

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: P622426

Luminaire Tested: **PRV-M-C200-D-U-T4-BZ-7030**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622426
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-C200-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: 49659 lumens
Efficiency: N/A
Efficacy: 143.5 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

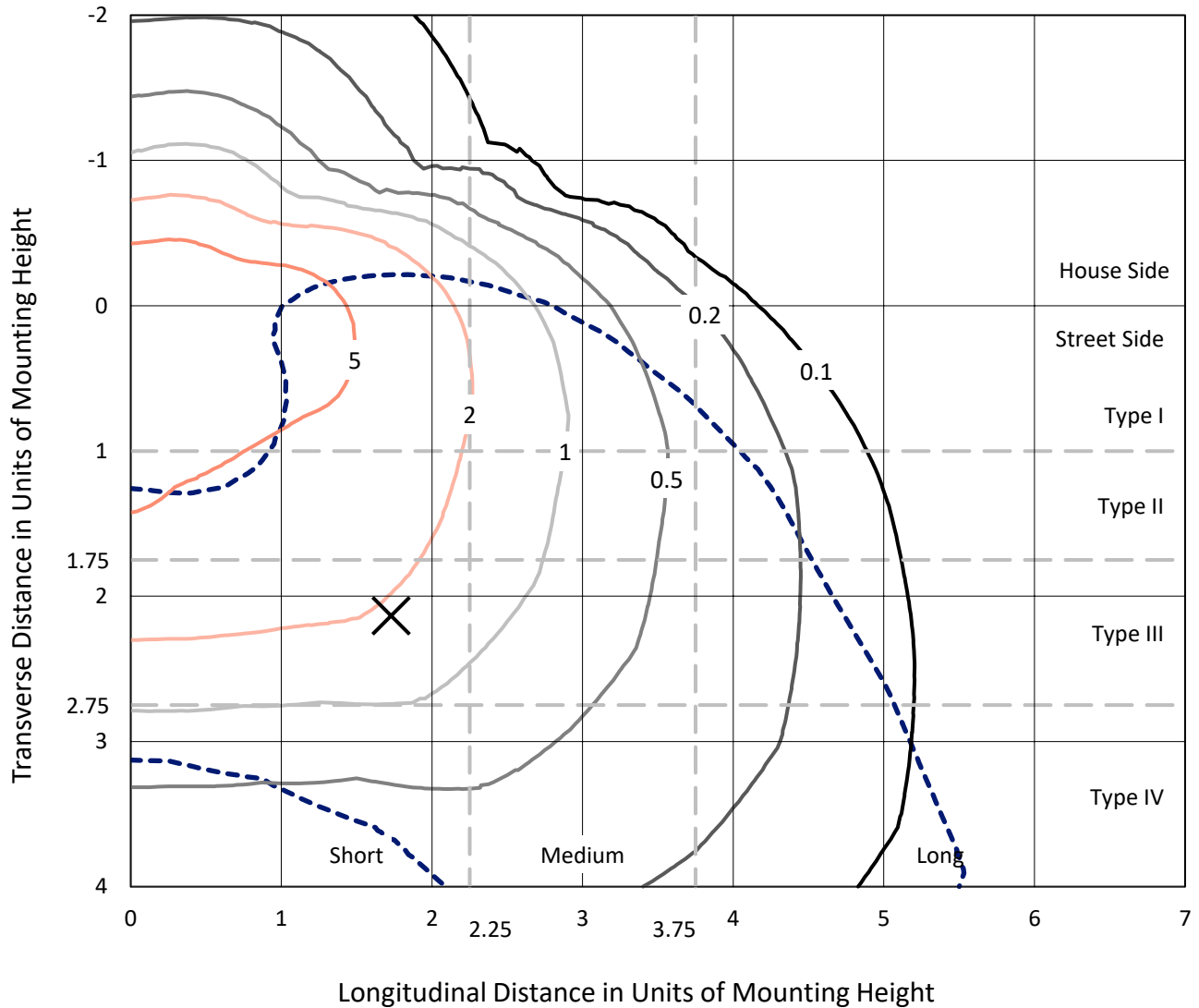
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

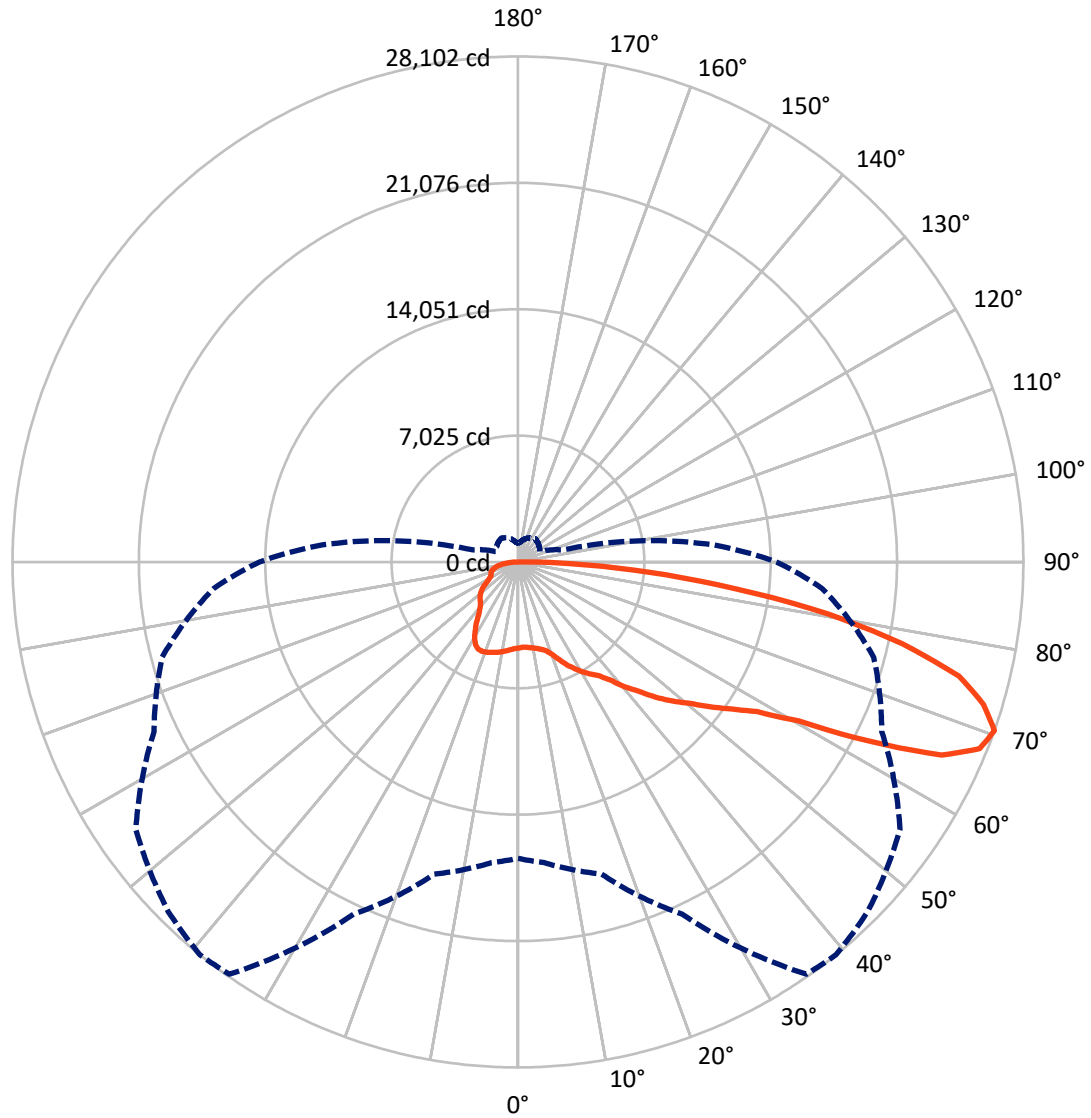
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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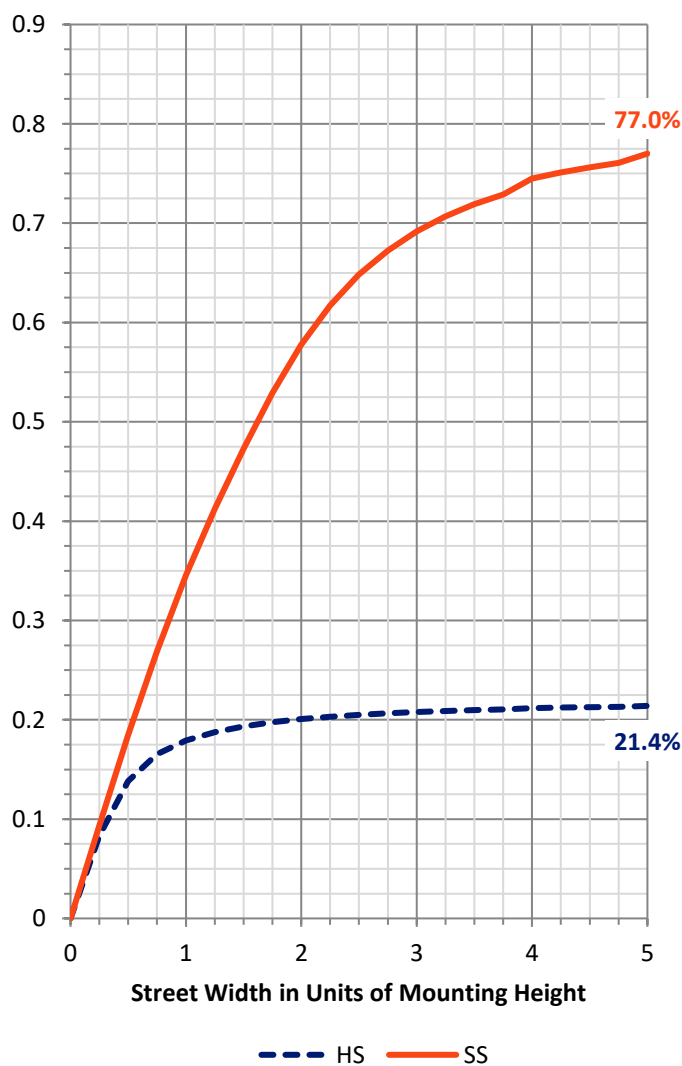
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10784.2	0.0	10784.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	38874.8	0.0	38874.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	49659.0	0.0	49659.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.0	0.9
10°-20°	1470.7	3.0
20°-30°	2746.5	5.5
30°-40°	4292.8	8.6
40°-50°	6575.4	13.2
50°-60°	9440.8	19.0
60°-70°	12462.5	25.1
70°-80°	9925.5	20.0
80°-90°	2279.8	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°	49659.0	100.0
0°-180°	49659.0	100.0

Coefficient of Utilization

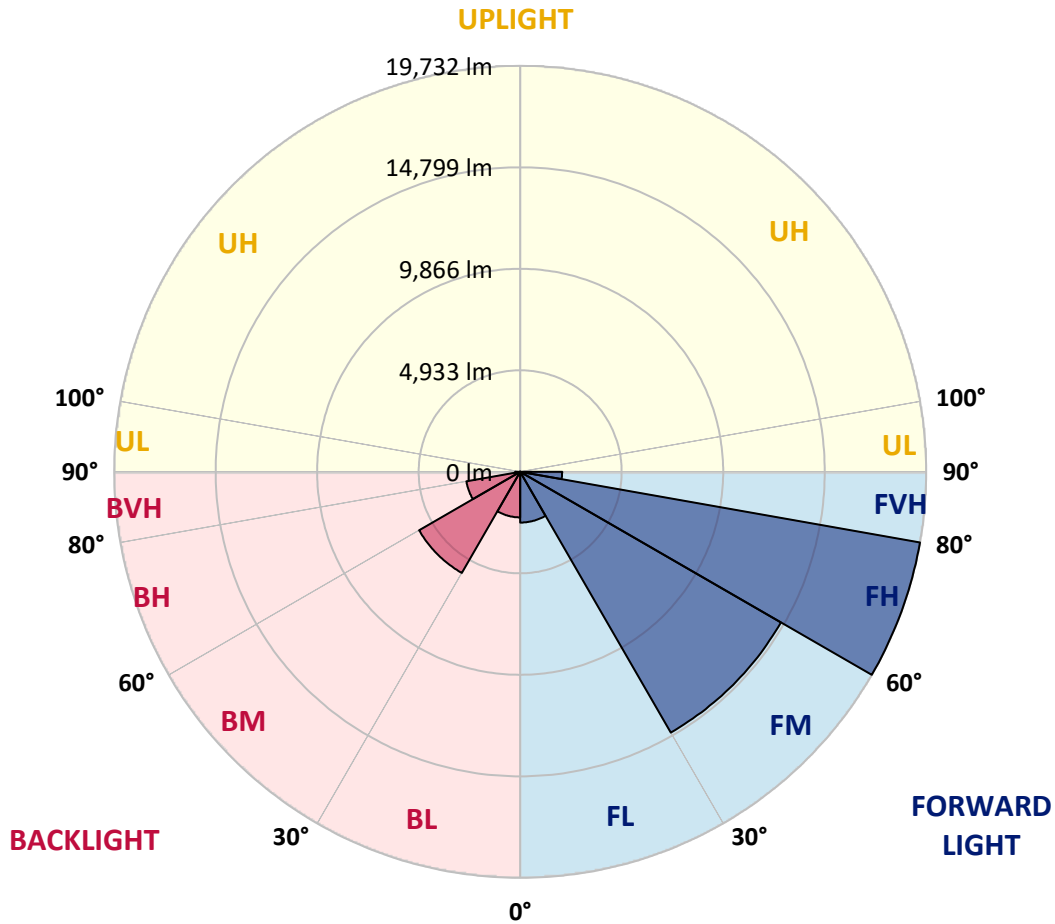


