

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: P622490

Luminaire Tested: **PRV-M-C250-D-U-T2-BZ-7050**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-1)
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-T2-BZ-7050
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69702 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

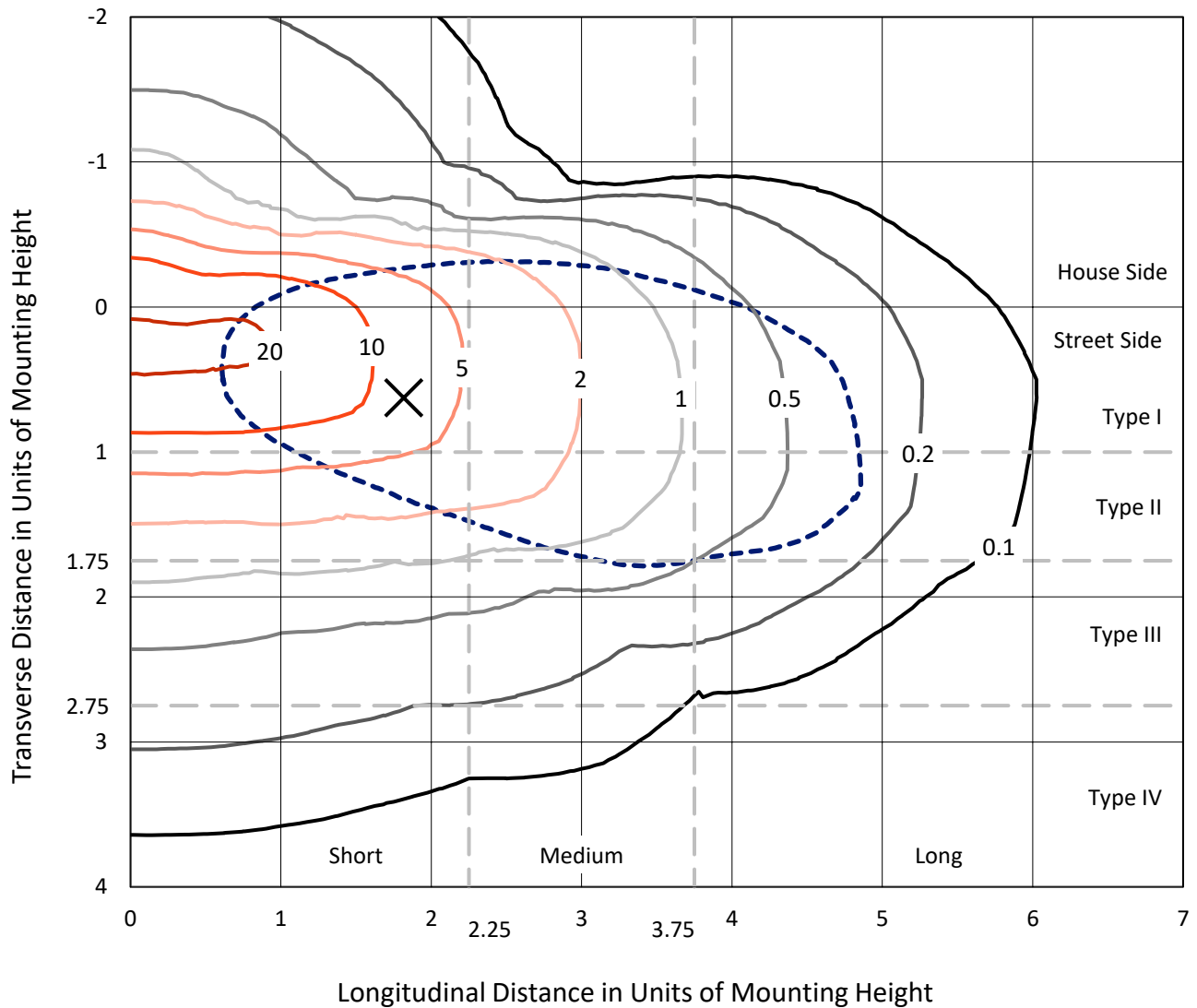
Input Watts (W): 486.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

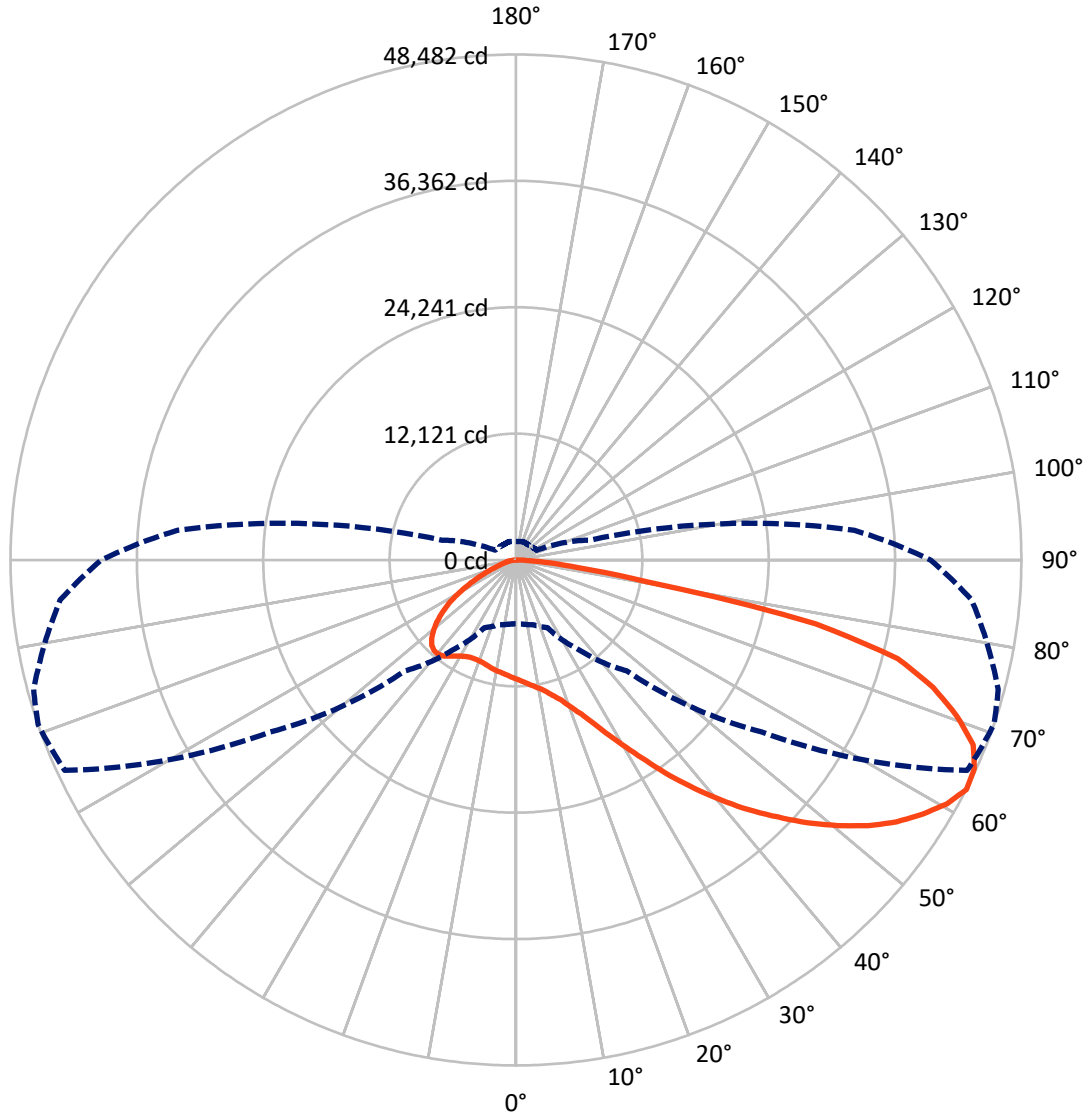
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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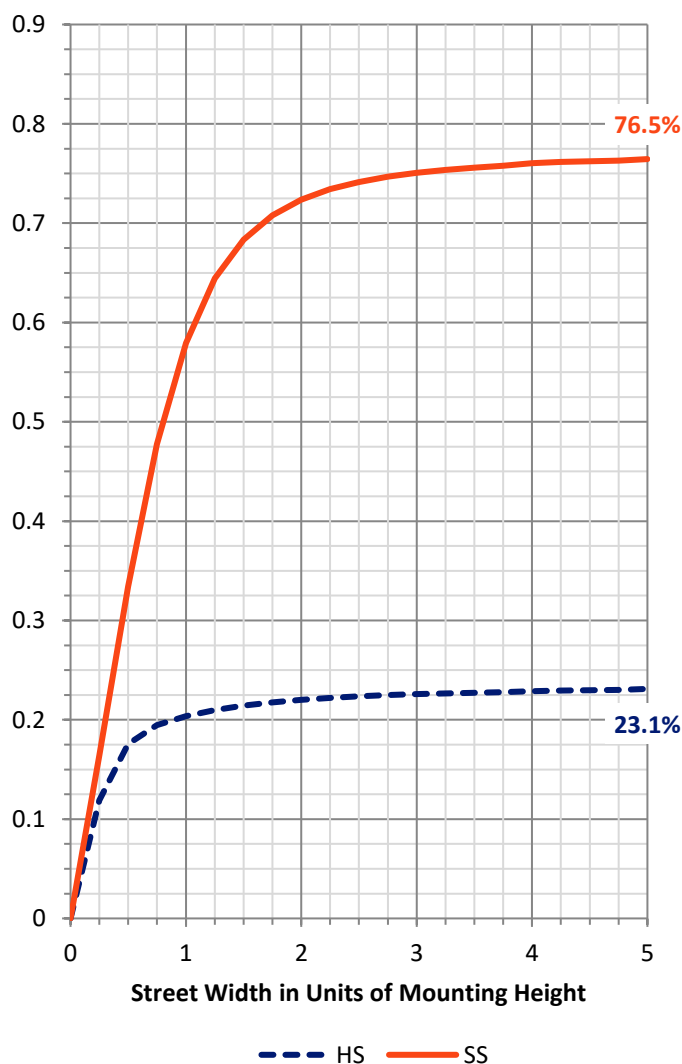
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16392.9	0.0	16392.9
	% Fixture	23.5	0.0	23.5
Street Side	Lumens	53309.1	0.0	53309.1
	% Fixture	76.5	0.0	76.5
Total	Lumens	69702.0	0.0	69702.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1105.3	1.6
10°-20°	3387.8	4.9
20°-30°	5866.8	8.4
30°-40°	8733.3	12.5
40°-50°	11753.0	16.9
50°-60°	13908.3	20.0
60°-70°	14101.7	20.2
70°-80°	9412.8	13.5
80°-90°	1433.0	2.1
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°	69702.0	100.0
0°-180°	69702.0	100.0

Coefficient of Utilization

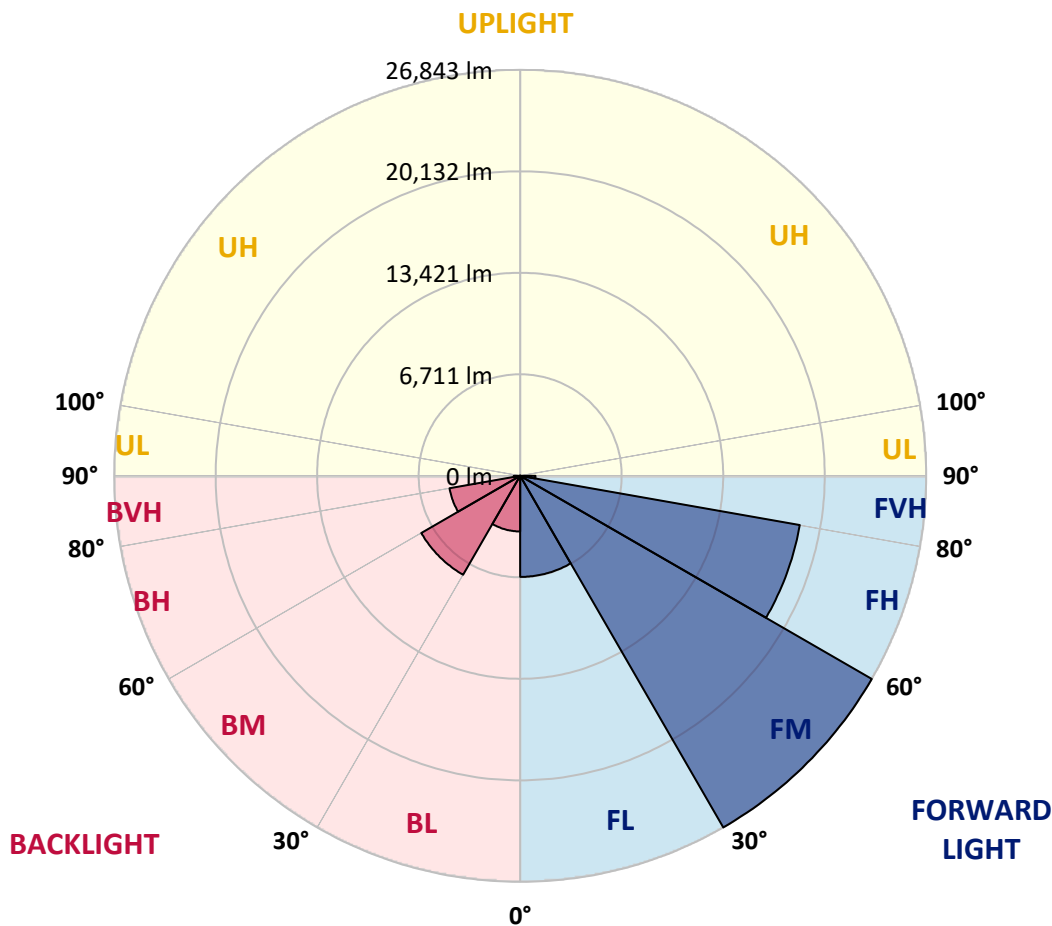


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6682.1	9.6			
FM (30°-60°)	26842.8	38.5			
