

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: P622418

Luminaire Tested: **PRV-M-C200-D-U-T3-BZ-7050**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622418  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/29/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-M-C200-D-U-T3-BZ-7050  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51082 lumens  
Efficiency: N/A  
Efficacy: 147.6 lumens/watt  
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

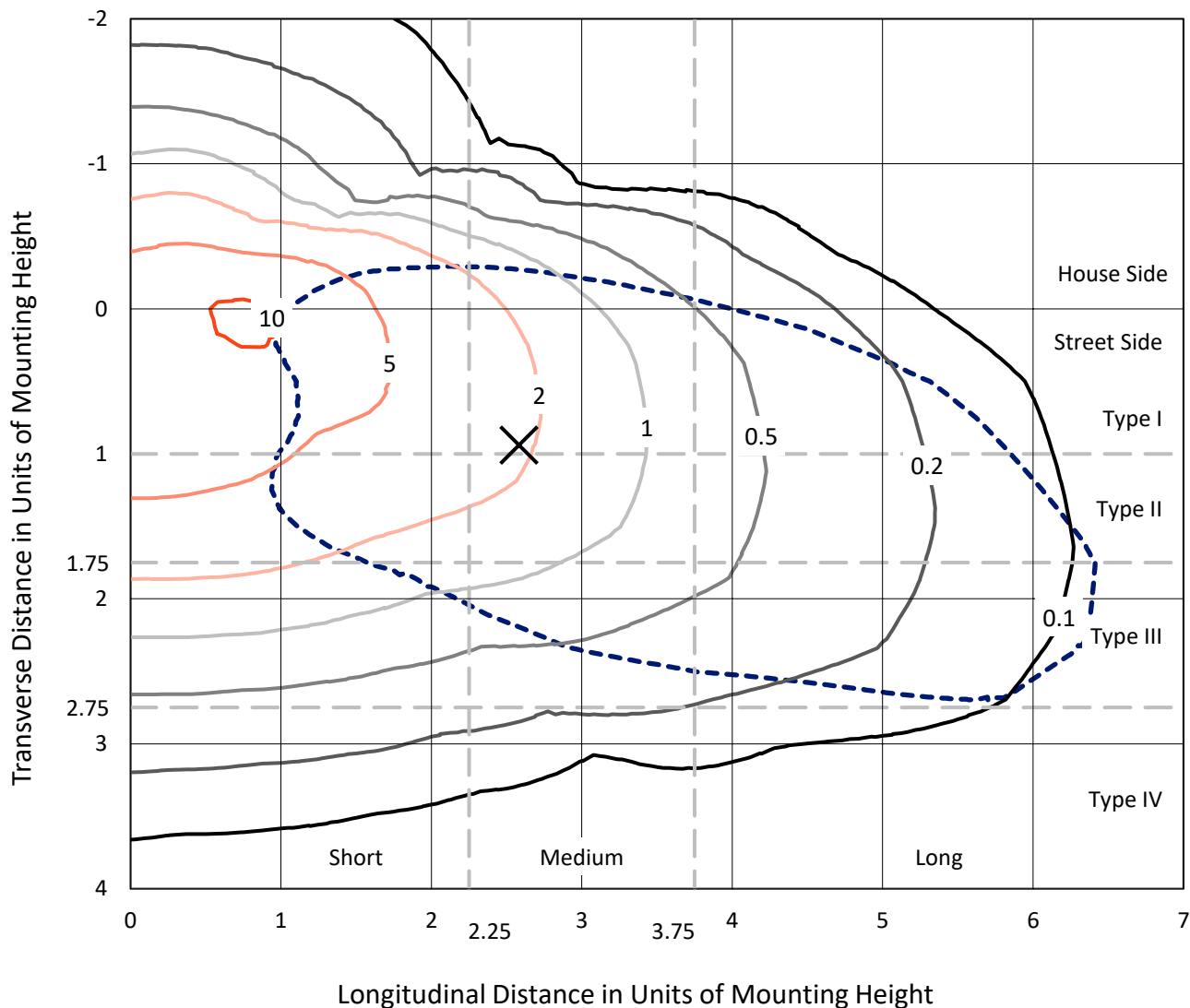
Input Watts (W): 346  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

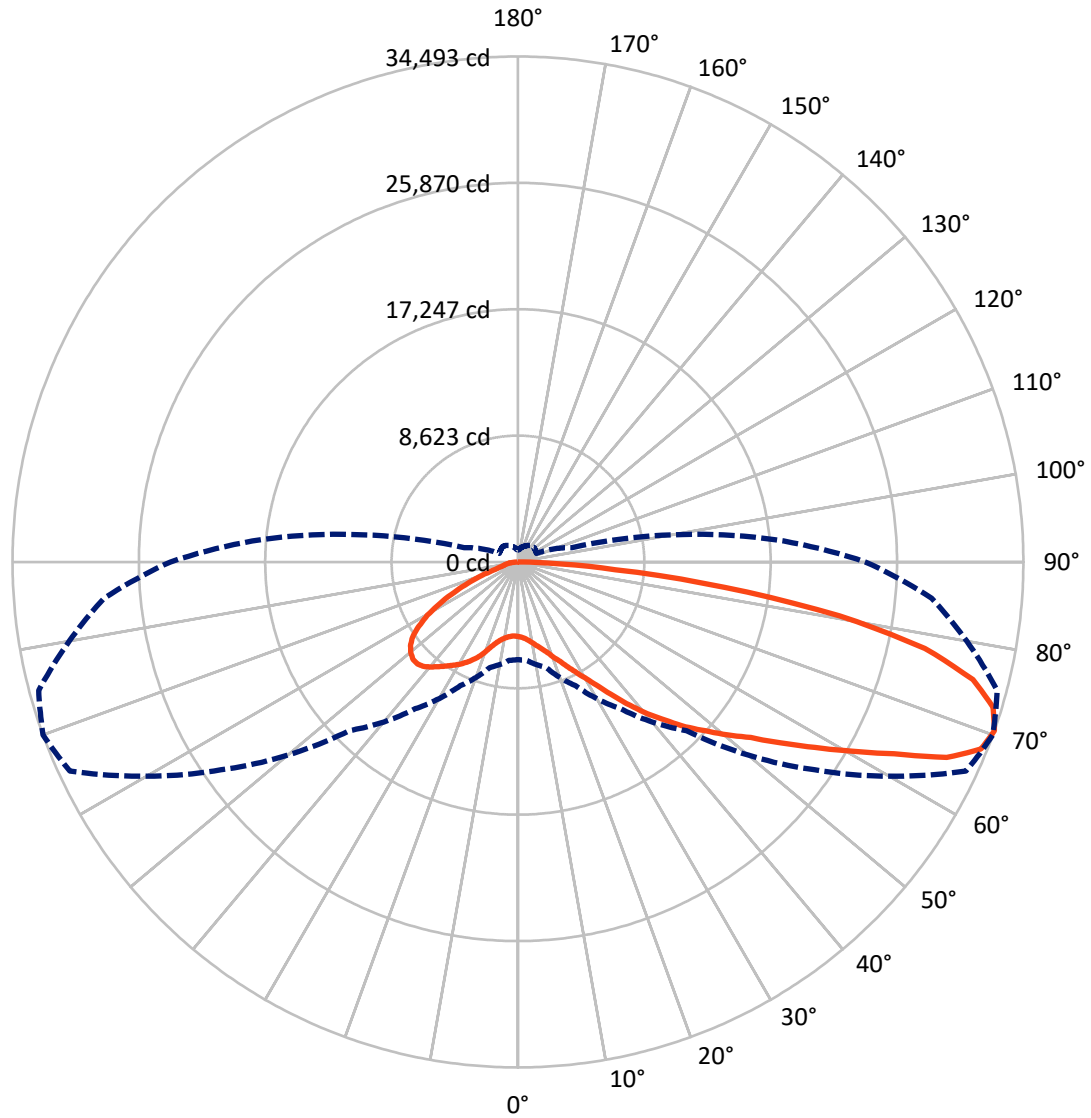
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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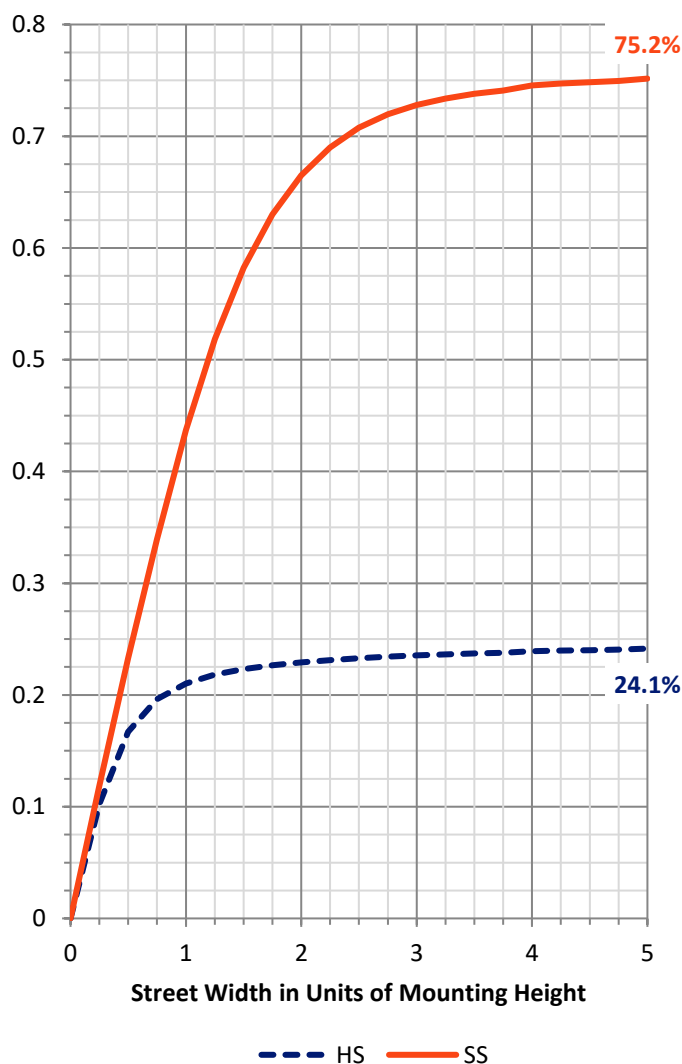
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12574.2	0.0	12574.2
	% Fixture	24.6	0.0	24.6
<b>Street Side</b>	Lumens	38507.8	0.0	38507.8
	% Fixture	75.4	0.0	75.4
<b>Total</b>	Lumens	51082.0	0.0	51082.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	498.4	1.0
10°-20°	1612.3	3.2
20°-30°	3045.1	6.0
30°-40°	5087.2	10.0
40°-50°	7769.2	15.2
50°-60°	10352.1	20.3
60°-70°	11945.9	23.4
70°-80°	8918.2	17.5
80°-90°	1853.5	3.6
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°	51082.0	100.0
0°-180°	51082.0	100.0

