

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: P622672

Luminaire Tested: **PRV-M-PA6B-730-U-T4W**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622672  
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-730-U-T4W  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K LIGHT ENGINES AND TYPE IV OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47435 lumens  
Efficiency: N/A  
Efficacy: 129.7 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

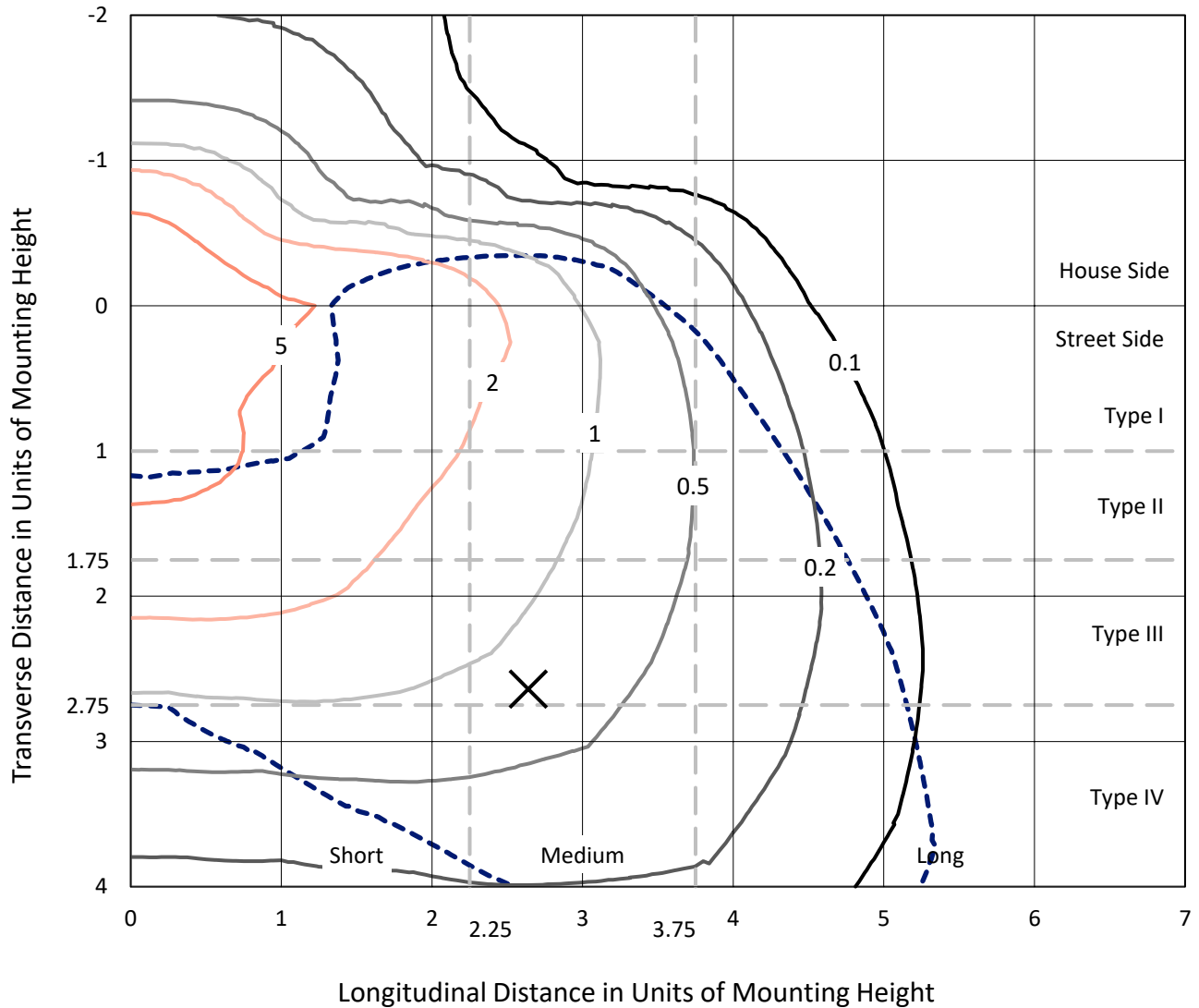
Input Watts (W): 365.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

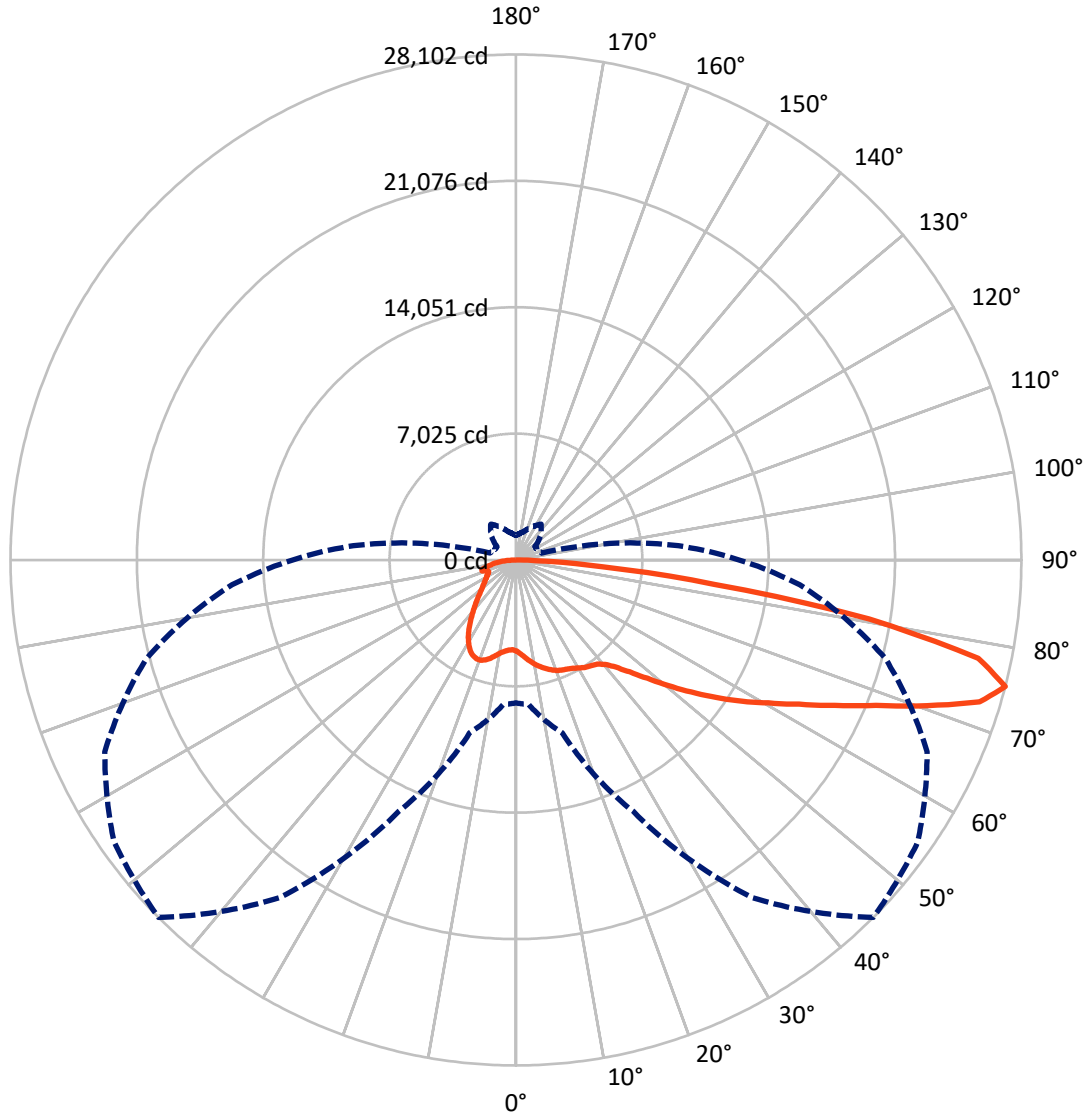
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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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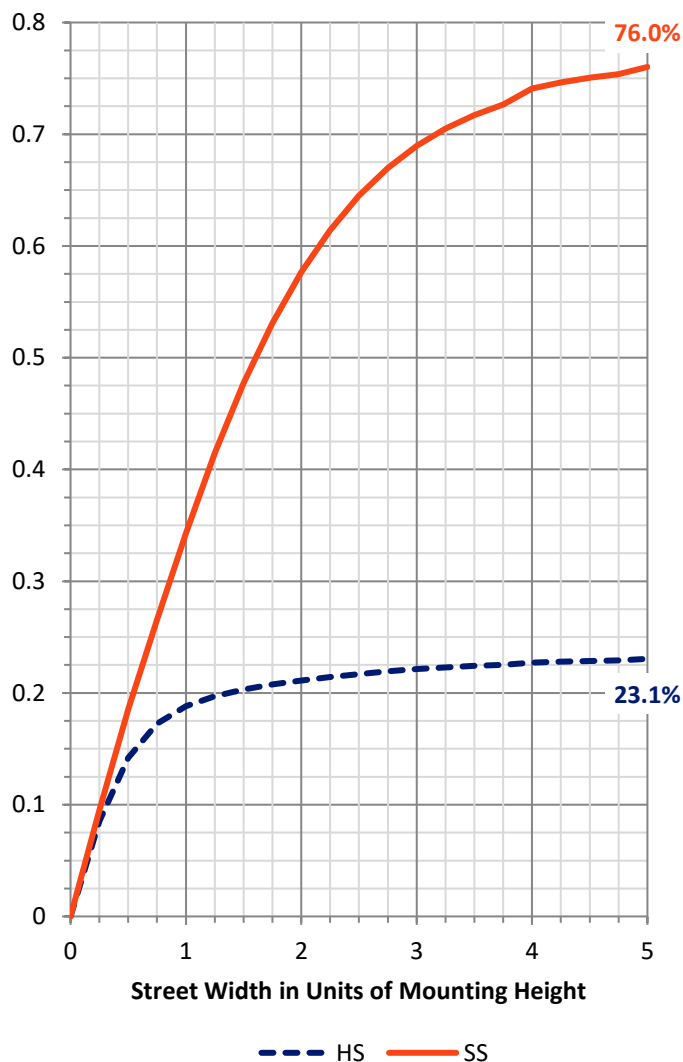
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11162.3	0.0	11162.3
	% Fixture	23.5	0.0	23.5
<b>Street Side</b>	Lumens	36272.7	0.0	36272.7
	% Fixture	76.5	0.0	76.5
<b>Total</b>	Lumens	47435.0	0.0	47435.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	510.8	1.1
10°-20°	1689.5	3.6
20°-30°	2907.8	6.1
30°-40°	4006.4	8.4
40°-50°	5581.3	11.8
50°-60°	8356.0	17.6
60°-70°	11843.9	25.0
70°-80°	10651.3	22.5
