

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: P622488

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

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622488
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
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68447 lumens
Efficiency: N/A
Efficacy: 140.7 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

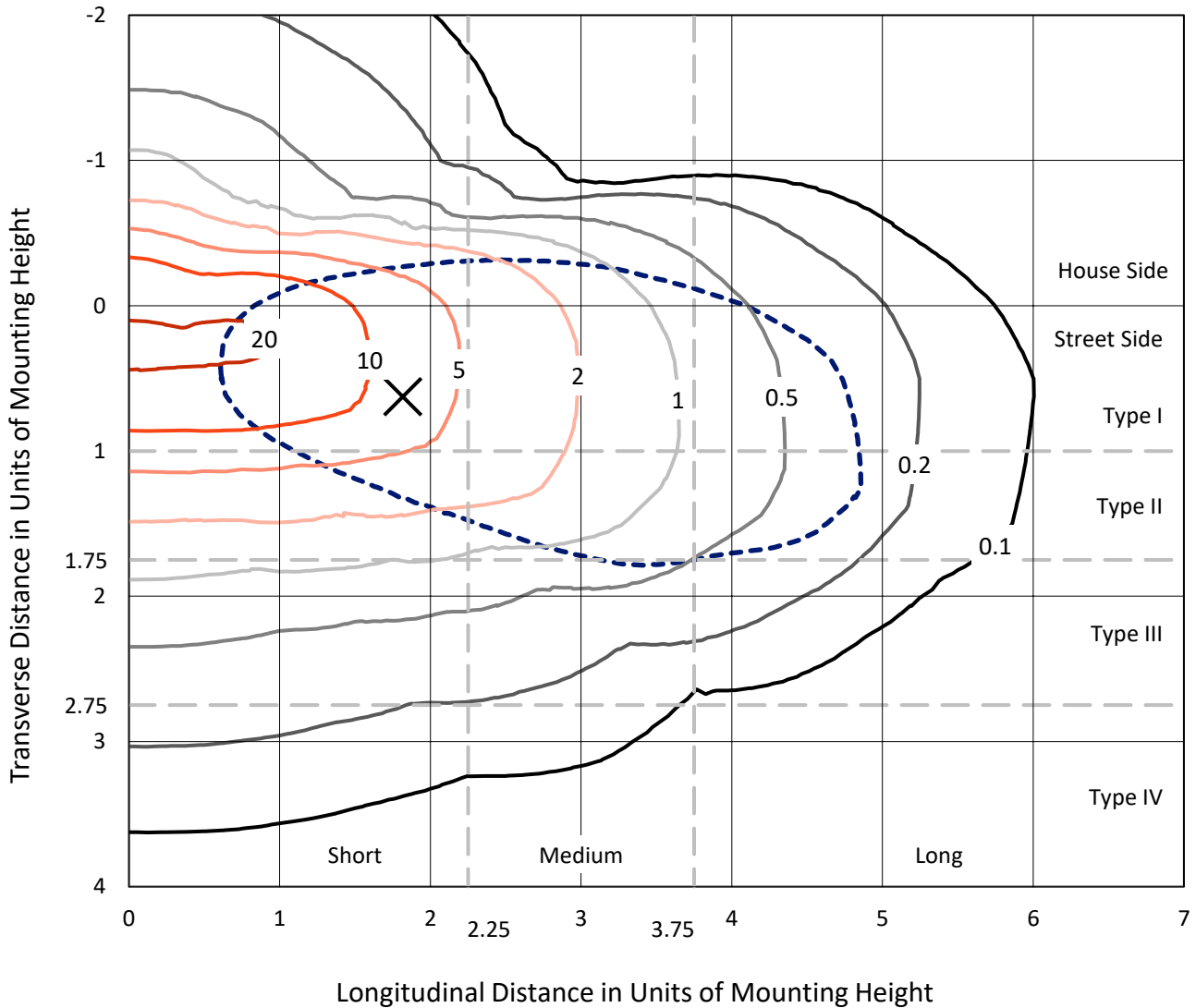
Input Watts (W): 486.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

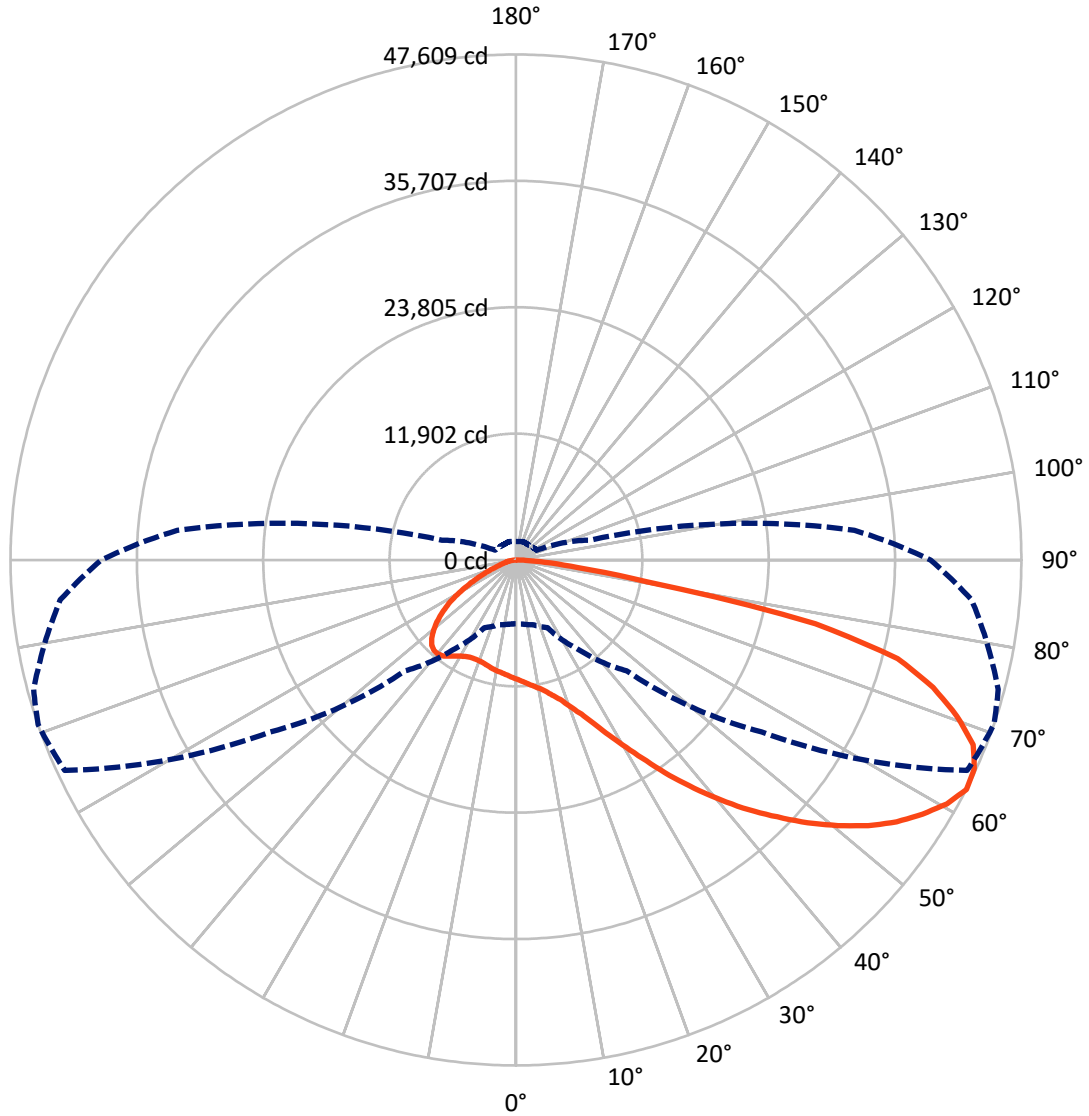
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 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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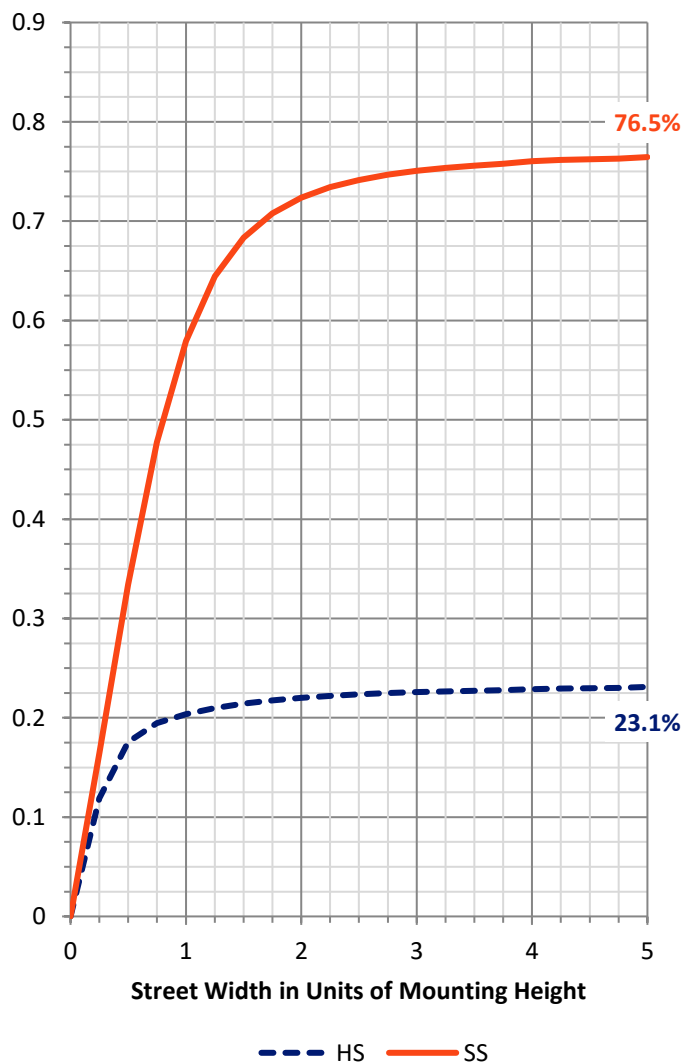
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16097.8	0.0	16097.8
	% Fixture	23.5	0.0	23.5
Street Side	Lumens	52349.2	0.0	52349.2
	% Fixture	76.5	0.0	76.5
Total	Lumens	68447.0	0.0	68447.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1085.4	1.6
10°-20°	3326.8	4.9
20°-30°	5761.1	8.4
30°-40°	8576.0	12.5
40°-50°	11541.4	16.9
50°-60°	13657.9	20.0
60°-70°	13847.8	20.2
70°-80°	9243.4	13.5
80°-90°	1407.2	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°	68447.0	100.0
0°-180°	68447.0	100.0

Coefficient of Utilization



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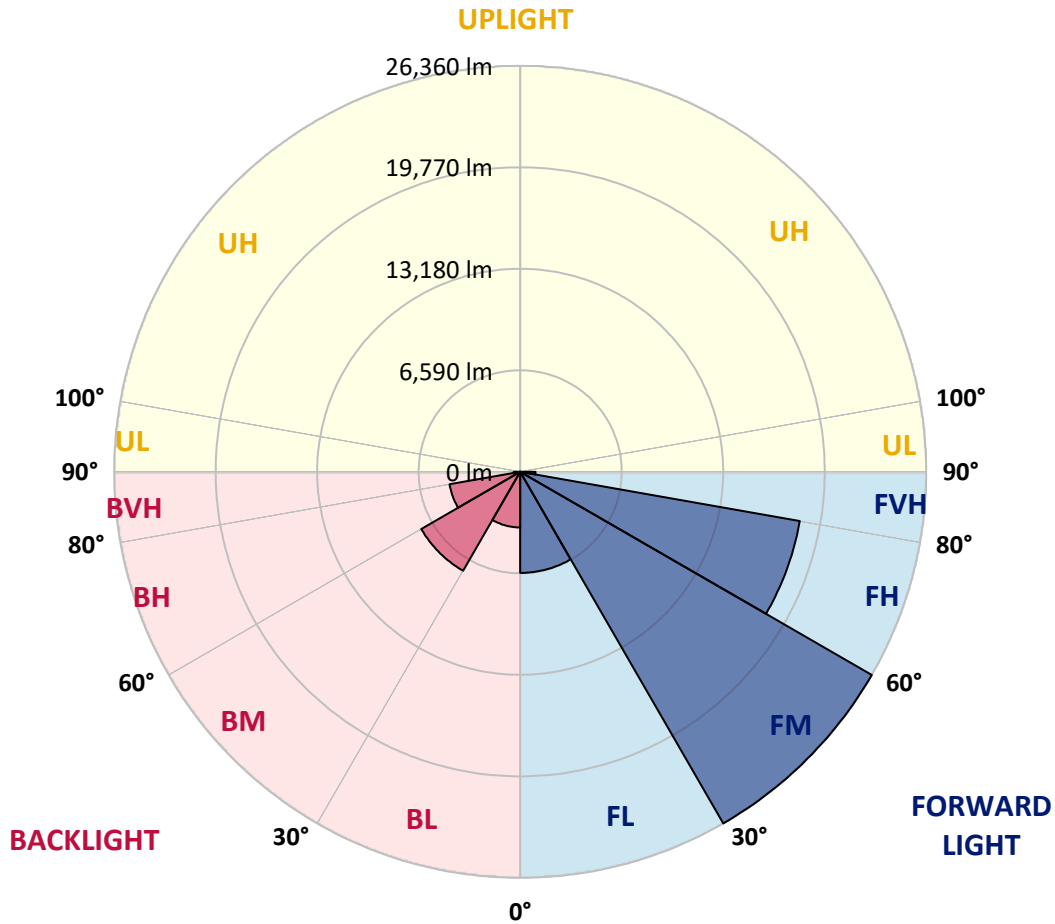
