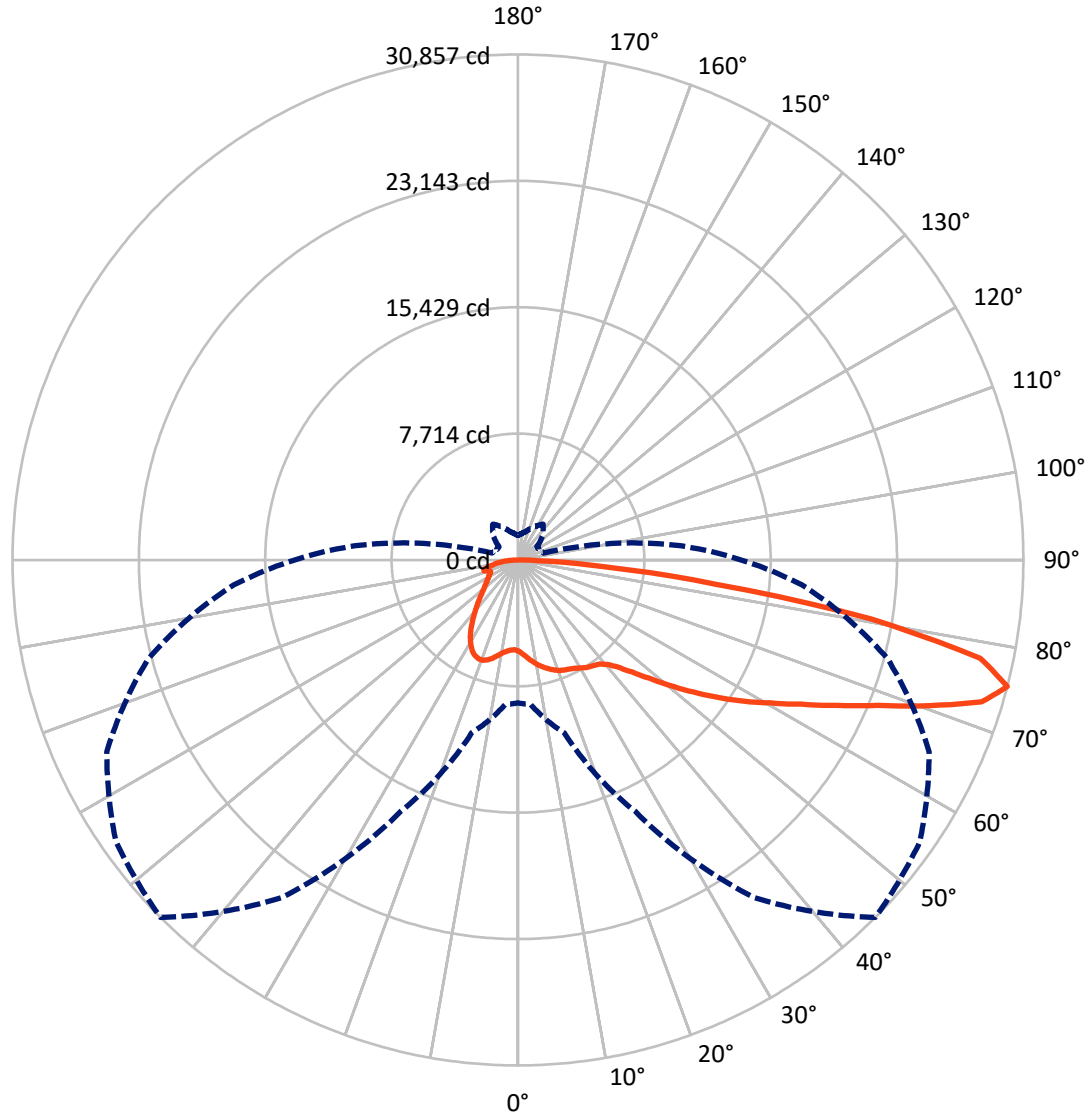
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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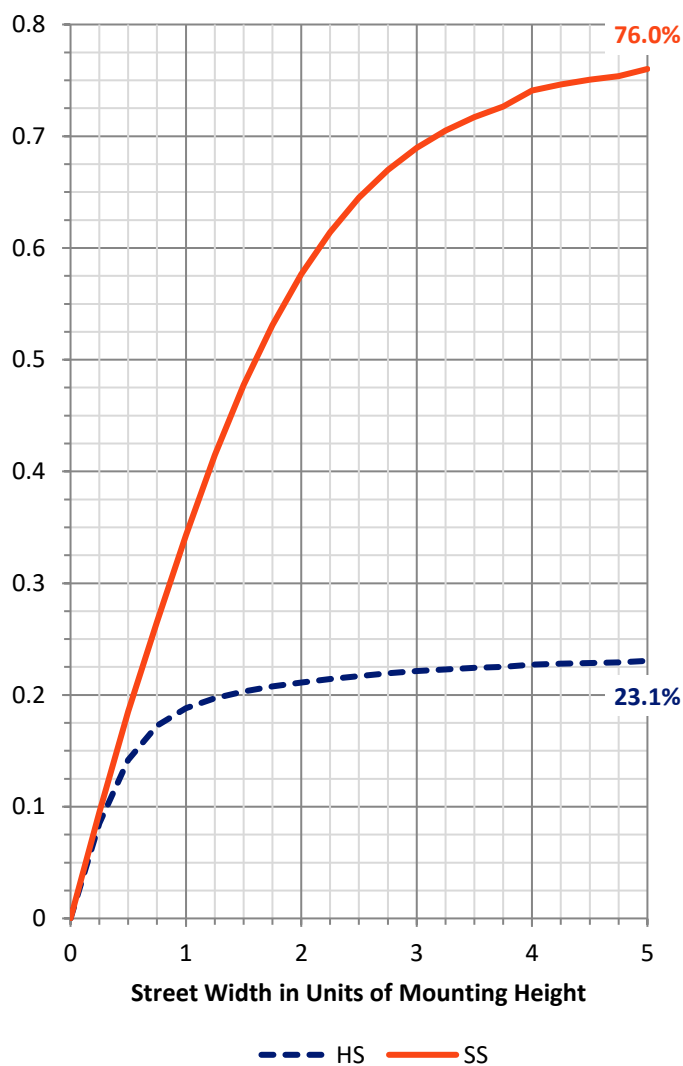
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12256.8	0.0	12256.8
	% Fixture	23.5	0.0	23.5
<b>Street Side</b>	Lumens	39829.2	0.0	39829.2
	% Fixture	76.5	0.0	76.5
<b>Total</b>	Lumens	52086.0	0.0	52086.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	560.9	1.1
10°-20°	1855.1	3.6
20°-30°	3192.9	6.1
30°-40°	4399.3	8.4
40°-50°	6128.5	11.8
50°-60°	9175.3	17.6
60°-70°	13005.2	25.0
70°-80°	11695.7	22.5
80°-90°	2073.1	4.0
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°	52086.0	100.0
0°-180°	52086.0	100.0

**Coefficient of Utilization**



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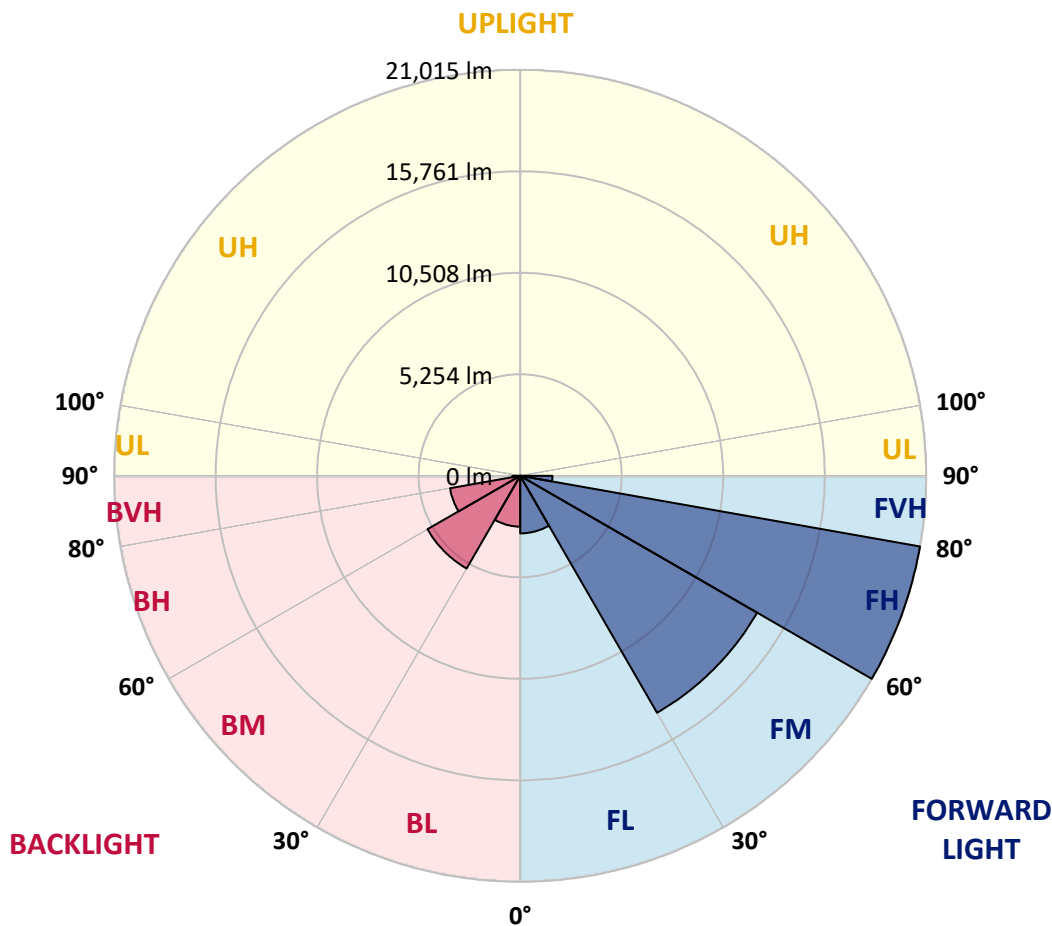
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2979.2	5.7			
FM (30°-60°)	14164.0	27.2			
FH (60°-80°)	21015.2	40.3			G5
FVH (80°-90°)	1670.8	3.2			G5
BL (0°-30°)	2629.7	5.0	B4/5000		
BM (30°-60°)	5539.1	10.6	B4/8500		
BH (60°-80°)	3685.7	7.1	B4/5000		G4/5000
BVH (80°-90°)	402.3	0.8			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5563.0	5563.0	5563.0	5563.0	5563.0	5563.0	5563.0	5563.0	5563.0	5563.0	5563.0
2.5°	5875.2	5860.0	5851.1	5804.4	5769.0	5748.8	5700.7	5665.3	5616.0	5578.1	5566.7
5°	6287.2	6258.2	6234.1	6155.8	6072.4	5990.2	5873.9	5772.8	5662.8	5579.4	5551.6
