

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: P622540

Luminaire Tested: **PRV-M-C275-D-U-T3-BZ-7030**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622540
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-C275-D-U-T3-BZ-7030
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 77596 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

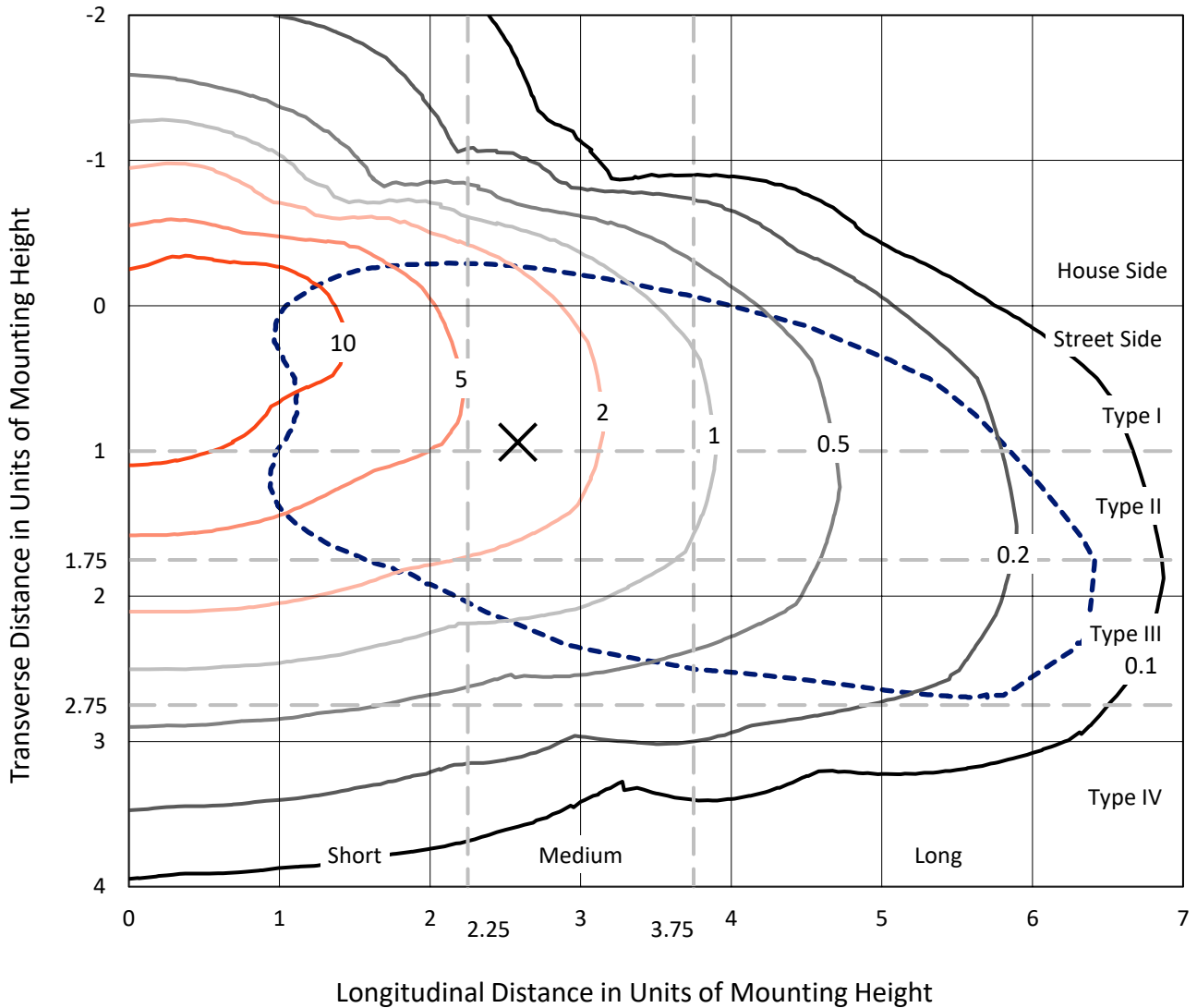
Input Watts (W): 587.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

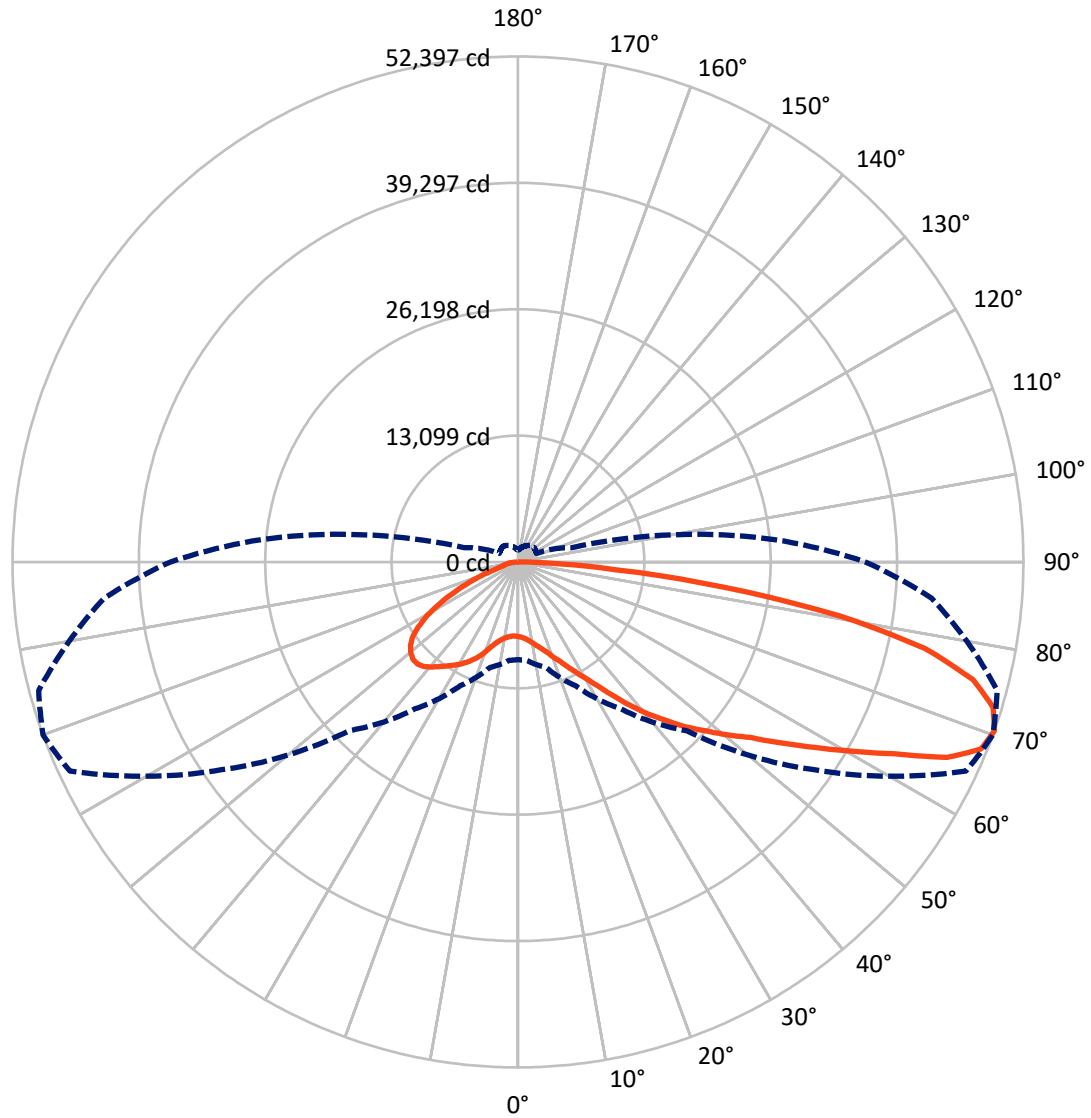
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 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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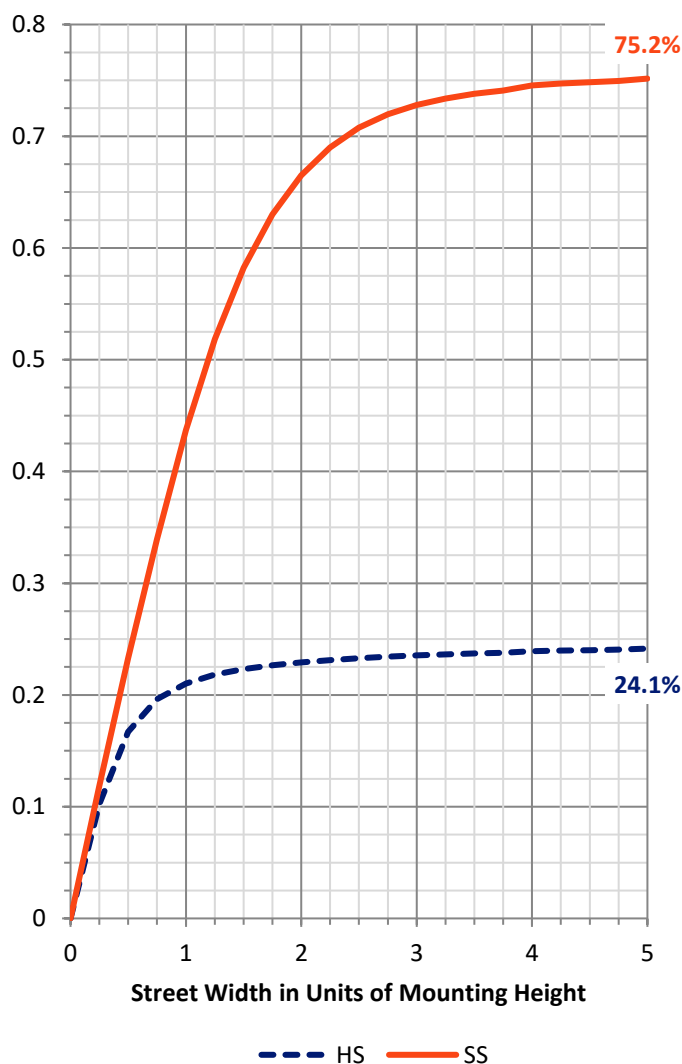
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19100.8	0.0	19100.8
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	58495.2	0.0	58495.2
	% Fixture	75.4	0.0	75.4
Total	Lumens	77596.0	0.0	77596.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	757.1	1.0
10°-20°	2449.2	3.2
20°-30°	4625.7	6.0
30°-40°	7727.7	10.0
40°-50°	11801.9	15.2
50°-60°	15725.4	20.3
60°-70°	18146.4	23.4
70°-80°	13547.1	17.5
80°-90°	2815.5	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°	77596.0	100.0
0°-180°	77596.0	100.0

Coefficient of Utilization

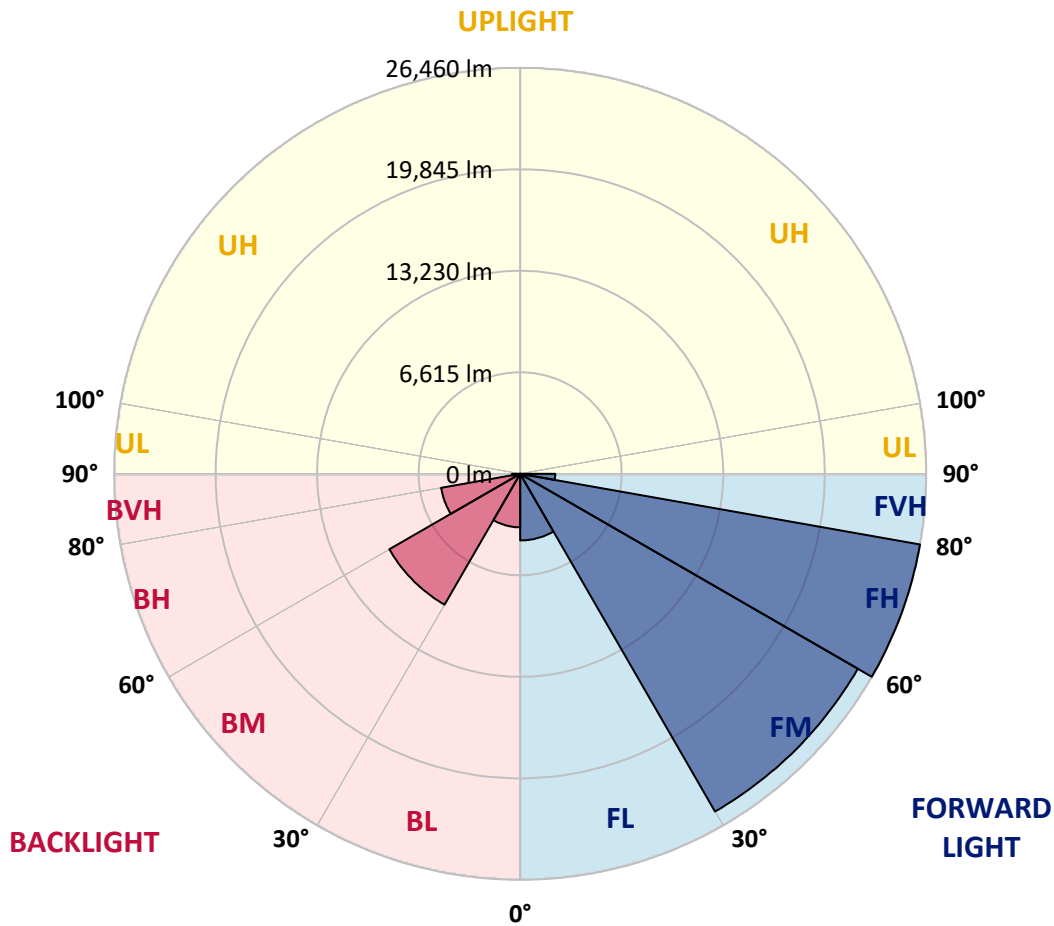