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6561.8	9.6			
FM (30°-60°)	26359.5	38.5			
FH (60°-80°)	18433.5	26.9			G5
FVH (80°-90°)	994.4	1.5			G5
BL (0°-30°)	3611.5	5.3	B4/5000		
BM (30°-60°)	7415.8	10.8	B4/8500		
BH (60°-80°)	4657.6	6.8	B4/5000		G4/5000
BVH (80°-90°)	412.7	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°	11222.3	11222.3	11222.3	11222.3	11222.3	11222.3	11222.3	11222.3	11222.3	11222.3	11222.3
2.5°	11823.2	11798.7	11850.4	11823.2	11766.1	11666.8	11596.1	11536.3	11443.9	11404.5	11328.3
5°	12508.3	12519.2	12570.9	12452.6	12349.3	12169.8	12021.6	11866.7	11710.3	11612.5	11423.5
7.5°	13212.5	13237.0	13241.1	13133.7	12965.1	12750.3	12489.3	12251.4	11998.5	11876.2	11566.2
10°	13822.9	13842.0	13828.4	13769.9	13590.5	13305.0	12996.4	12636.1	12313.9	12137.2	11709.0
12.5°	14410.2	14449.6	14406.1	14305.5	14119.3	13836.5	13545.6	13109.2	12731.3	12492.0	11883.0
15°	15043.7	15023.3	14956.7	14815.3	14676.7	14444.2	14109.8	13714.2	13273.7	12955.6	12182.1
17.5°	15548.1	15594.3	15557.6	15427.1	15259.9	15032.8	14811.2	14392.5	13896.3	13597.3	12632.0
20°	16011.6	16045.6	16022.5	15958.6	15917.8	15772.4	15588.9	15238.1	14766.4	14374.9	13209.8
22.5°	16339.3	16390.9	16482.0	16556.8	16615.2	16584.0	16510.6	16308.0	15773.7	15432.5	14002.4
25°	16526.9	16578.5	16830.0	17103.3	17387.4	17554.6	17638.9	17611.7	17058.4	16737.6	15125.3