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2466.9	5.0			
FM (30°-60°)	14634.7	29.5			
FH (60°-80°)	19731.9	39.7			G5
FVH (80°-90°)	2041.4	4.1			G5
BL (0°-30°)	2215.4	4.5	B3/2500		
BM (30°-60°)	5674.3	11.4	B4/8500		
BH (60°-80°)	2656.1	5.3	B4/5000		G4/5000
BVH (80°-90°)	238.4	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°	4787.7	4787.7	4787.7	4787.7	4787.7	4787.7	4787.7	4787.7	4787.7	4787.7	4787.7
2.5°	4767.1	4765.1	4787.7	4766.1	4763.2	4747.5	4752.4	4770.0	4794.6	4789.7	4805.4
5°	4781.8	4779.9	4802.4	4772.0	4773.0	4764.2	4754.3	4775.9	4799.5	4800.5	4821.1
7.5°	4810.3	4818.2	4837.8	4811.3	4822.1	4807.4	4794.6	4821.1	4836.8	4829.9	4862.3
10°	4833.9	4838.8	4864.3	4851.5	4873.1	4868.2	4867.2	4898.7	4920.3	4899.7	4932.1
12.5°	4863.3	4874.1	4904.6	4902.6	4944.8	4942.9	4953.7	5004.7	5030.2	5011.6	5038.1
15°	4934.0	4944.8	4976.2	4984.1	5040.1	5050.9	5074.4	5140.2	5184.4	5165.7	5201.1
17.5°	5128.4	5122.5	5152.0	5150.0	5200.1	5209.9	5246.3	5332.7	5392.6	5400.4	5441.7
20°	5506.5	5518.2	5534.9	5513.3	5510.4	5501.6	5514.3	5573.2	5655.7	5700.9	5770.6
22.5°	6052.4	6021.0	6031.8	5956.2	5912.0	5907.1	5884.5	5912.0	5994.5	6056.3	6157.5
25°	6524.7	6528.6	6517.8	6422.6	6355.8	6344.0	6326.3	6347.9	6403.9	6484.4	6610.1
27.5°	6916.5	6903.7	6904.7	6796.7	6727.9	6706.3	6698.5	6819.3	6930.2	6985.2	7171.8