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4343.7	5.6			
FM (30°-60°)	25408.5	32.7			
FH (60°-80°)	26460.4	34.1			G5
FVH (80°-90°)	2282.7	2.9			G5
BL (0°-30°)	3488.2	4.5	B4/5000		
BM (30°-60°)	9846.5	12.7	B5		
BH (60°-80°)	5233.2	6.7	B5		G5
BVH (80°-90°)	532.9	0.7			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	7729.9	7729.9	7729.9	7729.9	7729.9	7729.9	7729.9	7729.9	7729.9	7729.9	7729.9
2.5°	7951.1	7966.5	8002.1	7946.4	7949.5	7884.6	7876.8	7858.3	7810.3	7797.9	7787.1
5°	8238.8	8274.4	8277.5	8238.8	8220.2	8115.0	8099.6	8059.4	7983.6	7949.5	7910.9
7.5°	8470.8	8503.3	8538.9	8509.5	8498.7	8409.0	8387.3	8311.5	8224.9	8175.4	8104.2
10°	8642.5	8695.1	8724.5	8733.8	8774.0	8704.4	8695.1	8639.4	8555.9	8472.4	8399.7
12.5°	8775.6	8828.2	8879.2	8927.2	9020.0	9023.1	9041.6	9015.3	8941.1	8849.8	8736.9
15°	8885.4	8930.3	9027.7	9129.8	9273.7	9334.0	9442.3	9433.0	9372.7	9273.7	9153.0
17.5°	9078.8	9142.2	9227.3	9354.1	9532.0	9654.2	9878.5	9948.1	9864.6	9832.1	9685.1
20°	9409.8	9440.7	9521.2	9627.9	9827.5	10067.2	10381.3	10565.3	10522.0	10491.1	10328.7
22.5°	9801.2	9832.1	9853.8	9955.9	10189.4	10545.2	10978.4	11244.4	11193.4	11205.7	11102.1
25°	10231.2	10274.5	10256.0	10345.7	10624.1	11004.7	11584.7	12004.0	12068.9	12107.6	12189.6
27.5°	10837.6	10894.8	10851.5	10879.4	11114.5	11590.9	12266.9	12850.1	13000.2	13066.7	13605.0
