

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: P622514

Luminaire Tested: **PRV-M-C250-D-U-T4-BZ-7050**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622514  
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-C250-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**

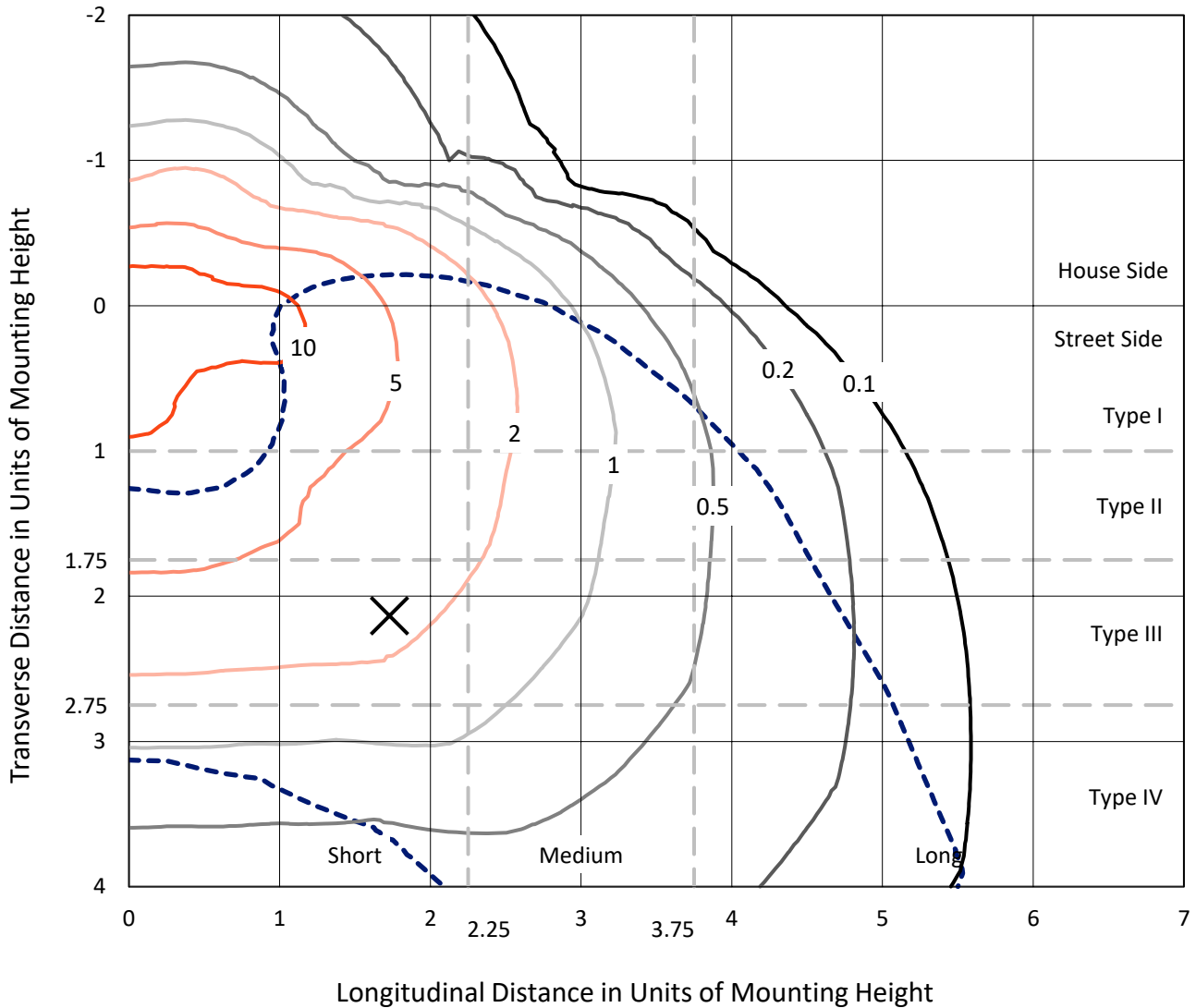
Lumens per Lamp: N/A  
Luminaire Lumens: 70015 lumens  
Efficiency: N/A  
Efficacy: 143.9 lumens/watt  
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 486.6  
Input Voltage (V): NR  
Input Current (Ain): 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

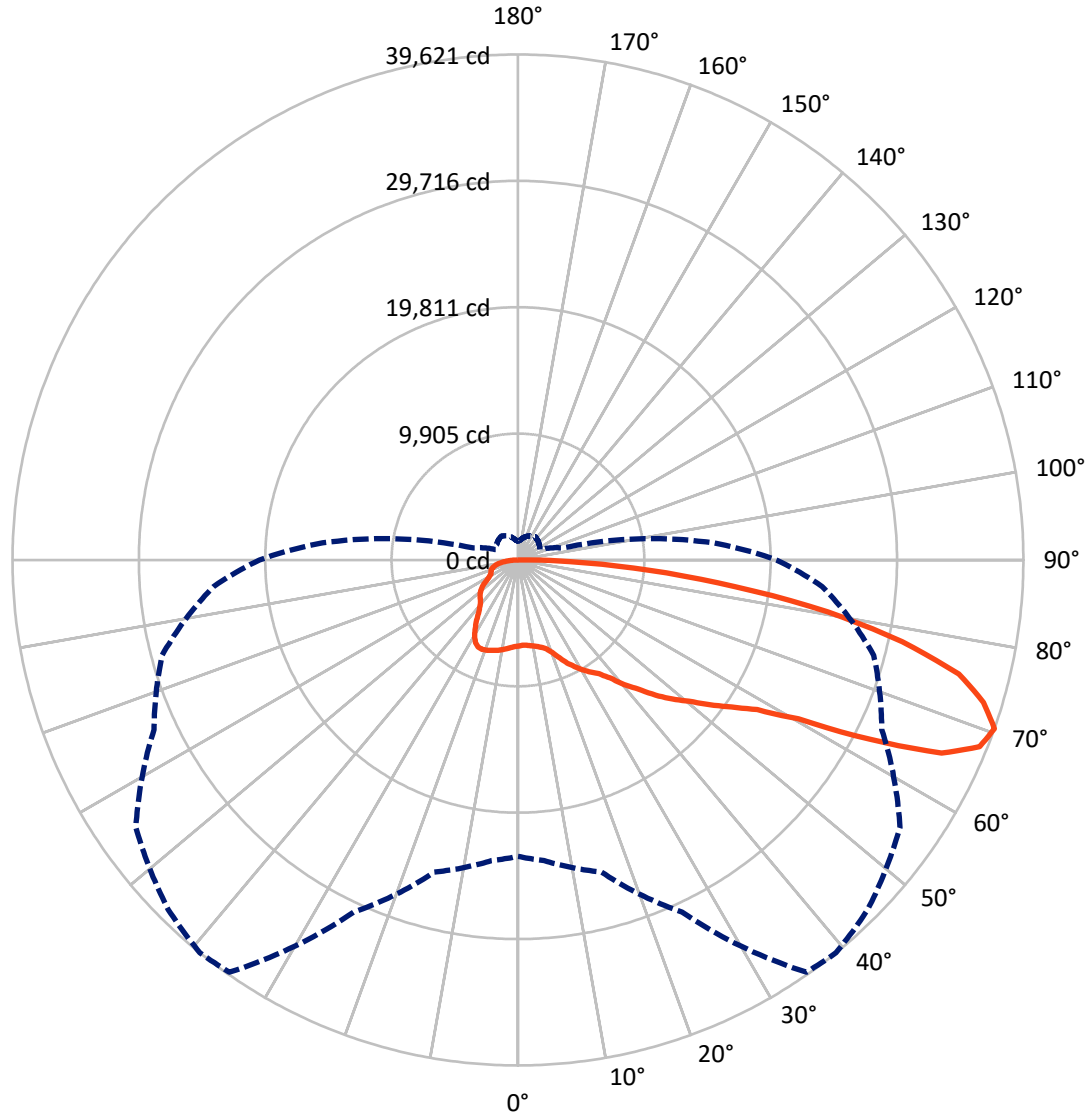
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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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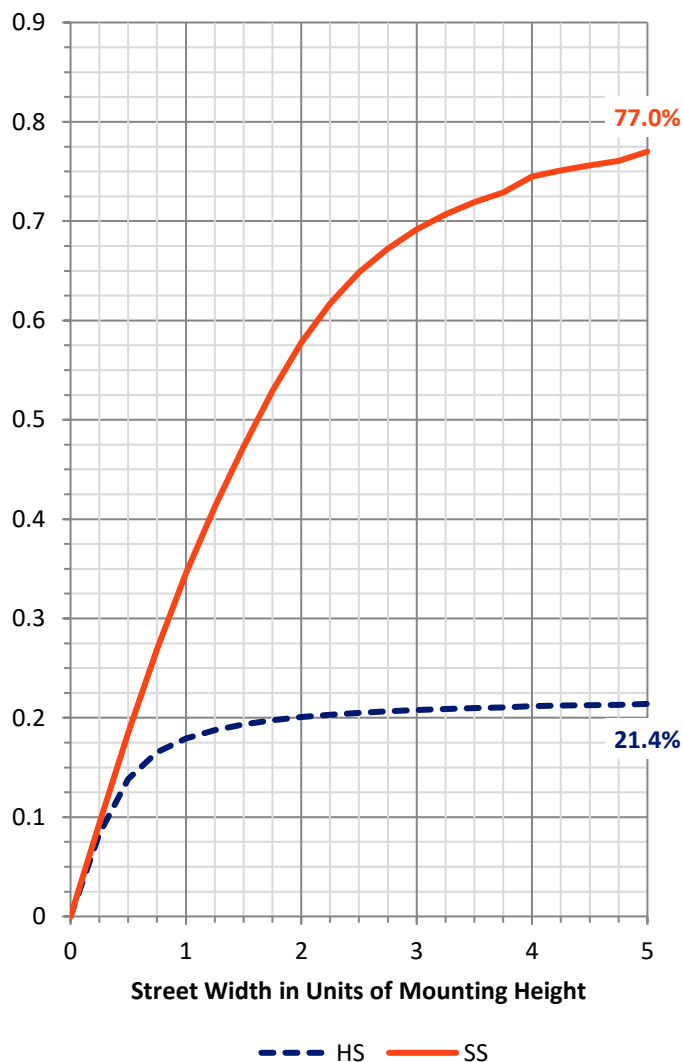
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15204.8	0.0	15204.8
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	54810.2	0.0	54810.2
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	70015.0	0.0	70015.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	655.7	0.9
10°-20°	2073.6	3.0
20°-30°	3872.3	5.5
30°-40°	6052.4	8.6
40°-50°	9270.7	13.2
50°-60°	13310.8	19.0
60°-70°	17571.0	25.1
70°-80°	13994.1	20.0
80°-90°	3214.4	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°	70015.0	100.0