80°-90°	1888.0	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°	47435.0	100.0
0°-180°	47435.0	100.0

**Coefficient of Utilization**



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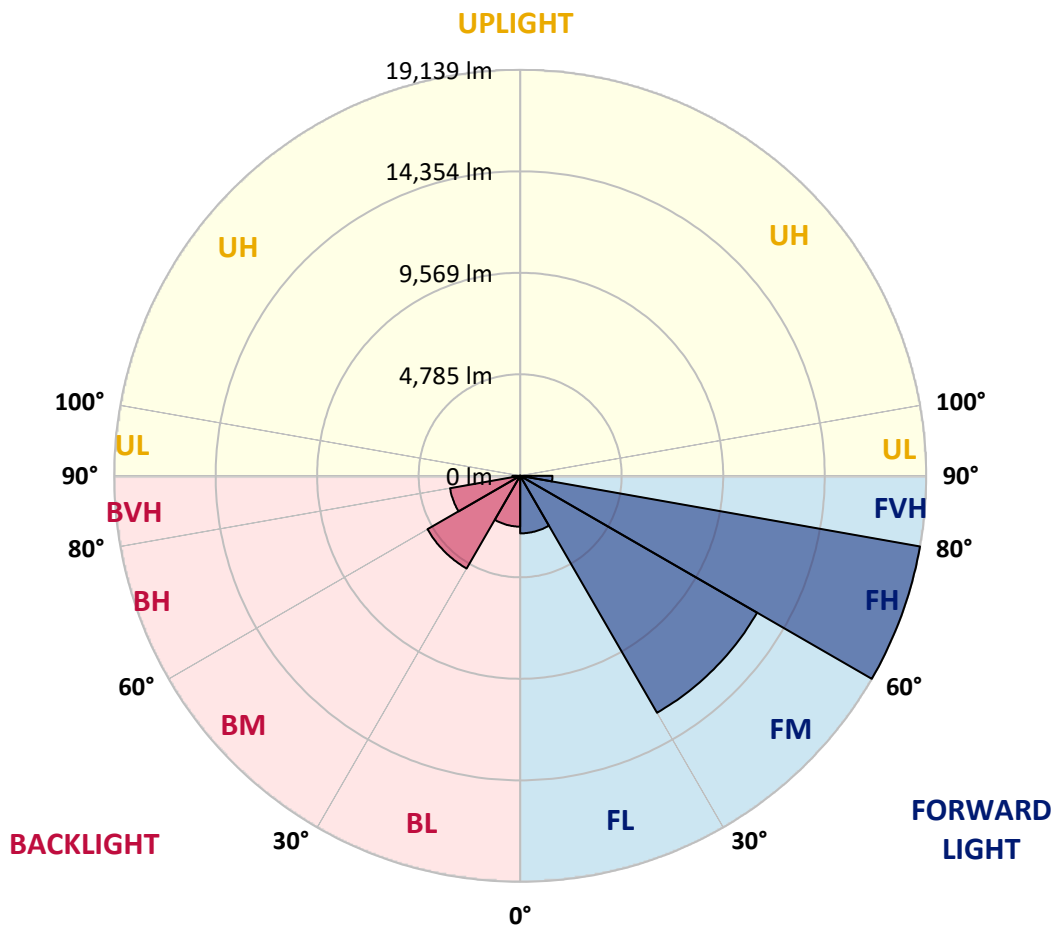
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2713.2	5.7			
FM (30°-60°)	12899.2	27.2			
FH (60°-80°)	19138.7	40.3			G5
FVH (80°-90°)	1521.6	3.2			G5
BL (0°-30°)	2394.9	5.0	B3/2500		
BM (30°-60°)	5044.5	10.6	B4/8500		
BH (60°-80°)	3356.6	7.1	B4/5000		G4/5000
BVH (80°-90°)	366.4	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°	5066.2	5066.2	5066.2	5066.2	5066.2	5066.2	5066.2	5066.2	5066.2	5066.2	5066.2
2.5°	5350.5	5336.7	5328.7	5286.1	5253.8	5235.4	5191.7	5159.5	5114.6	5080.0	5069.7
5°	5725.8	5699.3	5677.5	5606.1	5530.1	5455.3	5349.4	5257.3	5157.1	5081.2	5055.8
7.5°	6094.2	6073.5	6028.6	5919.2	5806.4	5684.4	5531.3	5395.4	5253.8	5147.9	5107.7
10°	6417.7	6391.2	6314.1	6189.7	6043.5	5910.0	5737.3	5581.9	5418.5	5289.5	5237.7
12.5°	6696.2	6657.1	6559.2	6405.0	6231.2	6094.2	5931.9	5789.1	5609.6	5459.9	5397.7
15°	6928.8	6883.9	6782.6	6582.3	6386.6	6272.6	6131.0	5996.3	5811.0	5637.2	5567.0
17.5°	7098.0	7058.8	6944.9	6710.1	6512.1	6424.6	6310.6	6190.9	6010.2	5817.9	5751.1
20°	7162.5	7115.3	7016.3	6773.4	6597.2	6556.9	6469.5	6368.2	6198.9	6009.0	5936.5