7.5°	6691.7	6669.0	6619.7	6499.6	6375.7	6241.7	6073.6	5924.5	5769.0	5652.7	5608.5
10°	7046.9	7017.8	6933.1	6796.6	6636.1	6489.5	6299.9	6129.2	5949.7	5808.2	5751.3
12.5°	7352.8	7309.8	7202.4	7033.0	6842.1	6691.7	6513.5	6356.8	6159.6	5995.2	5927.0
15°	7608.1	7558.8	7447.6	7227.7	7012.8	6887.6	6732.2	6584.3	6380.8	6189.9	6112.8
17.5°	7793.9	7751.0	7625.8	7368.0	7150.6	7054.5	6929.4	6797.9	6599.4	6388.4	6315.0
20°	7864.7	7812.9	7704.2	7437.5	7244.1	7199.9	7103.8	6992.6	6806.7	6598.2	6518.5
22.5°	7801.5	7758.6	7671.3	7427.4	7283.3	7289.6	7231.5	7156.9	6997.6	6791.6	6723.3
25°	7706.7	7661.2	7595.5	7388.2	7312.4	7369.2	7347.7	7311.1	7193.5	6995.1	6925.6
27.5°	7668.8	7615.7	7565.2	7390.7	7371.8	7484.3	7493.1	7494.4	7395.8	7194.8	7143.0
30°	7778.8	7719.4	7648.6	7465.3	7479.2	7644.8	7699.1	7673.9	7567.7	7386.9	7341.4
32.5°	8113.7	8050.5	7922.9	7643.5	7610.7	7812.9	7878.6	7804.1	7704.2	7560.1	7542.4
35°	8868.4	8771.0	8515.7	8015.1	7781.3	7916.6	8008.8	7954.5	7873.6	7787.6	7807.8
37.5°	10102.0	9968.1	9557.3	8699.0	8103.6	8063.2	8192.1	8193.4	8118.8	8083.4	8137.8
40°	11554.4	11414.1	10986.9	9798.7	8729.3	8372.9	8490.4	8551.1	8484.1	8508.1	8587.7
42.5°	12966.3	12821.0	12515.1	11177.7	9572.4	8929.0	8951.8	9100.9	9033.9	9114.8	9255.2
45°	14097.6	13975.0	13852.4	12515.1	10739.1	9745.6	9582.5	9845.4	9821.4	9979.4	10175.4
47.5°	14896.5	14770.1	14785.2	13786.7	12129.5	10788.4	10394.0	10830.1	10844.0	11191.6	11407.8
