

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: P622510

Luminaire Tested: **PRV-M-C250-D-U-T4-BZ-7030**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622510  
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-7030  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

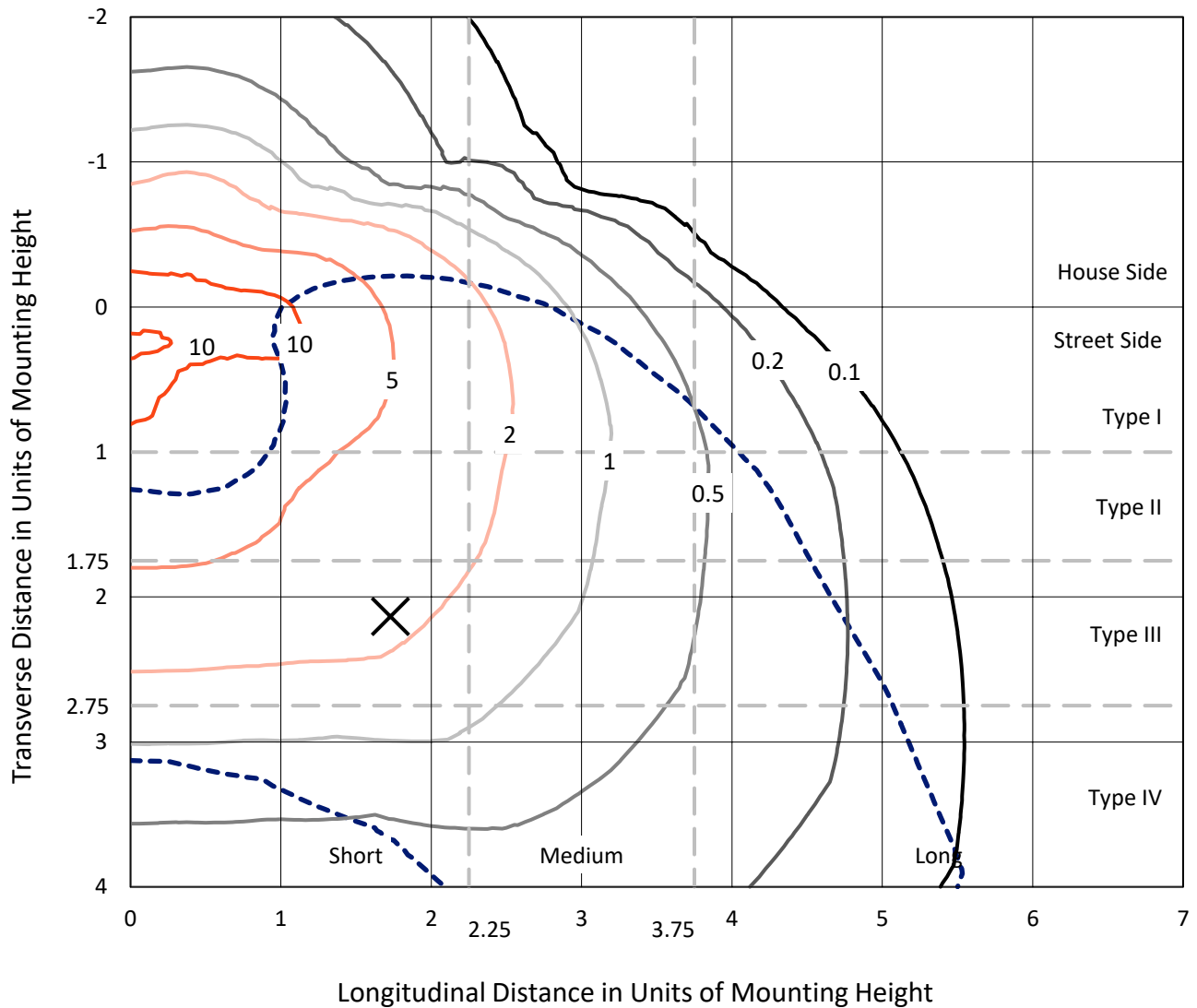
Lumens per Lamp: N/A  
Luminaire Lumens: 67510 lumens  
Efficiency: N/A  
Efficacy: 138.7 lumens/watt  
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 486.6  
Input Voltage (V): NR  
Input Current (Ain): 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

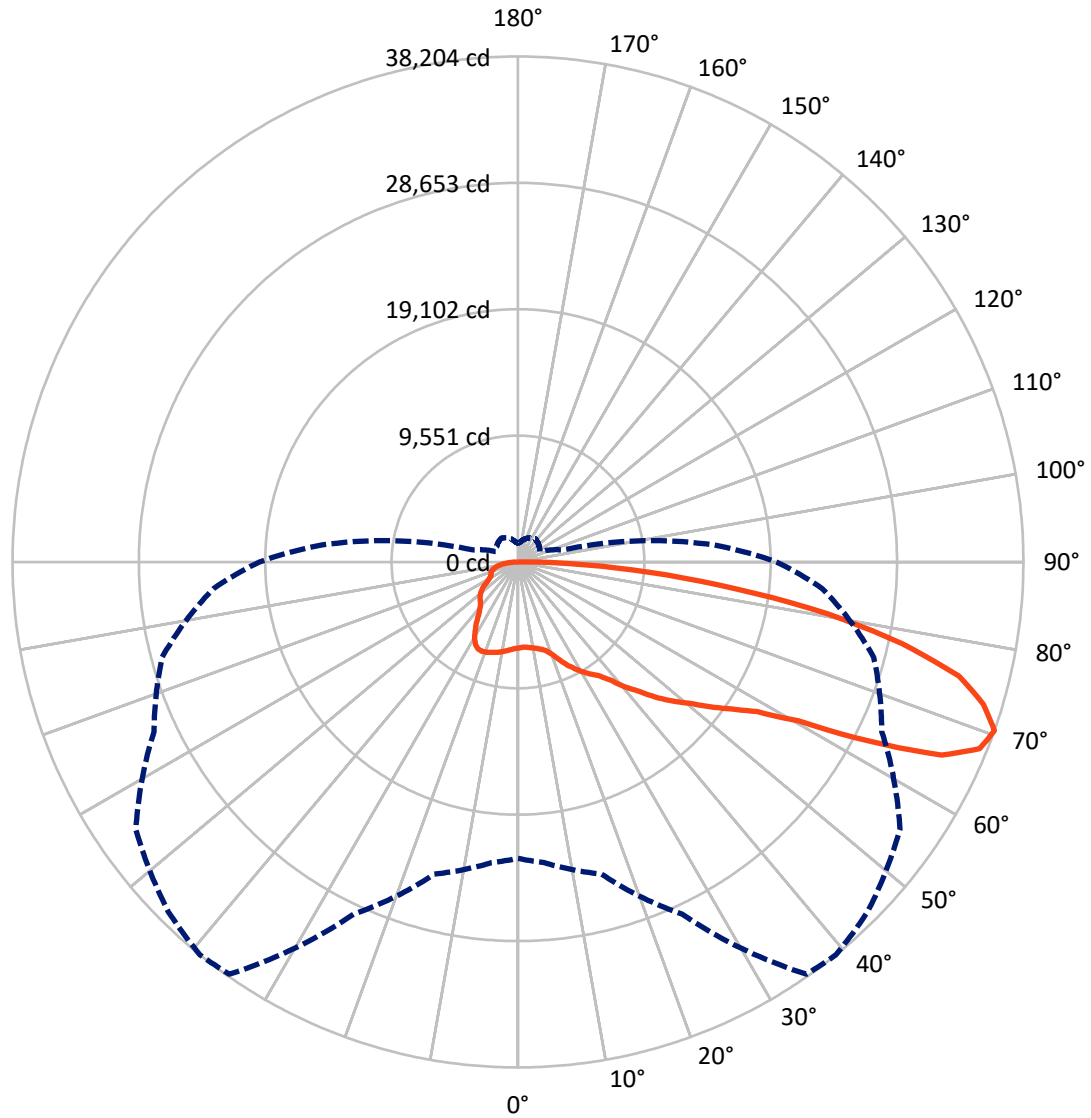
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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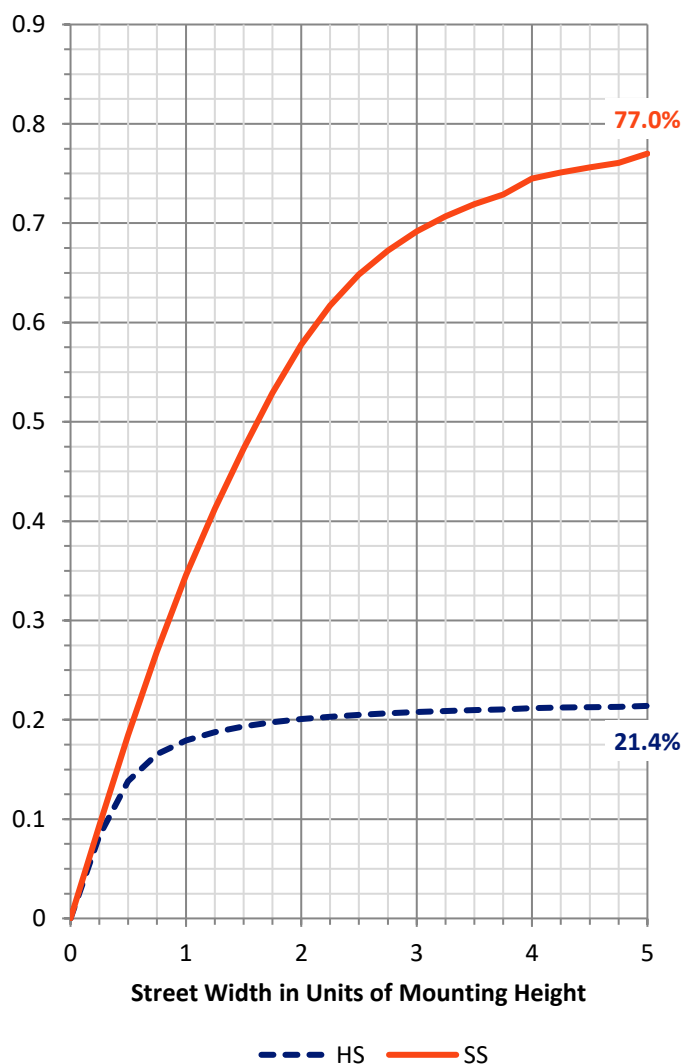
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14660.8	0.0	14660.8
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	52849.2	0.0	52849.2
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	67510.0	0.0	67510.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	632.2	0.9
10°-20°	1999.4	3.0
20°-30°	3733.7	5.5
30°-40°	5835.9	8.6
40°-50°	8939.1	13.2
50°-60°	12834.5	19.0
60°-70°	16942.4	25.1
70°-80°	13493.4	20.0
80°-90°	3099.4	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°	67510.0	100.0
0°-180°	67510.0	100.0