FH (60°-80°)	18771.5	26.9			G5
FVH (80°-90°)	1012.6	1.5			G5
BL (0°-30°)	3677.8	5.3	B4/5000		
BM (30°-60°)	7551.8	10.8	B4/8500		
BH (60°-80°)	4743.0	6.8	B4/5000		G4/5000
BVH (80°-90°)	420.3	0.6			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	11428.1	11428.1	11428.1	11428.1	11428.1	11428.1	11428.1	11428.1	11428.1	11428.1	11428.1
2.5°	12039.9	12015.0	12067.6	12039.9	11981.8	11880.7	11808.8	11747.8	11653.7	11613.6	11536.0
5°	12737.7	12748.7	12801.4	12680.9	12575.7	12393.0	12242.1	12084.2	11925.0	11825.4	11632.9
7.5°	13454.8	13479.7	13483.9	13374.5	13202.8	12984.1	12718.3	12476.0	12218.5	12093.9	11778.3
10°	14076.4	14095.8	14081.9	14022.4	13839.6	13548.9	13234.7	12867.8	12539.7	12359.7	11923.7
12.5°	14674.4	14714.6	14670.3	14567.8	14378.2	14090.2	13794.0	13349.6	12964.7	12721.1	12100.9
15°	15319.5	15298.8	15230.9	15087.0	14945.8	14709.0	14368.5	13965.6	13517.1	13193.1	12405.4
17.5°	15833.1	15880.2	15842.8	15709.9	15539.7	15308.5	15082.8	14656.4	14151.1	13846.6	12863.7
20°	16305.2	16339.8	16316.3	16251.2	16209.7	16061.6	15874.7	15517.5	15037.1	14638.4	13452.0
22.5°	16638.9	16691.5	16784.2	16860.4	16919.9	16888.0	16813.3	16607.0	16063.0	15715.5	14259.1
25°	16829.9	16882.5	17138.6	17416.9	17706.2	17876.5	17962.3	17934.6	17371.2	17044.5	15402.6
27.5°	16943.4	17008.5	17364.3	17875.1	18426.1	18860.8	19260.9	19391.0	19020.0	18703.0	16782.8