50°	15539.9	15417.2	15457.7	14867.4	13528.8	12041.1	11417.9	11993.0	12219.3	12746.4	13005.5
52.5°	16267.9	16163.0	16251.5	15850.8	15002.6	13397.3	12608.6	13398.6	13750.0	14577.9	14842.1
55°	17088.3	16997.3	17276.6	17031.4	16594.1	14818.1	13932.0	14990.0	15428.6	16706.5	17042.8
57.5°	17746.8	17649.5	18239.8	18478.7	18285.3	16276.8	15400.8	16645.9	17090.8	19081.6	19406.5
60°	18506.5	18366.2	19105.7	19848.9	20073.9	17711.4	17054.2	18463.5	18897.1	21657.7	21753.8
62.5°	18969.1	18861.7	19856.5	21069.9	21679.2	19390.1	18943.9	20274.9	20743.8	24321.0	23859.6
65°	18324.5	18377.6	20269.8	22045.8	23135.4	21404.9	21023.2	22194.9	22675.2	26697.4	25277.9
67.5°	16994.7	17095.9	19795.8	22684.1	24624.4	23704.2	23212.5	24217.4	24546.0	28090.3	25516.8
70°	15424.8	15517.1	18276.5	22805.4	26018.6	26635.4	25904.8	26410.4	25992.0	27577.1	23772.4
72.5°	13070.0	13315.2	15445.1	21236.8	26624.0	29607.1	28802.0	28095.4	25909.9	24050.5	19610.0
75°	8726.8	8849.4	10927.5	16937.9	25162.8	30857.2	29959.8	27694.7	23370.5	17389.1	13637.5
77.5°	3856.5	4240.8	5680.5	9930.1	19660.6	28863.9	27488.6	23196.0	16208.5	9556.0	6772.6
80°	1413.2	1495.3	2217.1	4109.3	11404.0	21857.4	19938.6	14791.6	8193.4	3626.5	2530.6
82.5°	790.0	827.9	1205.9	1880.9	5119.3	12197.8	11093.0	6378.2	2825.1	1192.0	1063.0
85°	436.1	455.0	739.5	1180.6	2488.9	5300.0	4223.1	2162.7	1143.9	477.8	452.5
87.5°	192.1	225.0	398.2	597.9	1135.1	1212.2	1050.4	844.4	533.4	180.8	159.3