**Coefficient of Utilization**

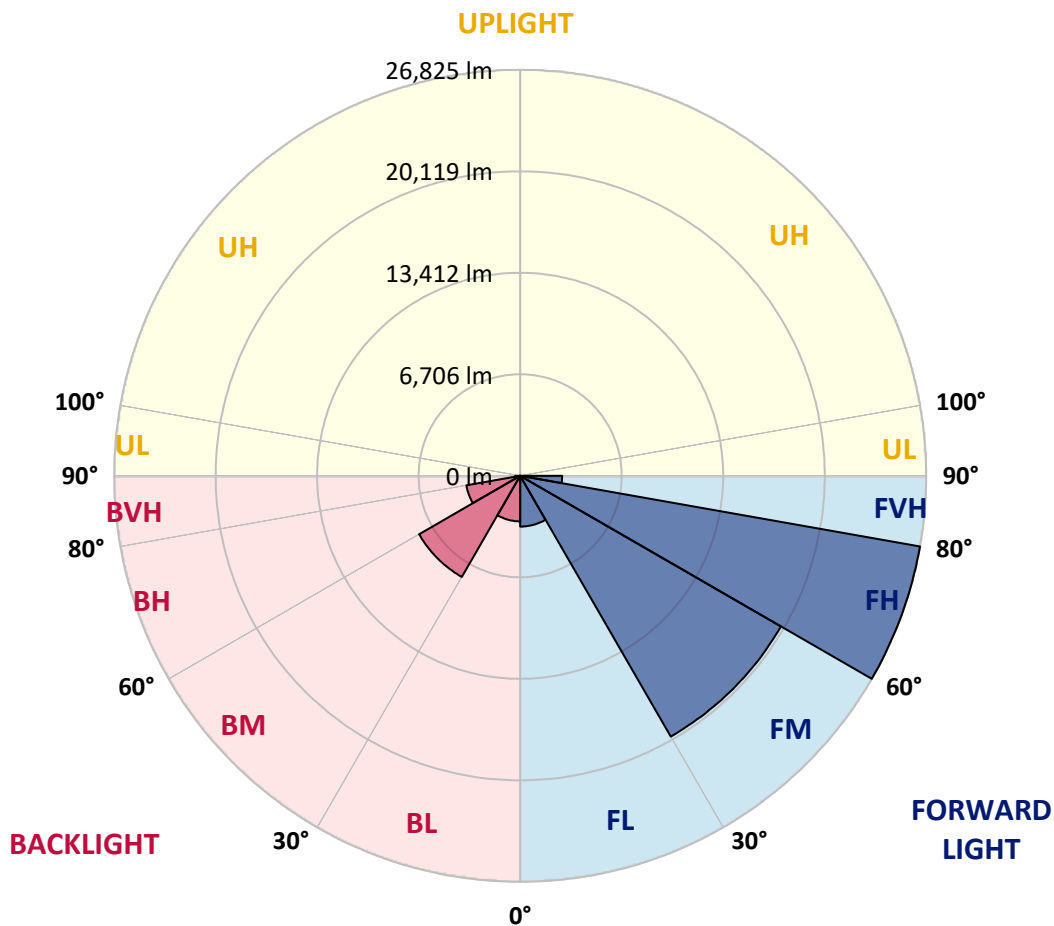


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3353.6	5.0			
FM (30°-60°)	19895.4	29.5			
FH (60°-80°)	26825.0	39.7			G5
FVH (80°-90°)	2775.2	4.1			G5
BL (0°-30°)	3011.7	4.5	B4/5000		
BM (30°-60°)	7714.1	11.4	B4/8500		
BH (60°-80°)	3610.9	5.3	B4/5000		G4/5000
BVH (80°-90°)	324.2	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°	6508.8	6508.8	6508.8	6508.8	6508.8	6508.8	6508.8	6508.8	6508.8	6508.8	6508.8
2.5°	6480.7	6478.1	6508.8	6479.4	6475.4	6454.0	6460.7	6484.7	6518.1	6511.4	6532.8
5°	6500.8	6498.1	6528.8	6487.4	6488.7	6476.7	6463.4	6492.7	6524.8	6526.1	6554.1
7.5°	6539.5	6550.1	6576.8	6540.8	6555.5	6535.5	6518.1	6554.1	6575.5	6566.2	6610.2
10°	6571.5	6578.2	6612.9	6595.5	6624.9	6618.2	6616.9	6659.6	6689.0	6660.9	6705.0
12.5°	6611.5	6626.2	6667.6	6664.9	6722.3	6719.7	6734.4	6803.8	6838.5	6813.1	6849.2
15°	6707.7	6722.3	6765.1	6775.7	6851.8	6866.5	6898.5	6988.0	7048.0	7022.7	7070.7
17.5°	6972.0	6963.9	7004.0	7001.3	7069.4	7082.8	7132.1	7249.6	7331.0	7341.7	7397.8
20°	7485.9	7501.9	7524.6	7495.2	7491.2	7479.2	7496.6	7576.6	7688.8	7750.2	7845.0
22.5°	8228.1	8185.3	8200.0	8097.2	8037.2	8030.5	7999.8	8037.2	8149.3	8233.4	8370.9
25°	8870.1	8875.5	8860.8	8731.3	8640.5	8624.5	8600.5	8629.9	8705.9	8815.4	8986.3