30°	11939.0	11996.2	11904.9	11628.1	11741.0	12246.8	13037.3	13818.5	14069.1	14401.6	15176.6
32.5°	13564.8	13560.1	13360.6	12873.3	12610.3	12984.7	13864.9	14912.1	15385.5	16084.7	16989.6
35°	15187.5	15099.3	14936.9	14471.3	13951.5	13841.7	14738.9	16072.3	17045.3	18137.4	19059.4
37.5°	16669.4	16680.2	16565.8	16196.1	15592.8	15128.7	15713.4	17387.2	18841.3	20340.2	21034.8
40°	18016.8	18040.0	17981.2	17705.8	17289.7	16739.0	16765.3	18763.9	20691.3	22456.4	23028.7
42.5°	18992.8	19133.6	19323.9	19048.5	18915.5	18406.6	18046.1	20016.9	22405.3	24351.3	24744.2
45°	19866.8	19883.9	20046.3	20177.8	20357.2	20171.6	19613.2	21427.7	24371.4	26247.8	26490.7
47.5°	20505.7	20454.7	20643.4	21105.9	21727.8	21775.7	21382.8	23082.9	26138.0	27997.4	28050.0
50°	20841.4	20855.3	21291.5	21978.4	23044.2	23375.2	23314.9	25132.5	28175.3	29807.2	29596.9
52.5°	21093.5	21204.9	21822.1	22756.5	24227.6	24928.3	25138.7	27616.8	30215.6	31725.4	31355.7
55°	21223.5	21399.8	22082.0	23301.0	25135.6	26394.8	26874.3	30461.6	33097.5	34135.5	33014.0
57.5°	20555.2	20734.7	21792.7	23420.1	25782.2	27485.3	28876.0	33762.7	36264.0	36731.2	35173.4
60°	19028.4	19209.4	20765.6	23116.9	25898.2	28490.8	31106.6	37690.2	39837.3	39747.6	36927.6
62.5°	17520.2	17574.3	19144.4	22041.8	25434.1	28930.1	33573.9	42006.1	43778.8	43313.2	38886.0