30°	7266.0	7234.6	7220.8	7128.6	7097.1	7082.4	7078.5	7275.8	7483.0	7634.2	7876.8
32.5°	7883.6	7853.2	7712.8	7486.9	7433.9	7430.0	7439.8	7703.0	8063.3	8341.2	8731.0
35°	8524.8	8509.1	8433.5	8152.7	7836.5	7774.6	7818.8	8163.5	8651.5	9221.9	9710.9
37.5°	9300.5	9272.0	9175.8	8829.2	8475.7	8312.7	8243.0	8608.3	9276.0	10333.5	10933.4
40°	10255.9	10163.6	10006.5	9547.0	9250.4	9100.2	8831.2	9142.4	10046.7	11654.1	12213.8
42.5°	11019.8	10994.3	10786.1	10369.8	9995.7	9814.0	9614.7	9767.9	10981.5	13006.2	13484.4
45°	11627.6	11652.1	11534.3	11169.0	10823.4	10716.4	10595.6	10829.3	12084.2	14462.3	14605.7
47.5°	12216.7	12235.4	12091.0	11832.8	11623.7	11552.0	11597.2	12105.8	13364.6	15691.7	15546.3
50°	13101.4	13028.8	12548.6	12416.1	12300.2	12334.6	12619.3	13242.8	14839.4	16880.7	16422.2
52.5°	14585.1	14310.1	13445.1	13171.1	13235.9	13360.6	13639.5	14405.4	16451.6	17814.5	17142.9
55°	16675.5	16244.5	15232.1	14312.1	14239.4	14426.0	14750.0	15611.1	17845.9	18673.7	17734.0
57.5°	18166.0	18149.3	17582.8	16740.3	15660.2	15685.8	15979.3	16761.9	18979.0	19530.9	18196.5
60°	19592.7	19688.9	19964.9	19455.3	18378.1	17928.4	17594.6	17923.5	19987.4	20213.3	18524.4
62.5°	20740.5	20813.2	21864.8	22022.9	22461.8	21974.8	20478.4	19420.9	20906.5	20639.4	18626.5