27.5°	9402.7	9385.4	9386.7	9239.9	9146.4	9117.1	9106.4	9270.6	9421.4	9496.2	9749.8
30°	9877.9	9835.2	9816.5	9691.1	9648.3	9628.3	9623.0	9891.3	10172.9	10378.5	10708.2
32.5°	10717.6	10676.2	10485.3	10178.3	10106.2	10100.9	10114.2	10472.0	10961.8	11339.6	11869.6
35°	11589.2	11567.9	11465.1	11083.3	10653.5	10569.4	10629.5	11098.0	11761.4	12537.0	13201.7
37.5°	12643.8	12605.1	12474.2	12003.0	11522.5	11300.9	11206.1	11702.7	12610.4	14048.0	14863.6
40°	13942.6	13817.1	13603.5	12978.8	12575.7	12371.5	12005.7	12428.9	13658.3	15843.4	16604.3
42.5°	14981.1	14946.4	14663.4	14097.4	13588.8	13341.9	13070.9	13279.2	14929.0	17681.5	18331.6
45°	15807.4	15840.8	15680.6	15184.0	14714.1	14568.6	14404.4	14722.1	16428.1	19661.1	19856.0
47.5°	16608.3	16633.7	16437.4	16086.4	15802.0	15704.6	15766.0	16457.5	18168.7	21332.4	21134.8
50°	17811.0	17712.2	17059.5	16879.3	16721.8	16768.5	17155.6	18003.2	20173.7	22948.9	22325.5
52.5°	19828.0	19454.2	18278.2	17905.8	17993.9	18163.4	18542.5	19583.7	22365.5	24218.3	23305.3
55°	22669.9	22083.9	20707.6	19456.9	19358.1	19611.7	20052.2	21222.9	24261.0	25386.3	24108.9
57.5°	24696.2	24673.5	23903.3	22758.0	21289.6	21324.3	21723.5	22787.3	25801.5	26551.6	24737.6
60°	26635.7	26766.6	27141.7	26448.9	24984.5	24373.2	23919.3	24366.5	27172.4	27479.4	25183.4
62.5°	28196.2	28295.0	29724.6	29939.5	30536.2	29874.1	27839.8	26402.1	28421.8	28058.7	25322.2