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5563.0	5563.0	5563.0	5563.0	5563.0	5563.0	5563.0	5563.0	5563.0	5563.0
2.5°	5554.1	5535.1	5523.8	5498.5	5483.3	5488.4	5490.9	5499.7	5514.9	5482.1
5°	5531.4	5504.8	5502.3	5502.3	5520.0	5547.8	5574.3	5595.8	5627.4	5585.7
7.5°	5580.6	5551.6	5552.8	5570.5	5605.9	5659.0	5717.2	5756.3	5801.9	5752.6
10°	5726.0	5690.6	5702.0	5715.9	5755.1	5817.0	5894.1	5962.4	6018.0	5981.3
12.5°	5903.0	5871.4	5879.0	5911.8	5959.9	6018.0	6088.8	6152.0	6206.3	6158.3
15°	6083.7	6069.8	6083.7	6136.8	6195.0	6222.8	6230.4	6260.7	6297.3	6256.9
17.5°	6296.1	6279.6	6294.8	6364.3	6378.2	6350.4	6294.8	6282.2	6303.7	6267.0
20°	6495.8	6488.2	6500.9	6536.2	6489.5	6388.4	6296.1	6259.4	6287.2	6250.6
22.5°	6710.7	6667.7	6655.1	6614.6	6485.7	6358.0	6259.4	6226.6	6267.0	6240.5
25°	6919.2	6816.9	6722.1	6567.8	6377.0	6263.2	6188.6	6159.6	6200.0	6188.6
27.5°	7113.9	6935.7	6704.4	6389.6	6177.3	6078.7	6045.8	6037.0	6088.8	6082.5
30°	7314.9	7030.5	6590.6	6117.9	5857.5	5780.4	5828.4	5886.5	5949.7	5961.1
32.5°	7517.1	7097.5	6392.1	5767.7	5484.6	5417.6	5551.6	5684.3	5770.2	5800.6
35°	7759.8	7145.5	6122.9	5356.9	5042.2	5024.5	5187.5	5360.7	5482.1	5504.8
37.5°	8059.4	7173.3	5793.0	4923.4	4582.1	4572.0	4721.1	4879.1	4981.5	5033.3
40°	8475.3	7178.4	5373.3	4440.5	4122.0	4108.1	4167.5	4252.2	4306.5	4364.7
42.5°	9065.5	7160.7	4944.8	3952.6	3722.5	3668.2	3642.9	3627.7	3541.8	3558.2