27.5°	16638.3	16702.2	17051.6	17553.3	18094.3	18521.2	18914.1	19041.9	18677.5	18366.2	16480.7
30°	16671.0	16740.3	17146.8	17829.2	18737.3	19551.7	20196.0	20718.1	20470.6	20066.9	18150.1
32.5°	16479.3	16550.0	17004.0	17967.9	19243.1	20557.7	21490.2	22460.9	22560.1	22187.6	20171.6
35°	15961.3	16057.9	16660.1	17923.0	19717.5	21562.3	22745.0	24300.2	24910.6	24596.6	22212.1
37.5°	15314.2	15356.4	16138.1	17644.3	19962.2	22368.4	24160.2	26518.9	27284.2	27025.9	24409.0
40°	14567.9	14600.5	15467.9	17157.7	20026.1	23038.7	25485.7	28638.2	29695.9	29247.3	26450.9
42.5°	13586.4	13786.2	14644.0	16537.7	19876.6	23536.2	26709.2	31158.7	32175.5	31847.9	28392.2
45°	12732.6	12792.5	13665.2	15564.4	19442.9	23919.6	27837.5	33354.2	34522.0	34179.4	30803.9
47.5°	11899.3	11899.3	12723.1	14461.9	18615.0	24065.0	28948.2	35631.3	36986.6	36591.0	32924.6
50°	9668.4	10103.5	11740.2	13519.8	17348.0	23808.1	30109.2	38015.8	39326.3	38936.1	34870.0
52.5°	8000.4	8050.7	9495.8	12468.9	15949.1	23002.0	31089.3	40582.4	41561.2	40972.6	36838.5
55°	7353.3	7375.0	7959.6	10902.8	14669.9	21635.7	31633.1	42742.6	43529.7	42869.0	38627.5
57.5°	6926.4	6978.1	7255.4	8769.8	13324.0	19543.5	31756.8	44761.4	45152.9	44417.4	40237.1
60°	6388.1	6427.5	6853.0	7690.4	11820.4	16872.2	30965.6	46288.0	46642.8	45945.4	41788.2