65°	28145.5	28128.1	30118.4	31642.8	34691.6	35193.5	33890.7	29131.9	29951.5	28356.4	25150.0
67.5°	25880.2	25820.1	27761.0	31450.6	37317.3	37640.3	36883.4	33414.1	30456.1	28313.7	24544.0
70°	22400.2	22810.0	24418.5	29354.8	38032.8	38203.6	37378.7	35252.2	30341.3	27842.5	23087.7
72.5°	18716.0	18841.5	20719.7	25748.1	36748.6	36800.7	36232.0	34839.8	29577.8	26737.2	20201.7
75°	14726.1	14675.4	16434.8	20790.4	33516.9	34427.3	34184.4	33478.2	27902.5	23593.6	15445.6
77.5°	10341.1	10273.1	12065.8	16049.0	27664.9	29704.6	31058.1	30448.1	23812.5	17709.6	8523.1
80°	5200.6	5623.8	7455.2	11459.7	21563.3	23747.1	25186.1	24147.6	17215.7	9840.6	2558.9
82.5°	1879.5	1959.6	3581.4	7074.7	15118.6	16517.5	17836.4	16145.1	8509.7	2465.5	528.6
85°	902.4	939.7	1467.0	3649.5	9237.2	9963.4	10484.0	6907.9	1587.1	472.5	299.0
87.5°	425.8	447.2	667.4	1455.0	3825.7	3972.5	3729.6	2009.0	277.7	178.9	124.1
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°	6508.8	6508.8	6508.8	6508.8	6508.8	6508.8	6508.8	6508.8	6508.8	6508.8	6508.8
2.5°	6524.8	6535.5	6552.8	6530.1	6518.1	6528.8	6554.1	6551.5	6567.5	6574.2	6560.8
5°	6551.5	6566.2	6592.9	6587.5	6586.2	6614.2	6647.6	6662.3	6682.3	6685.0	6666.3
7.5°	6607.5	6627.6	6659.6	6673.0	6693.0	6719.7	6766.4	6770.4	6797.1	6791.8	6779.7