65°	15482.9	15603.6	17192.3	20004.5	24133.2	28662.5	35557.1	46340.5	48851.1	47494.5	40887.7
67.5°	13076.0	13269.3	14675.4	17520.2	21755.6	27423.5	36909.1	49943.2	51770.1	50661.0	42473.3
70°	10121.4	10234.3	11335.7	14144.9	18575.2	24721.0	37578.9	51253.5	52396.6	51429.8	43047.2
72.5°	7202.4	7114.2	7827.3	9768.7	14021.1	20716.1	36793.0	50970.4	51519.5	50345.4	41658.0
75°	4923.8	4721.1	5301.2	6326.8	8245.0	14737.3	32856.2	48476.8	48702.6	47166.6	38259.5
77.5°	2589.5	2620.5	2946.8	3941.5	5339.9	7002.8	23556.2	42668.2	43141.5	42190.2	32348.8
80°	560.0	609.5	2017.2	2470.4	3168.1	4147.2	10497.3	32129.1	33812.2	33190.3	23519.1
82.5°	371.3	392.9	1282.4	1635.1	1842.4	2099.1	3786.8	18381.8	21587.0	20756.3	12591.8
85°	221.2	235.1	485.7	640.4	951.3	922.0	1395.3	7519.5	10104.4	9771.8	4538.6
87.5°	92.8	99.0	173.3	276.9	382.1	467.2	481.1	2000.1	3104.6	3154.1	985.4
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°	7729.9	7729.9	7729.9	7729.9	7729.9	7729.9	7729.9	7729.9	7729.9	7729.9	7729.9
2.5°	7754.6	7739.1	7720.6	7660.3	7609.2	7586.0	7561.3	7522.6	7527.2	7542.7	7511.8
5°	7852.1	7818.0	7757.7	7663.3	7565.9	7499.4	7451.4	7388.0	7361.7	7358.6	7333.9
7.5°	8033.1	7989.7	7881.5	7733.0	7596.8	7493.2	7406.6	7312.2	7253.4	7237.9	7208.6
10°	8306.9	8232.6	8076.4	7878.4	7702.0	7553.5	7415.8	7265.8	7166.8	7120.4	7086.4