30°	16976.6	17047.2	17461.2	18156.1	19080.9	19910.1	20566.3	21097.9	20846.0	20434.8	18482.8
32.5°	16781.4	16853.4	17315.8	18297.3	19595.9	20934.6	21884.3	22872.7	22973.8	22594.5	20541.4
35°	16254.0	16352.3	16965.6	18251.7	20079.0	21957.6	23162.1	24745.8	25367.4	25047.6	22619.4
37.5°	15595.0	15637.9	16434.0	17967.9	20328.2	22778.6	24603.2	27005.1	27784.5	27521.5	24856.5
40°	14835.0	14868.2	15751.5	17472.3	20393.3	23461.1	25953.0	29163.3	30240.4	29783.5	26935.9
42.5°	13835.5	14039.0	14912.5	16841.0	20241.0	23967.8	27198.9	31730.0	32765.5	32431.9	28912.8
45°	12966.1	13027.0	13915.8	15849.8	19799.4	24358.2	28347.9	33965.7	35154.9	34806.1	31368.7
47.5°	12117.5	12117.5	12956.4	14727.0	18956.3	24506.3	29479.0	36284.6	37664.8	37262.0	33528.3
50°	9845.7	10288.7	11955.5	13767.7	17666.1	24244.6	30661.2	38712.8	40047.3	39650.0	35509.3
52.5°	8147.1	8198.3	9669.9	12697.5	16241.5	23423.7	31659.4	41326.5	42323.2	41723.8	37513.9
55°	7488.1	7510.3	8105.5	11102.7	14938.8	22032.4	32213.1	43526.3	44327.8	43655.0	39335.8
57.5°	7053.4	7106.0	7388.4	8930.6	13568.3	19901.8	32339.1	45582.1	45980.8	45231.8	40974.9
60°	6505.2	6545.3	6978.7	7831.4	12037.2	17181.5	31533.4	47136.7	47498.1	46787.9	42554.4
62.5°	6119.0	6156.3	6429.1	7158.6	10493.6	15024.7	28757.7	47759.7	48482.4	47888.5	43869.6