22.5°	7104.9	7065.8	6986.3	6764.2	6632.9	6638.7	6585.7	6517.8	6372.8	6185.1	6123.0
25°	7018.6	6977.1	6917.3	6728.5	6659.4	6711.2	6691.6	6658.2	6551.2	6370.5	6307.1
27.5°	6984.0	6935.7	6889.6	6730.8	6713.5	6816.0	6824.0	6825.2	6735.4	6552.3	6505.1
30°	7084.2	7030.1	6965.6	6798.7	6811.4	6962.2	7011.7	6988.6	6891.9	6727.3	6685.9
32.5°	7389.2	7331.7	7215.4	6961.0	6931.1	7115.3	7175.1	7107.2	7016.3	6885.0	6868.9
35°	8076.5	7987.8	7755.3	7299.4	7086.5	7209.6	7293.7	7244.2	7170.5	7092.2	7110.7
37.5°	9200.0	9078.0	8703.8	7922.2	7380.0	7343.2	7460.6	7461.8	7393.8	7361.6	7411.1
40°	10522.7	10394.9	10005.8	8923.7	7949.8	7625.2	7732.3	7787.5	7726.5	7748.4	7820.9
42.5°	11808.5	11676.1	11397.5	10179.6	8717.7	8131.7	8152.4	8288.3	8227.3	8300.9	8428.7
45°	12838.8	12727.1	12615.4	11397.5	9780.2	8875.4	8726.9	8966.3	8944.4	9088.3	9266.8
47.5°	13566.3	13451.2	13465.0	12555.6	11046.4	9825.1	9465.9	9863.0	9875.7	10192.3	10389.1
50°	14152.2	14040.6	14077.4	13539.8	12320.8	10965.9	10398.3	10922.1	11128.2	11608.2	11844.2
52.5°	14815.3	14719.7	14800.3	14435.4	13663.0	12201.0	11482.7	12202.2	12522.2	13276.2	13516.8
55°	15562.4	15479.5	15733.9	15510.6	15112.3	13494.9	12688.0	13651.5	14050.9	15214.7	15520.9
57.5°	16162.1	16073.5	16611.1	16828.7	16652.5	14823.4	14025.6	15159.5	15564.7	17377.8	17673.6