62.5°	6008.8	6045.5	6313.3	7029.7	10304.7	14754.1	28239.9	46899.8	47609.4	47026.2	43079.7
65°	5571.0	5624.1	5878.3	6518.6	9218.5	13246.5	25848.6	46073.2	47443.6	47277.7	43789.4
67.5°	5065.3	5104.7	5369.8	5915.0	8071.1	12093.7	23193.6	44702.9	46449.8	46509.6	43271.4
70°	4531.1	4544.7	4807.0	5240.7	6630.1	10692.1	19177.8	42413.6	44059.9	44050.4	40991.6
72.5°	3873.1	3920.7	4184.4	4586.8	5546.6	8967.0	15008.4	38382.8	41105.8	41275.7	37310.2
75°	3207.0	3249.1	3468.0	3847.3	4535.1	7262.2	10658.1	30797.1	37137.5	37602.5	32390.3
77.5°	1956.3	2037.8	2192.8	2615.6	3474.8	5705.6	6805.4	18324.1	28851.7	30585.0	25684.2
80°	866.0	1193.6	1551.1	1780.9	2112.6	3854.1	3705.9	8212.5	12528.7	16968.7	16435.8
82.5°	266.5	342.6	972.0	1144.7	1261.6	1612.3	1718.3	4070.2	5785.8	6578.4	7456.6
85°	112.8	144.1	402.4	526.1	565.5	425.5	672.9	1829.8	2713.5	3080.5	2899.7
87.5°	29.9	34.0	108.8	152.3	156.3	135.9	175.4	615.8	908.1	1059.0	917.6
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°	11222.3	11222.3	11222.3	11222.3	11222.3	11222.3	11222.3	11222.3	11222.3	11222.3	11222.3
2.5°	11273.9	11196.5	11102.7	10972.1	10871.5	10779.1	10743.8	10641.8	10606.5	10616.0	10599.7
5°	11305.2	11180.1	10955.8	10727.4	10524.9	10361.8	10268.0	10147.0	10126.6	10125.2	10062.7
7.5°	11385.4	11197.8	10847.1	10520.8	10239.4	10015.1	9856.0	9718.7	9690.2	9687.5	9641.2