10°	6713.0	6739.7	6790.4	6814.4	6819.8	6841.1	6875.8	6869.2	6877.2	6873.2	6854.5
12.5°	6858.5	6890.5	6962.6	7008.0	6993.3	6978.6	6961.3	6927.9	6911.9	6899.9	6882.5
15°	7084.1	7137.5	7222.9	7225.6	7168.2	7092.1	7036.0	6935.9	6873.2	6835.8	6806.4
17.5°	7445.8	7491.2	7612.7	7531.3	7395.1	7241.6	7073.4	6863.8	6695.6	6588.9	6544.8
20°	7883.7	7973.1	8087.9	7915.7	7686.1	7408.5	7105.4	6747.7	6392.6	6160.4	6112.3
22.5°	8452.3	8557.8	8555.1	8277.4	7951.7	7535.3	7112.1	6582.2	6020.2	5577.0	5510.3
25°	9122.4	9167.8	9013.0	8577.8	8102.6	7566.0	7013.3	6305.9	5487.6	4967.0	4929.6
27.5°	9787.2	9788.5	9420.1	8800.7	8113.3	7456.5	6766.4	5825.3	4933.6	4533.2	4489.1
30°	10678.9	10469.3	9796.5	8900.8	7995.8	7184.2	6281.8	5215.3	4467.8	4114.0	4071.3
32.5°	11654.6	11266.2	10120.9	8871.5	7742.2	6742.4	5647.8	4690.7	4094.0	3741.6	3706.9
35°	12854.7	12211.3	10454.6	8738.0	7275.0	6167.0	5047.1	4299.6	3795.0	3406.6	3341.1
37.5°	14336.4	13484.7	10883.1	8509.7	6761.1	5446.2	4545.2	3959.2	3509.3	3070.2	2976.7
40°	15972.9	14819.6	11437.1	8270.8	6179.1	4933.6	4184.8	3759.0	3327.8	2847.3	2757.8
42.5°	17506.7	16242.5	12148.5	8014.5	5647.8	4519.8	4031.3	3733.6	3277.1	2784.5	2679.1
45°	18964.3	17478.6	12874.7	7683.4	5092.5	4202.1	3967.2	3696.2	3233.0	2741.8	2631.0
47.5°	20121.6	18566.5	13535.5	7336.4	4602.6	3973.9	3871.1	3564.1	3128.9	2665.7	2565.6