0°-180°	70015.0	100.0

**Coefficient of Utilization**

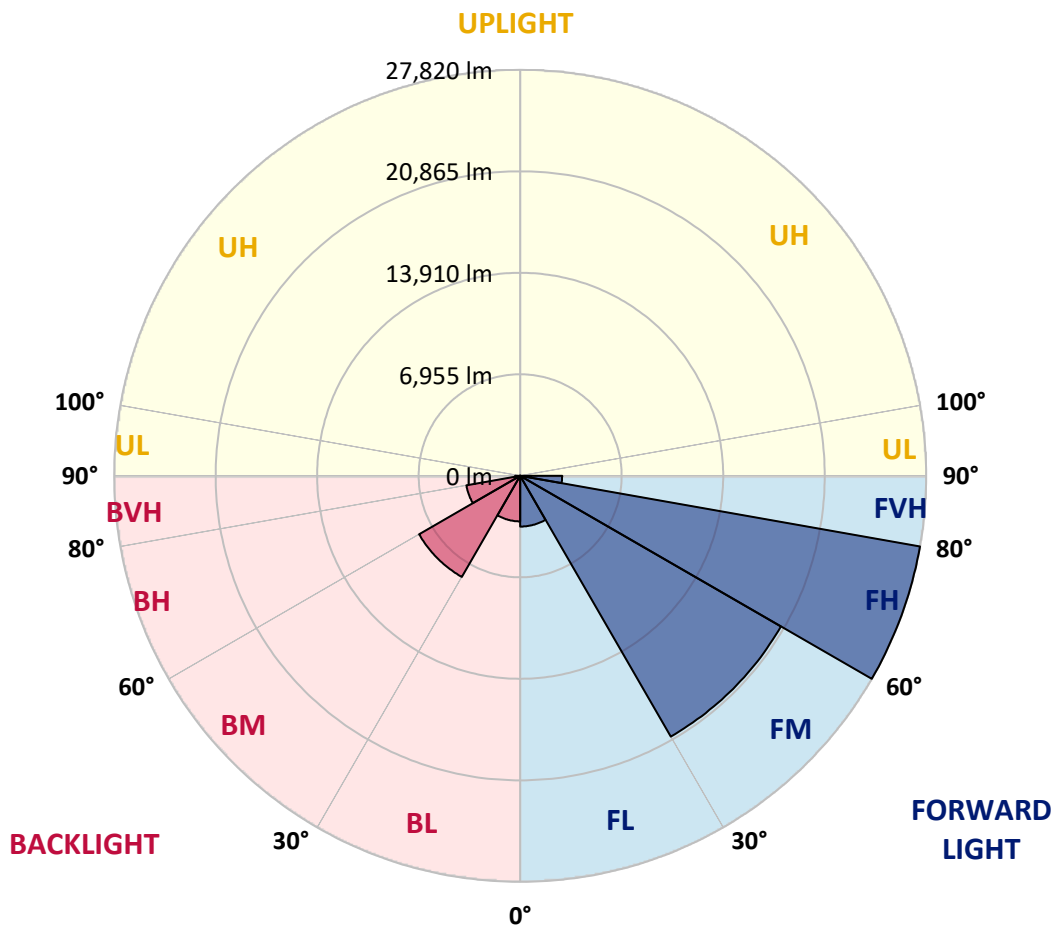


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3478.1	5.0			
FM (30°-60°)	20633.6	29.5			
FH (60°-80°)	27820.3	39.7			G5
FVH (80°-90°)	2878.2	4.1			G5
BL (0°-30°)	3123.5	4.5	B4/5000		
BM (30°-60°)	8000.3	11.4	B4/8500		
BH (60°-80°)	3744.8	5.3	B4/5000		G4/5000
BVH (80°-90°)	336.2	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°	6750.3	6750.3	6750.3	6750.3	6750.3	6750.3	6750.3	6750.3	6750.3	6750.3	6750.3
2.5°	6721.2	6718.4	6750.3	6719.8	6715.7	6693.5	6700.4	6725.4	6760.0	6753.0	6775.2
5°	6742.0	6739.2	6771.0	6728.1	6729.5	6717.1	6703.2	6733.7	6766.9	6768.3	6797.3
7.5°	6782.1	6793.2	6820.9	6783.5	6798.7	6778.0	6760.0	6797.3	6819.5	6809.8	6855.5
10°	6815.3	6822.3	6858.3	6840.3	6870.7	6863.8	6862.4	6906.7	6937.2	6908.1	6953.8
12.5°	6856.9	6872.1	6915.0	6912.2	6971.8	6969.0	6984.2	7056.2	7092.2	7065.9	7103.3
15°	6956.5	6971.8	7016.1	7027.2	7106.1	7121.3	7154.5	7247.3	7309.6	7283.3	7333.1
17.5°	7230.7	7222.4	7263.9	7261.1	7331.7	7345.6	7396.8	7518.6	7603.1	7614.1	7672.3
20°	7763.6	7780.3	7803.8	7773.3	7769.2	7756.7	7774.7	7857.8	7974.1	8037.8	8136.0
22.5°	8533.4	8489.1	8504.3	8397.7	8335.4	8328.5	8296.6	8335.4	8451.7	8538.9	8681.5
25°	9199.3	9204.8	9189.6	9055.3	8961.1	8944.5	8919.6	8950.1	9029.0	9142.5	9319.7