65°	20703.2	20690.5	22154.5	23275.8	25518.4	25887.6	24929.3	21428.9	22031.7	20858.4	18499.9
67.5°	19037.0	18992.8	20420.5	23134.4	27449.8	27687.5	27130.7	24578.8	22402.9	20827.0	18054.1
70°	16477.2	16778.6	17961.8	21592.8	27976.1	28101.8	27495.0	25930.8	22318.5	20480.3	16982.8
72.5°	13767.1	13859.4	15241.0	18939.8	27031.5	27069.8	26651.6	25627.4	21756.8	19667.3	14860.0
75°	10832.3	10794.9	12089.1	15293.0	24654.4	25324.0	25145.3	24625.9	20524.5	17355.0	11361.5
77.5°	7606.7	7556.7	8875.3	11805.3	20349.8	21850.1	22845.7	22397.0	17516.0	13026.8	6269.4
80°	3825.5	4136.7	5483.9	8429.6	15861.5	17467.9	18526.4	17762.5	12663.5	7238.5	1882.3
82.5°	1382.5	1441.4	2634.4	5204.0	11120.9	12150.0	13120.1	11876.0	6259.6	1813.6	388.8
85°	663.8	691.3	1079.1	2684.5	6794.7	7328.9	7711.8	5081.3	1167.5	347.6	219.9
87.5°	313.2	328.9	490.9	1070.3	2814.1	2922.1	2743.4	1477.8	204.2	131.6	91.3
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°	4787.7	4787.7	4787.7	4787.7	4787.7	4787.7	4787.7	4787.7	4787.7	4787.7	4787.7
2.5°	4799.5	4807.4	4820.1	4803.4	4794.6	4802.4	4821.1	4819.1	4830.9	4835.8	4826.0
5°	4819.1	4829.9	4849.6	4845.6	4844.7	4865.3	4889.8	4900.6	4915.4	4917.3	4903.6
7.5°	4860.4	4875.1	4898.7	4908.5	4923.2	4942.9	4977.2	4980.2	4999.8	4995.9	4987.0
10°	4937.9	4957.6	4994.9	5012.6	5016.5	5032.2	5057.7	5052.8	5058.7	5055.8	5042.0