65°	5673.2	5727.2	5986.1	6638.1	9387.5	13489.4	26322.6	46918.0	48313.5	48144.6	44592.2
67.5°	5158.2	5198.3	5468.3	6023.4	8219.1	12315.4	23618.9	45522.5	47301.5	47362.4	44064.8
70°	4614.1	4628.0	4895.2	5336.8	6751.6	10888.1	19529.4	43191.3	44867.7	44858.0	41743.2
72.5°	3944.1	3992.6	4261.1	4670.9	5648.3	9131.4	15283.5	39086.6	41859.5	42032.5	37994.3
75°	3265.8	3308.7	3531.6	3917.8	4618.3	7395.4	10853.5	31361.7	37818.5	38291.9	32984.2
77.5°	1992.1	2075.2	2233.0	2663.5	3538.5	5810.2	6930.2	18660.0	29380.7	31145.8	26155.1
80°	881.8	1215.5	1579.6	1813.5	2151.3	3924.7	3773.8	8363.0	12758.4	17279.8	16737.1
82.5°	271.3	348.9	989.8	1165.6	1284.7	1641.9	1749.9	4144.8	5891.9	6699.0	7593.3
85°	114.9	146.7	409.8	535.8	575.9	433.3	685.3	1863.4	2763.2	3137.0	2952.9
87.5°	30.5	34.6	110.8	155.1	159.2	138.4	178.6	627.1	924.8	1078.4	934.5
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°	11428.1	11428.1	11428.1	11428.1	11428.1	11428.1	11428.1	11428.1	11428.1	11428.1	11428.1
2.5°	11480.7	11401.7	11306.2	11173.3	11070.9	10976.7	10940.8	10836.9	10800.9	10810.6	10794.0
5°	11512.5	11385.1	11156.7	10924.1	10717.9	10551.7	10456.2	10333.0	10312.2	10310.9	10247.2
7.5°	11594.2	11403.1	11046.0	10713.7	10427.1	10198.7	10036.8	9896.9	9867.9	9865.1	9818.0
10°	11671.7	11411.4	10969.8	10550.4	10153.0	9842.9	9624.2	9463.6	9395.8	9358.4	9303.0