60°	16854.0	16726.2	17399.6	18076.5	18281.4	16129.9	15531.3	16814.8	17209.7	19723.8	19811.3
62.5°	17275.3	17177.5	18083.4	19188.5	19743.4	17658.6	17252.3	18464.4	18891.5	22149.3	21729.1
65°	16688.2	16736.6	18459.8	20077.2	21069.5	19493.6	19145.9	20213.0	20650.5	24313.4	23020.7
67.5°	15477.2	15569.3	18028.2	20658.5	22425.5	21587.5	21139.7	22054.9	22354.2	25582.0	23238.3
70°	14047.5	14131.5	16644.5	20769.0	23695.3	24257.0	23591.7	24052.1	23671.1	25114.6	21649.7
72.5°	11902.9	12126.2	14065.9	19340.5	24246.7	26963.4	26230.1	25586.6	23596.3	21902.9	17858.9
75°	7947.5	8059.2	9951.7	15425.4	22915.9	28101.9	27284.5	25221.7	21283.6	15836.4	12419.8
77.5°	3512.2	3862.1	5173.3	9043.4	17905.0	26286.5	25034.0	21124.7	14761.2	8702.7	6167.9
80°	1287.0	1361.8	2019.1	3742.4	10385.7	19905.7	18158.2	13470.8	7461.8	3302.6	2304.6
82.5°	719.5	754.0	1098.2	1712.9	4662.2	11108.6	10102.5	5808.7	2572.8	1085.5	968.1
85°	397.1	414.4	673.4	1075.2	2266.6	4826.8	3846.0	1969.6	1041.8	435.1	412.1
87.5°	175.0	204.9	362.6	544.5	1033.7	1104.0	956.6	769.0	485.8	164.6	145.0
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5066.2	5066.2	5066.2	5066.2	5066.2	5066.2	5066.2	5066.2	5066.2	5066.2
2.5°	5058.2	5040.9	5030.5	5007.5	4993.7	4998.3	5000.6	5008.7	5022.5	4992.5