**Coefficient of Utilization**



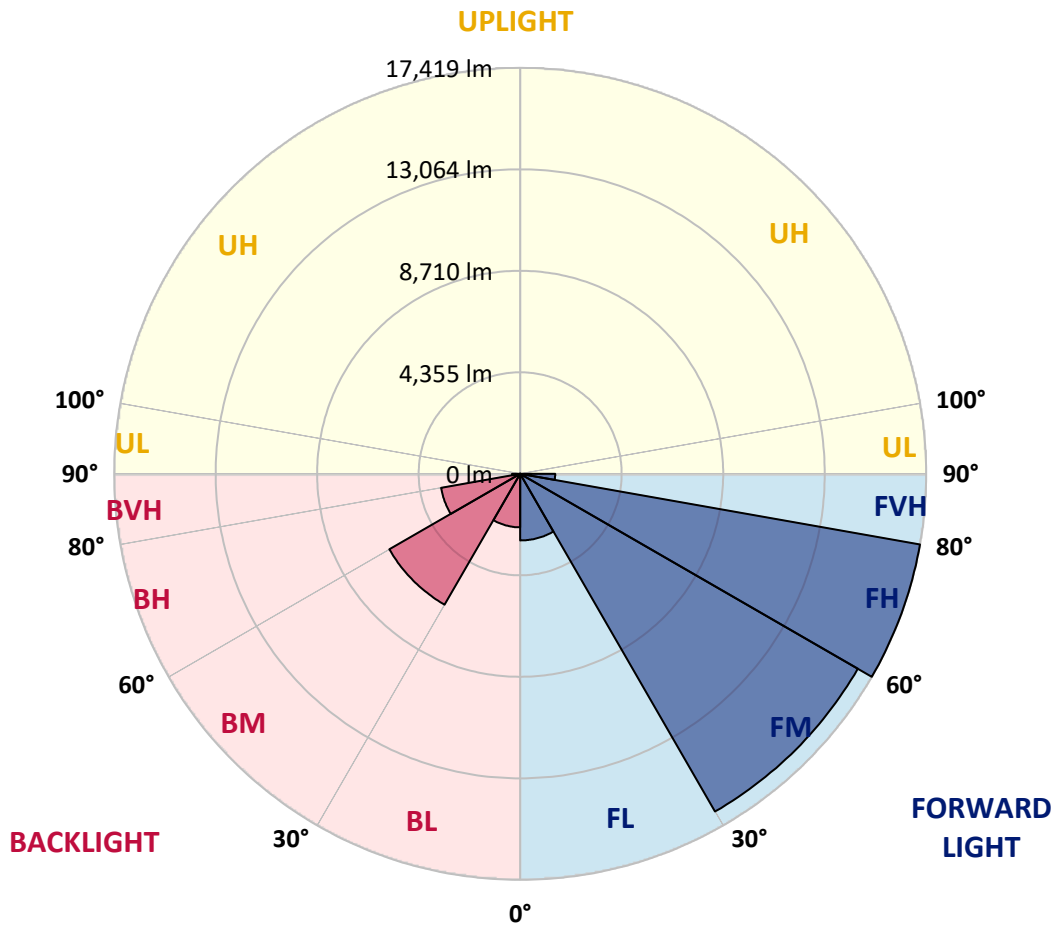
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2859.5	5.6			
FM (30°-60°)	16726.6	32.7			
FH (60°-80°)	17419.0	34.1			G5
FVH (80°-90°)	1502.7	2.9			G5
BL (0°-30°)	2296.3	4.5	B3/2500		
BM (30°-60°)	6482.0	12.7	B4/8500		
BH (60°-80°)	3445.1	6.7	B4/5000		G4/5000
BVH (80°-90°)	350.8	0.7			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	5088.6	5088.6	5088.6	5088.6	5088.6	5088.6	5088.6	5088.6	5088.6	5088.6	5088.6
2.5°	5234.2	5244.4	5267.9	5231.2	5233.2	5190.5	5185.4	5173.1	5141.6	5133.4	5126.3
5°	5423.7	5447.1	5449.1	5423.7	5411.4	5342.2	5332.0	5305.5	5255.6	5233.2	5207.8
7.5°	5576.4	5597.8	5621.2	5601.9	5594.7	5535.7	5521.4	5471.5	5414.5	5381.9	5335.1
10°	5689.4	5724.1	5743.4	5749.5	5776.0	5730.2	5724.1	5687.4	5632.4	5577.4	5529.6
12.5°	5777.0	5811.6	5845.2	5876.8	5937.9	5940.0	5952.2	5934.9	5886.0	5825.9	5751.6
15°	5849.3	5878.9	5943.0	6010.2	6104.9	6144.6	6215.9	6209.8	6170.1	6104.9	6025.5
17.5°	5976.6	6018.4	6074.4	6157.9	6275.0	6355.4	6503.1	6548.9	6493.9	6472.5	6375.8
20°	6194.5	6214.9	6267.9	6338.1	6469.5	6627.3	6834.1	6955.2	6926.7	6906.4	6799.4
22.5°	6452.2	6472.5	6486.8	6554.0	6707.8	6942.0	7227.1	7402.3	7368.7	7376.8	7308.6
25°	6735.3	6763.8	6751.6	6810.6	6993.9	7244.4	7626.3	7902.3	7945.1	7970.5	8024.5