12.5°	11778.3	11435.0	10879.8	10363.5	9890.0	9488.5	9226.9	9010.9	8922.3	8843.4	8831.0
15°	11987.3	11536.0	10784.3	10110.1	9595.1	9092.6	8749.3	8540.2	8441.9	8342.3	8286.9
17.5°	12314.1	11734.0	10728.9	9863.7	9221.4	8666.2	8234.3	8018.3	7846.7	7763.6	7729.0
20°	12730.8	12041.3	10741.4	9628.4	8808.8	8196.9	7658.4	7402.3	7184.9	7139.2	7076.9
22.5°	13382.8	12499.6	10842.5	9423.5	8436.4	7672.2	7078.3	6682.4	6419.4	6380.6	6377.8
25°	14281.3	13157.1	11000.3	9215.8	7961.6	7110.2	6393.1	5898.8	5628.9	5530.6	5536.1
27.5°	15489.8	14123.4	11310.4	9028.9	7446.6	6344.6	5515.4	5059.9	4784.4	4697.2	4666.7
30°	16926.8	15271.1	11779.7	8829.6	6836.1	5415.7	4634.9	4247.3	3966.2	3877.6	3868.0
32.5°	18703.0	16738.5	12387.4	8576.2	6138.3	4502.0	3884.6	3532.9	3251.9	3062.2	3101.0
35°	20726.9	18405.3	13112.8	8336.7	5309.1	3808.4	3297.6	2868.4	2583.3	2478.0	2475.3
37.5°	22580.6	19922.6	13845.2	8051.6	4567.1	3314.2	2673.2	2359.0	2167.9	2072.4	2084.9
40°	24396.9	21478.6	14447.4	7608.5	3796.0	2759.1	2108.4	1997.7	1945.1	1898.0	1900.8
42.5°	26229.8	22987.6	14865.5	6959.3	3213.1	2234.4	1801.1	1882.8	1939.5	1924.3	1907.7
45°	28066.9	24481.4	15143.7	6048.4	2676.0	1866.1	1754.0	1888.3	1979.7	1996.3	1979.7
47.5°	30133.8	25908.7	15172.8	4848.1	2280.1	1810.8	1776.2	1855.1	2006.0	2046.1	2019.8