27.5°	9751.6	9733.6	9735.0	9582.7	9485.8	9455.4	9444.3	9614.6	9771.0	9848.5	10111.6
30°	10244.5	10200.2	10180.8	10050.7	10006.4	9985.6	9980.1	10258.3	10550.4	10763.6	11105.6
32.5°	11115.3	11072.3	10874.4	10556.0	10481.2	10475.7	10489.5	10860.5	11368.6	11760.4	12310.0
35°	12019.3	11997.1	11890.5	11494.6	11048.8	10961.6	11023.9	11509.8	12197.8	13002.2	13691.6
37.5°	13112.9	13072.8	12937.1	12448.4	11950.0	11720.2	11621.9	12136.9	13078.3	14569.3	15415.2
40°	14459.9	14329.8	14108.3	13460.4	13042.3	12830.5	12451.2	12890.0	14165.1	16431.3	17220.4
42.5°	15537.0	15501.0	15207.5	14620.5	14093.1	13837.0	13555.9	13771.9	15483.0	18337.6	19011.8
45°	16393.9	16428.5	16262.4	15747.4	15260.1	15109.2	14938.9	15268.4	17037.7	20390.6	20592.8
47.5°	17224.6	17250.9	17047.4	16683.3	16388.4	16287.3	16351.0	17068.1	18842.9	22123.9	21919.0
50°	18471.9	18369.4	17692.5	17505.6	17342.2	17390.7	17792.2	18671.2	20922.3	23800.4	23153.9
52.5°	20563.7	20176.1	18956.4	18570.2	18661.5	18837.4	19230.5	20310.4	23195.4	25116.9	24170.0
55°	23511.1	22903.3	21476.0	20178.8	20076.4	20339.4	20796.3	22010.4	25161.2	26328.3	25003.4
57.5°	25612.6	25589.0	24790.2	23602.4	22079.6	22115.6	22529.5	23632.9	26758.8	27536.9	25655.5
60°	27624.1	27759.7	28148.8	27430.3	25911.6	25277.5	24806.8	25270.6	28180.6	28499.0	26117.9