27.5°	7134.5	7172.1	7143.6	7162.0	7316.7	7630.4	8075.4	8459.3	8558.1	8601.9	8956.3
30°	7859.5	7897.2	7837.1	7654.8	7729.2	8062.2	8582.5	9096.8	9261.8	9480.7	9990.9
32.5°	8929.8	8926.7	8795.4	8474.6	8301.5	8547.9	9127.3	9816.8	10128.4	10588.7	11184.4
35°	9998.0	9940.0	9833.1	9526.5	9184.4	9112.1	9702.7	10580.5	11221.0	11940.0	12546.9
37.5°	10973.6	10980.7	10905.4	10662.0	10264.8	9959.3	10344.3	11446.1	12403.3	13390.1	13847.3
40°	11860.6	11875.8	11837.1	11655.9	11381.9	11019.4	11036.7	12352.4	13621.3	14783.2	15160.0
42.5°	12503.1	12595.8	12721.1	12539.8	12452.2	12117.2	11879.9	13177.3	14749.6	16030.6	16289.3
45°	13078.5	13089.7	13196.6	13283.2	13401.3	13279.1	12911.5	14106.0	16043.9	17279.1	17439.0
47.5°	13499.1	13465.5	13589.7	13894.2	14303.5	14335.1	14076.5	15195.6	17206.8	18430.9	18465.5
50°	13720.0	13729.2	14016.4	14468.5	15170.1	15388.1	15348.4	16544.9	18548.0	19622.3	19483.8
52.5°	13886.0	13959.3	14365.7	14980.7	15949.2	16410.5	16549.0	18180.4	19891.2	20885.1	20641.7
55°	13971.6	14087.7	14536.7	15339.2	16546.9	17375.9	17691.5	20053.1	21788.3	22471.6	21733.3
57.5°	13531.6	13649.8	14346.3	15417.6	16972.6	18093.8	19009.3	22226.2	23872.8	24180.4	23154.9
60°	12526.5	12645.7	13670.1	15218.0	17049.0	18755.7	20477.7	24811.8	26225.2	26166.1	24309.7
62.5°	11533.7	11569.3	12602.9	14510.3	16743.5	19044.9	22102.0	27652.9	28819.9	28513.4	25598.9