50°	32236.7	27269.5	14843.3	3692.1	2115.3	1855.1	1823.2	1813.5	1961.7	2004.6	1988.0
52.5°	33994.8	28455.9	14077.8	2921.0	2066.9	1911.8	1913.2	1814.9	1892.4	1943.7	1967.2
55°	35823.6	29902.6	12757.1	2556.9	2072.4	1936.7	1989.4	1857.8	1863.4	1849.5	1874.4
57.5°	37350.6	30970.0	11203.8	2428.2	2076.6	1961.7	1978.3	1885.5	1886.9	1812.2	1772.0
60°	38734.9	32023.5	9334.9	2309.1	2066.9	1965.8	1932.6	1914.6	1891.1	1824.6	1784.5
62.5°	39771.8	32607.7	7360.7	2215.0	2036.4	1942.3	1859.2	1882.8	1842.6	1776.2	1778.9
65°	40203.8	32448.5	5536.1	2100.1	1988.0	1911.8	1805.2	1794.2	1762.3	1691.7	1697.2
67.5°	39338.5	30820.4	4027.2	1925.7	1911.8	1862.0	1751.2	1706.9	1662.6	1614.2	1636.3
70°	36794.0	27776.2	2820.0	1670.9	1788.6	1781.7	1706.9	1657.1	1590.7	1515.9	1529.7
72.5°	32660.3	23987.1	1927.1	1385.8	1567.1	1668.2	1630.8	1583.7	1461.9	1262.6	1230.7
75°	27305.5	19147.4	1417.6	1093.7	1269.5	1481.3	1439.8	1391.3	1370.5	1651.6	1646.0
77.5°	21201.8	13110.1	1128.3	874.9	1027.2	1085.4	1250.1	1371.9	2065.5	1783.1	1719.4
80°	12941.2	7751.1	912.3	649.3	683.9	761.4	1063.2	1690.3	1946.4	1186.4	1117.2
82.5°	6487.2	3773.8	718.5	440.2	473.5	427.8	762.8	1952.0	1373.3	678.3	632.7
85°	2334.1	1194.7	325.3	213.2	210.4	130.1	430.5	1520.0	883.2	508.1	477.6
87.5°	599.4	218.7	44.3	26.3	18.0	16.6	108.0	757.3	384.9	246.4	202.1
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)