12.5°	5045.0	5068.5	5121.6	5154.9	5144.1	5133.3	5120.6	5096.0	5084.2	5075.4	5062.6
15°	5210.9	5250.2	5313.0	5315.0	5272.8	5216.8	5175.6	5101.9	5055.8	5028.3	5006.7
17.5°	5477.0	5510.4	5599.7	5539.8	5439.7	5326.8	5203.1	5048.9	4925.2	4846.6	4814.2
20°	5799.1	5864.9	5949.3	5822.6	5653.7	5449.5	5226.6	4963.5	4702.3	4531.4	4496.1
22.5°	6217.4	6294.9	6293.0	6088.7	5849.1	5542.8	5231.5	4841.7	4428.3	4102.4	4053.3
25°	6710.3	6743.6	6629.7	6309.7	5960.1	5565.4	5158.9	4638.5	4036.6	3653.6	3626.1
27.5°	7199.2	7200.2	6929.2	6473.6	5968.0	5484.9	4977.2	4285.0	3629.1	3334.5	3302.1
30°	7855.2	7701.0	7206.1	6547.3	5881.5	5284.6	4620.8	3836.3	3286.4	3026.2	2994.8
32.5°	8572.9	8287.2	7444.7	6525.7	5695.0	4959.5	4154.4	3450.4	3011.5	2752.2	2726.7
35°	9455.6	8982.4	7690.2	6427.5	5351.3	4536.4	3712.5	3162.7	2791.5	2505.8	2457.7
37.5°	10545.5	9919.1	8005.4	6259.6	4973.3	4006.1	3343.3	2912.3	2581.4	2258.4	2189.6
40°	11749.3	10901.0	8412.9	6083.8	4545.2	3629.1	3078.2	2765.0	2447.9	2094.4	2028.6
42.5°	12877.5	11947.7	8936.2	5895.3	4154.4	3324.7	2965.3	2746.4	2410.6	2048.2	1970.7
45°	13949.8	12856.9	9470.4	5651.8	3745.9	3091.0	2918.2	2718.9	2378.1	2016.8	1935.3
47.5°	14801.1	13657.2	9956.4	5396.5	3385.6	2923.1	2847.5	2621.7	2301.6	1960.8	1887.2
50°	15583.6	14279.7	10332.5	5166.7	3058.6	2791.5	2714.9	2463.6	2156.2	1882.3	1818.5