65°	10192.5	10272.0	11317.8	13169.1	15887.1	18868.7	23407.5	30506.3	32159.0	31266.0	26916.7
67.5°	8608.0	8735.3	9661.0	11533.7	14321.9	18053.1	24297.5	32878.0	34080.6	33350.5	27960.4
70°	6663.0	6737.3	7462.4	9311.7	12228.2	16274.0	24738.4	33740.5	34493.1	33856.6	28338.3
72.5°	4741.4	4683.3	5152.8	6430.8	9230.2	13637.6	24221.1	33554.2	33915.7	33142.8	27423.8
75°	3241.4	3108.0	3489.8	4165.0	5427.7	9701.7	21629.5	31912.6	32061.3	31050.1	25186.5
77.5°	1704.7	1725.1	1939.9	2594.7	3515.3	4610.0	15507.2	28088.8	28400.4	27774.1	21295.4
80°	368.6	401.2	1327.9	1626.3	2085.6	2730.2	6910.4	21150.8	22258.8	21849.4	15482.8
82.5°	244.4	258.7	844.2	1076.4	1212.8	1381.9	2492.9	12100.9	14210.9	13664.0	8289.3
85°	145.6	154.8	319.8	421.6	626.3	606.9	918.5	4950.1	6651.8	6432.8	2987.8
87.5°	61.1	65.2	114.1	182.3	251.5	307.5	316.7	1316.7	2043.8	2076.4	648.7
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°	5088.6	5088.6	5088.6	5088.6	5088.6	5088.6	5088.6	5088.6	5088.6	5088.6	5088.6
2.5°	5104.9	5094.7	5082.5	5042.8	5009.2	4993.9	4977.6	4952.2	4955.2	4965.4	4945.0
5°	5169.1	5146.7	5107.0	5044.8	4980.7	4936.9	4905.3	4863.6	4846.3	4844.2	4827.9
7.5°	5288.2	5259.7	5188.4	5090.7	5001.0	4932.8	4875.8	4813.7	4775.0	4764.8	4745.4
10°	5468.5	5419.6	5316.7	5186.4	5070.3	4972.5	4881.9	4783.1	4718.0	4687.4	4665.0