62.5°	29242.4	29344.9	30827.5	31050.4	31669.3	30982.6	28872.8	27381.8	29476.4	29099.8	26261.8
65°	29189.8	29171.8	31235.9	32816.9	35978.9	36499.4	35148.2	30212.9	31062.9	29408.6	26083.3
67.5°	26840.5	26778.2	28791.1	32617.6	38701.9	39037.0	38252.0	34654.0	31586.2	29364.3	25454.7
70°	23231.4	23656.4	25324.6	30444.1	39444.0	39621.2	38765.6	36560.3	31467.1	28875.6	23944.4
72.5°	19410.5	19540.6	21488.5	26703.5	38112.2	38166.2	37576.4	36132.5	30675.3	27729.3	20951.3
75°	15272.6	15220.0	17044.6	21561.8	34760.6	35704.7	35452.8	34720.4	28937.9	24469.1	16018.8
77.5°	10724.9	10654.2	12513.5	16644.5	28691.4	30806.8	32210.6	31577.9	24696.1	18366.7	8839.3
80°	5393.6	5832.4	7731.8	11885.0	22363.4	24628.3	26120.6	25043.6	17854.5	10205.7	2653.9
82.5°	1949.2	2032.3	3714.3	7337.3	15679.6	17130.4	18498.2	16744.2	8825.5	2557.0	548.2
85°	935.8	974.6	1521.4	3784.9	9580.0	10333.1	10873.0	7164.2	1646.0	490.1	310.1
87.5°	441.6	463.8	692.2	1509.0	3967.7	4119.9	3868.0	2083.5	288.0	185.5	128.7
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°	6750.3	6750.3	6750.3	6750.3	6750.3	6750.3	6750.3	6750.3	6750.3	6750.3	6750.3
2.5°	6766.9	6778.0	6796.0	6772.4	6760.0	6771.0	6797.3	6794.6	6811.2	6818.1	6804.3
5°	6794.6	6809.8	6837.5	6832.0	6830.6	6859.6	6894.3	6909.5	6930.2	6933.0	6913.6
7.5°	6852.7	6873.5	6906.7	6920.6	6941.3	6969.0	7017.5	7021.6	7049.3	7043.8	7031.3