52.5°	16191.4	14772.6	10543.6	5140.2	2741.4	2620.7	2529.4	2281.9	2022.7	1773.3	1711.4
55°	16615.6	15115.3	10571.1	5011.6	2467.5	2398.8	2294.7	2123.8	1952.0	1736.0	1683.0
57.5°	16888.6	15246.9	10388.4	4235.9	2184.7	2097.3	2053.1	2009.9	1885.2	1665.3	1625.0
60°	17030.0	15152.6	9952.5	3117.5	1906.8	1809.6	1883.3	1882.3	1782.1	1563.2	1529.8
62.5°	16976.9	14874.7	9080.6	2236.8	1653.5	1660.4	1741.9	1728.1	1584.8	1379.6	1341.3
65°	16592.0	14252.2	7597.9	1616.2	1535.7	1615.2	1679.0	1609.3	1426.7	1230.3	1205.8
67.5°	15763.3	13052.3	5308.1	1432.6	1505.2	1594.6	1657.4	1550.4	1361.9	1155.7	1133.1
70°	14374.9	10902.0	2567.7	1358.0	1449.3	1552.4	1612.3	1490.5	1304.0	1087.0	1052.6
72.5°	11778.8	7583.2	1064.4	1277.4	1380.5	1454.2	1543.5	1424.7	1212.6	973.1	945.6
75°	7386.8	3674.2	883.7	1184.2	1274.5	1347.2	1436.5	1298.1	1053.6	753.1	729.5
77.5°	3216.7	865.0	832.6	1067.3	1182.2	1227.4	1303.0	1235.2	965.2	661.8	644.1
80°	622.5	543.0	789.4	886.7	1017.2	1079.1	1118.4	1074.2	813.0	504.7	421.2
82.5°	355.4	464.4	687.3	660.8	804.2	797.3	871.9	878.8	649.0	245.5	219.9
85°	241.5	390.8	461.5	408.5	470.3	483.1	631.4	614.7	441.9	147.3	118.8
87.5°	113.9	118.8	153.2	139.4	185.6	269.0	365.3	327.0	193.4	83.5	70.7
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)