10°	11461.6	11206.0	10772.3	10360.4	9970.2	9665.7	9450.9	9293.2	9226.6	9189.9	9135.5
12.5°	11566.2	11229.1	10683.9	10176.9	9711.9	9317.7	9060.8	8848.7	8761.7	8684.2	8672.0
15°	11771.5	11328.3	10590.1	9928.1	9422.4	8928.9	8591.7	8386.5	8289.9	8192.1	8137.7
17.5°	12092.3	11522.7	10535.8	9686.1	9055.3	8510.2	8086.0	7874.0	7705.4	7623.8	7589.8
20°	12501.5	11824.5	10548.0	9455.0	8650.2	8049.3	7520.5	7269.0	7055.6	7010.7	6949.5
22.5°	13141.8	12274.5	10647.2	9253.8	8284.5	7534.1	6950.9	6562.1	6303.8	6265.7	6263.0
25°	14024.1	12920.2	10802.2	9049.9	7818.2	6982.2	6278.0	5792.6	5527.5	5431.0	5436.5
27.5°	15210.9	13869.1	11106.7	8866.4	7312.5	6230.4	5416.1	4968.8	4698.3	4612.6	4582.7
30°	16622.0	14996.1	11567.6	8670.6	6713.0	5318.2	4551.4	4170.8	3894.8	3807.8	3798.3
32.5°	18366.2	16437.2	12164.4	8421.8	6027.8	4420.9	3814.6	3469.3	3193.4	3007.1	3045.2
35°	20353.7	18073.9	12876.7	8186.6	5213.5	3739.9	3238.2	2816.8	2536.7	2433.4	2430.7
37.5°	22174.0	19563.9	13595.9	7906.6	4484.8	3254.5	2625.1	2316.5	2128.9	2035.1	2047.3
40°	23957.6	21091.9	14187.3	7471.6	3727.6	2709.4	2070.4	1961.7	1910.0	1863.8	1866.5
42.5°	25757.6	22573.7	14597.8	6834.0	3155.3	2194.2	1768.6	1848.9	1904.6	1889.6	1873.3
45°	27561.6	24040.6	14871.1	5939.5	2627.8	1832.5	1722.4	1854.3	1944.0	1960.3	1944.0
47.5°	29591.2	25442.2	14899.6	4760.8	2239.0	1778.2	1744.2	1821.7	1969.8	2009.3	1983.4