10°	6962.1	6989.8	7042.4	7067.3	7072.8	7095.0	7131.0	7124.1	7132.4	7128.2	7108.8
12.5°	7113.0	7146.2	7221.0	7268.0	7252.8	7237.6	7219.6	7185.0	7168.4	7155.9	7137.9
15°	7346.9	7402.3	7490.9	7493.7	7434.2	7355.3	7297.1	7193.3	7128.2	7089.5	7059.0
17.5°	7722.1	7769.2	7895.2	7810.7	7669.5	7510.3	7335.9	7118.5	6944.1	6833.3	6787.7
20°	8176.2	8268.9	8388.0	8209.4	7971.3	7683.4	7369.1	6998.1	6629.8	6389.0	6339.1
22.5°	8765.9	8875.3	8872.5	8584.6	8246.8	7814.9	7376.0	6826.4	6243.6	5784.0	5714.8
25°	9460.9	9508.0	9347.4	8896.1	8403.2	7846.7	7273.6	6539.8	5691.2	5151.3	5112.5
27.5°	10150.3	10151.7	9769.6	9127.3	8414.3	7733.2	7017.5	6041.5	5116.7	4701.4	4655.7
30°	11075.1	10857.8	10160.0	9231.1	8292.5	7450.8	6514.9	5408.8	4633.5	4266.7	4222.4
32.5°	12087.1	11684.2	10496.4	9200.6	8029.4	6992.5	5857.3	4864.7	4245.9	3880.4	3844.4
35°	13331.7	12664.4	10842.5	9062.2	7544.9	6395.9	5234.4	4459.1	3935.8	3533.0	3465.1
37.5°	14868.3	13985.1	11286.9	8825.5	7011.9	5648.3	4713.8	4106.1	3639.6	3184.1	3087.2
40°	16565.6	15369.5	11861.4	8577.7	6408.3	5116.7	4340.1	3898.4	3451.3	2952.9	2860.1
42.5°	18156.2	16845.2	12599.3	8311.9	5857.3	4687.5	4180.9	3872.1	3398.7	2887.8	2778.5
45°	19668.0	18127.2	13352.4	7968.5	5281.4	4358.1	4114.4	3833.4	3353.0	2843.5	2728.6
47.5°	20868.3	19255.5	14037.7	7608.6	4773.4	4121.3	4014.7	3696.3	3245.0	2764.6	2660.8