5°	5037.4	5013.3	5011.0	5011.0	5027.1	5052.4	5076.6	5096.1	5124.9	5086.9
7.5°	5082.3	5055.8	5057.0	5073.1	5105.3	5153.7	5206.6	5242.3	5283.8	5238.9
10°	5214.7	5182.5	5192.8	5205.5	5241.2	5297.6	5367.8	5430.0	5480.6	5447.2
12.5°	5375.9	5347.1	5354.0	5383.9	5427.7	5480.6	5545.1	5602.6	5652.1	5608.4
15°	5540.5	5527.8	5540.5	5588.8	5641.8	5667.1	5674.0	5701.6	5735.0	5698.2
17.5°	5733.9	5718.9	5732.7	5796.0	5808.7	5783.4	5732.7	5721.2	5740.8	5707.4
20°	5915.8	5908.9	5920.4	5952.6	5910.0	5817.9	5733.9	5700.5	5725.8	5692.4
22.5°	6111.5	6072.3	6060.8	6024.0	5906.5	5790.3	5700.5	5670.6	5707.4	5683.2
25°	6301.4	6208.1	6121.8	5981.4	5807.5	5703.9	5636.0	5609.6	5646.4	5636.0
27.5°	6478.7	6316.4	6105.7	5819.1	5625.7	5535.9	5505.9	5497.9	5545.1	5539.3
30°	6661.7	6402.7	6002.1	5571.6	5334.4	5264.2	5308.0	5360.9	5418.5	5428.8
32.5°	6845.9	6463.7	5821.4	5252.7	4994.8	4933.8	5055.8	5176.7	5255.0	5282.6
35°	7066.9	6507.4	5576.2	4878.6	4591.9	4575.8	4724.3	4882.0	4992.5	5013.3
37.5°	7339.7	6532.8	5275.7	4483.7	4172.9	4163.7	4299.5	4443.4	4536.7	4583.9
40°	7718.5	6537.4	4893.5	4044.0	3753.9	3741.2	3795.3	3872.5	3922.0	3974.9
42.5°	8256.0	6521.3	4503.3	3599.6	3390.1	3340.6	3317.6	3303.8	3225.5	3240.5
45°	8989.3	6501.7	4093.5	3212.9	3051.7	2943.5	2873.3	2770.8	2616.6	2614.3