12.5°	5677.2	5624.3	5484.8	5334.0	5187.4	5045.9	4912.5	4766.8	4667.0	4614.1	4581.5
15°	5963.4	5882.9	5739.3	5568.3	5385.0	5190.5	5001.0	4784.1	4611.0	4509.2	4473.5
17.5°	6315.7	6224.1	6086.6	5892.1	5661.9	5388.0	5089.6	4764.8	4484.8	4333.0	4301.5
20°	6737.3	6704.7	6559.1	6307.6	5954.2	5569.3	5144.6	4709.8	4323.9	4100.8	4049.9
22.5°	7304.5	7307.6	7126.3	6688.4	6226.1	5680.3	5152.8	4588.6	4083.5	3825.9	3787.2
25°	8052.0	8049.9	7616.1	7003.1	6376.8	5716.9	5080.5	4364.6	3803.5	3515.3	3465.4
27.5°	8918.6	8768.9	8106.0	7243.4	6408.4	5645.7	4874.8	4030.6	3478.6	3201.6	3156.8
30°	9879.9	9596.8	8593.7	7419.6	6364.6	5445.0	4500.0	3665.0	3221.0	2954.2	2903.3
32.5°	11003.1	10519.4	9095.8	7517.4	6244.4	5164.0	4049.9	3472.5	3066.2	2767.8	2703.7
35°	12190.5	11618.2	9652.8	7562.2	5987.8	4688.4	3705.7	3336.1	2943.0	2609.0	2550.9
37.5°	13415.6	12724.1	10301.5	7578.5	5660.9	4092.7	3499.0	3184.3	2787.2	2490.8	2450.1
40°	14616.2	13753.6	10990.9	7573.4	5179.3	3654.8	3318.8	2985.8	2654.8	2390.0	2343.2
42.5°	15706.8	14708.8	11687.4	7505.1	4611.0	3429.8	3146.7	2854.4	2539.7	2241.4	2182.3
45°	16724.1	15579.5	12248.5	7289.2	3969.5	3217.9	2953.2	2696.6	2394.1	2088.6	2024.5
47.5°	17621.3	16419.6	12627.4	6910.4	3460.3	3005.1	2720.0	2507.1	2245.4	1954.2	1903.3