50°	31656.2	26778.5	14576.1	3625.7	2077.2	1821.7	1790.4	1780.9	1926.3	1968.5	1952.2
52.5°	33382.7	27943.6	13824.3	2868.4	2029.7	1877.4	1878.8	1782.2	1858.4	1908.7	1931.8
55°	35178.6	29364.2	12527.4	2510.9	2035.1	1901.9	1953.5	1824.4	1829.8	1816.2	1840.7
57.5°	36678.1	30412.3	11002.1	2384.5	2039.2	1926.3	1942.7	1851.6	1852.9	1779.5	1740.1
60°	38037.5	31446.9	9166.8	2267.6	2029.7	1930.4	1897.8	1880.1	1857.0	1791.8	1752.3
62.5°	39055.7	32020.6	7228.2	2175.1	1999.8	1907.3	1825.7	1848.9	1809.4	1744.2	1746.9
65°	39479.9	31864.2	5436.5	2062.3	1952.2	1877.4	1772.7	1761.9	1730.6	1661.3	1666.7
67.5°	38630.2	30265.5	3954.6	1891.0	1877.4	1828.5	1719.7	1676.2	1632.7	1585.1	1606.9
70°	36131.6	27276.1	2769.2	1640.9	1756.4	1749.6	1676.2	1627.3	1562.0	1488.6	1502.2
72.5°	32072.2	23555.2	1892.4	1360.8	1538.9	1638.1	1601.4	1555.2	1435.6	1239.8	1208.6
75°	26813.9	18802.6	1392.1	1074.0	1246.6	1454.6	1413.8	1366.3	1345.9	1621.8	1616.4
77.5°	20820.0	12874.0	1108.0	859.2	1008.7	1065.8	1227.6	1347.2	2028.3	1751.0	1688.4
80°	12708.2	7611.6	895.9	637.6	671.6	747.7	1044.1	1659.9	1911.4	1165.1	1097.1
82.5°	6370.4	3705.9	705.6	432.3	464.9	420.1	749.1	1916.8	1348.6	666.1	621.3
85°	2292.0	1173.2	319.5	209.4	206.6	127.8	422.8	1492.7	867.3	498.9	469.0
87.5°	588.6	214.8	43.5	25.8	17.7	16.3	106.0	743.6	377.9	242.0	198.5
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)