50°	21185.5	19412.8	14046.7	7024.0	4158.1	3795.0	3690.9	3349.2	2931.3	2558.9	2472.2
52.5°	22011.8	20082.9	14333.7	6988.0	3726.9	3562.7	3438.6	3102.2	2749.8	2410.8	2326.7
55°	22588.5	20548.8	14371.1	6813.1	3354.5	3261.1	3119.6	2887.3	2653.7	2360.0	2287.9
57.5°	22959.5	20727.7	14122.8	5758.6	2970.1	2851.3	2791.2	2732.5	2562.9	2263.9	2209.2
60°	23151.8	20599.5	13530.1	4238.2	2592.3	2460.1	2560.3	2558.9	2422.8	2125.1	2079.7
62.5°	23079.7	20221.8	12344.8	3040.8	2247.9	2257.2	2368.0	2349.3	2154.5	1875.5	1823.4
65°	22556.4	19375.5	10329.1	2197.2	2087.7	2195.8	2282.6	2187.8	1939.5	1672.6	1639.2
67.5°	21429.8	17744.3	7216.2	1947.6	2046.3	2167.8	2253.2	2107.7	1851.4	1571.1	1540.4
70°	19542.3	14820.9	3490.7	1846.1	1970.2	2110.4	2191.8	2026.3	1772.7	1477.7	1431.0
72.5°	16012.9	10309.1	1447.0	1736.6	1876.8	1976.9	2098.4	1936.9	1648.5	1322.8	1285.5
75°	10042.1	4995.0	1201.4	1609.8	1732.6	1831.4	1952.9	1764.7	1432.3	1023.8	991.8
77.5°	4373.0	1176.0	1132.0	1451.0	1607.2	1668.6	1771.4	1679.3	1312.2	899.7	875.7
80°	846.3	738.2	1073.2	1205.4	1382.9	1467.0	1520.4	1460.3	1105.3	686.1	572.7
82.5°	483.2	631.4	934.4	898.4	1093.2	1083.9	1185.4	1194.7	882.3	333.7	299.0
85°	328.4	531.3	627.4	555.3	639.4	656.7	858.3	835.6	600.7	200.2	161.5
87.5°	154.8	161.5	208.2	189.5	252.3	365.8	496.6	444.5	263.0	113.5	96.1
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)