50°	18548.0	17206.8	12923.7	6280.1	3073.3	2753.6	2485.8	2295.3	2086.6	1851.3	1805.5
52.5°	19493.0	18139.6	13315.8	5296.4	2702.7	2498.0	2226.1	2019.4	1880.9	1726.1	1682.3
55°	20539.8	19098.9	13629.4	4044.8	2360.5	2259.7	1967.4	1748.5	1630.4	1540.7	1528.5
57.5°	21432.9	19903.4	13329.0	2798.4	2118.1	2020.4	1728.1	1503.1	1379.8	1360.5	1391.0
60°	22430.9	20551.0	12220.0	2111.0	1939.9	1733.2	1488.8	1307.5	1241.4	1185.3	1186.4
62.5°	23588.7	20907.5	10290.3	1789.2	1746.4	1525.5	1338.1	1210.8	1147.7	1056.0	1030.6
65°	24246.6	20770.0	8054.0	1604.9	1570.3	1455.2	1313.7	1180.3	1083.5	958.3	936.9
67.5°	24468.6	19690.5	5960.3	1472.5	1475.6	1461.3	1337.1	1170.1	1054.0	910.4	893.1
70°	23713.0	17580.6	3808.6	1398.2	1435.9	1476.6	1389.0	1207.7	1054.0	848.3	832.0
72.5°	21746.6	14946.1	1982.7	1289.2	1410.4	1469.5	1452.1	1285.1	1016.3	768.8	752.6
75°	18581.6	11723.1	1119.2	1178.2	1360.5	1454.2	1483.7	1280.0	934.8	653.8	631.4
77.5°	14799.5	7330.0	897.2	1056.0	1267.8	1347.3	1442.0	1309.6	954.2	636.5	611.0
80°	8467.5	2838.1	729.1	889.0	1067.2	1237.3	1380.9	1259.7	886.0	585.5	561.1
82.5°	3338.1	870.7	578.4	706.7	869.7	1001.0	1221.0	1149.7	806.5	430.8	402.2
85°	874.8	360.5	396.1	485.7	609.0	729.1	1001.0	931.8	654.8	334.0	314.7
87.5°	125.3	99.8	123.2	188.4	346.2	517.3	665.0	567.2	435.8	254.6	227.1
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)