50°	21971.6	20133.2	14567.9	7284.6	4312.4	3935.8	3827.8	3473.4	3040.1	2653.9	2563.9
52.5°	22828.6	20828.1	14865.6	7247.3	3865.2	3694.9	3566.2	3217.3	2851.8	2500.2	2413.0
55°	23426.6	21311.3	14904.3	7065.9	3479.0	3382.1	3235.3	2994.4	2752.2	2447.6	2372.8
57.5°	23811.5	21496.8	14646.8	5972.2	3080.3	2957.1	2894.8	2833.8	2658.0	2347.9	2291.2
60°	24010.8	21363.9	14032.2	4395.4	2688.5	2551.4	2655.3	2653.9	2512.7	2203.9	2156.9
62.5°	23936.1	20972.1	12802.8	3153.6	2331.3	2341.0	2455.9	2436.5	2234.4	1945.1	1891.1
65°	23393.4	20094.4	10712.4	2278.7	2165.2	2277.3	2367.3	2269.0	2011.5	1734.6	1700.0
67.5°	22225.0	18402.7	7484.0	2019.8	2122.3	2248.2	2336.8	2185.9	1920.1	1629.4	1597.6
70°	20267.4	15370.9	3620.2	1914.6	2043.4	2188.7	2273.2	2101.5	1838.5	1532.5	1484.1
72.5°	16607.1	10691.6	1500.7	1801.1	1946.4	2050.3	2176.3	2008.7	1709.7	1371.9	1333.2
75°	10414.8	5180.4	1245.9	1669.6	1796.9	1899.4	2025.4	1830.2	1485.4	1061.8	1028.6
77.5°	4535.3	1219.6	1174.0	1504.8	1666.8	1730.5	1837.1	1741.6	1360.9	933.1	908.2
80°	877.7	765.6	1113.0	1250.1	1434.2	1521.4	1576.8	1514.5	1146.3	711.6	593.9
82.5°	501.1	654.8	969.1	931.7	1133.8	1124.1	1229.3	1239.0	915.1	346.1	310.1
85°	340.6	551.0	650.7	575.9	663.1	681.1	890.2	866.6	623.0	207.7	167.5
87.5°	160.6	167.5	216.0	196.6	261.6	379.3	515.0	461.0	272.7	117.7	99.7
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)