47.5°	9926.4	6527.0	3727.4	2879.0	2761.6	2640.7	2503.8	2343.7	2176.8	2167.6
50°	11026.9	6634.1	3356.8	2591.2	2510.7	2394.4	2237.8	2046.7	1886.7	1871.8
52.5°	12287.4	6758.4	2988.4	2341.4	2318.4	2207.9	2036.4	1843.0	1717.5	1699.1
55°	13772.4	6981.7	2638.4	2134.2	2156.1	2059.4	1889.0	1709.5	1604.7	1594.3
57.5°	15365.5	7183.2	2315.0	1967.3	2018.0	1947.7	1790.0	1626.6	1548.3	1528.7
60°	17072.7	6996.7	2070.9	1823.4	1898.2	1862.6	1706.0	1549.4	1506.9	1496.5
62.5°	18499.0	6234.6	1876.4	1700.2	1795.8	1790.0	1641.5	1516.1	1506.9	1499.9
65°	19246.1	4978.7	1738.2	1596.6	1712.9	1722.1	1631.2	1528.7	1550.6	1558.7
67.5°	18918.0	3615.8	1645.0	1512.6	1643.8	1814.2	1901.7	1852.2	1854.5	1847.6
70°	17258.0	2546.3	1558.7	1447.0	1737.1	2309.2	2291.9	2036.4	1917.8	1849.9
72.5°	13996.8	1884.4	1460.8	1398.6	1984.6	2578.6	2254.0	1845.3	1662.3	1602.4
75°	9067.6	1491.9	1320.4	1287.0	1943.1	2431.2	1994.9	1623.1	1432.0	1373.3
77.5°	4162.6	1203.0	1143.1	1085.5	1638.1	2097.4	1680.7	1365.3	1203.0	1184.5
80°	1633.5	993.4	924.4	880.6	1341.1	1810.8	1475.8	1193.7	1047.5	1016.5
82.5°	816.2	785.1	714.9	670.0	1137.3	1634.6	1303.1	1029.1	900.2	843.8
85°	439.7	524.9	498.4	446.6	802.4	1215.6	949.7	720.6	597.4	591.7
87.5°	217.6	239.4	201.5	213.0	411.0	652.7	585.9	452.4	341.9	358.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)