45°	9870.7	7139.2	4494.9	3527.9	3350.9	3232.1	3155.0	3042.5	2873.1	2870.6
47.5°	10899.6	7167.0	4092.9	3161.3	3032.4	2899.7	2749.2	2573.5	2390.3	2380.1
50°	12108.0	7284.5	3685.9	2845.3	2756.8	2629.2	2457.3	2247.4	2071.7	2055.3
52.5°	13492.1	7421.1	3281.4	2571.0	2545.7	2424.4	2236.1	2023.7	1885.9	1865.7
55°	15122.7	7666.3	2897.1	2343.5	2367.5	2261.3	2074.3	1877.1	1762.0	1750.7
57.5°	16872.1	7887.5	2541.9	2160.2	2215.8	2138.7	1965.6	1786.1	1700.1	1678.6
60°	18746.7	7682.7	2274.0	2002.2	2084.4	2045.2	1873.3	1701.4	1654.6	1643.2
62.5°	20312.8	6845.9	2060.4	1867.0	1971.9	1965.6	1802.5	1664.7	1654.6	1647.0
65°	21133.1	5466.9	1908.7	1753.2	1880.9	1891.0	1791.1	1678.6	1702.6	1711.5
67.5°	20772.9	3970.3	1806.3	1660.9	1805.0	1992.1	2088.2	2033.8	2036.3	2028.8
70°	18950.2	2796.0	1711.5	1588.9	1907.4	2535.6	2516.7	2236.1	2105.9	2031.3
72.5°	15369.2	2069.2	1604.0	1535.8	2179.2	2831.4	2475.0	2026.2	1825.2	1759.5
75°	9956.7	1638.2	1449.8	1413.2	2133.7	2669.6	2190.5	1782.3	1572.4	1508.0
77.5°	4570.7	1320.9	1255.2	1192.0	1798.7	2303.0	1845.5	1499.1	1320.9	1300.7
80°	1793.6	1090.8	1015.0	967.0	1472.6	1988.3	1620.5	1310.8	1150.3	1116.1
82.5°	896.2	862.1	785.0	735.7	1248.9	1794.9	1430.9	1130.0	988.5	926.5
85°	482.9	576.4	547.3	490.4	881.0	1334.8	1042.8	791.3	656.0	649.7
87.5°	238.9	262.9	221.2	233.8	451.3	716.7	643.4	496.8	375.4	393.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)