12.5°	8624.0	8543.5	8331.6	8102.7	7879.9	7664.9	7462.2	7241.0	7089.4	7009.0	6959.5
15°	9058.7	8936.4	8718.3	8458.5	8180.0	7884.6	7596.8	7267.3	7004.4	6849.7	6795.5
17.5°	9593.9	9454.7	9245.8	8950.4	8600.8	8184.7	7731.4	7237.9	6812.6	6582.1	6534.1
20°	10234.3	10184.8	9963.6	9581.5	9044.7	8460.0	7814.9	7154.4	6568.1	6229.4	6152.0
22.5°	11095.9	11100.6	10825.2	10160.0	9457.8	8628.6	7827.3	6970.3	6203.1	5811.7	5752.9
25°	12231.3	12228.3	11569.3	10638.0	9686.7	8684.3	7717.5	6630.0	5777.7	5339.9	5264.1
27.5°	13547.8	13320.4	12313.3	11003.1	9734.6	8576.0	7405.0	6122.6	5284.2	4863.5	4795.4
30°	15008.0	14578.0	13054.3	11270.7	9668.1	8271.3	6835.8	5567.3	4892.8	4487.6	4410.2
32.5°	16714.3	15979.5	13816.9	11419.2	9485.6	7844.3	6152.0	5274.9	4657.7	4204.5	4107.0
35°	18518.0	17648.6	14663.1	11487.3	9095.8	7121.9	5629.2	5067.6	4470.5	3963.2	3875.0
37.5°	20378.9	19328.5	15648.4	11512.0	8599.2	6217.0	5315.2	4837.2	4233.9	3783.7	3721.8
40°	22202.7	20892.4	16695.7	11504.3	7867.5	5551.8	5041.3	4535.5	4032.8	3630.6	3559.4
42.5°	23859.4	22343.4	17753.8	11400.7	7004.4	5210.0	4779.9	4336.0	3858.0	3404.7	3315.0
45°	25404.8	23666.0	18606.1	11072.7	6029.8	4888.2	4486.0	4096.2	3636.8	3172.7	3075.2
47.5°	26767.6	24942.2	19181.6	10497.3	5256.4	4564.9	4131.8	3808.5	3410.9	2968.5	2891.2
50°	28175.3	26138.0	19631.7	9539.7	4668.5	4182.8	3776.0	3486.7	3169.6	2812.3	2742.7
52.5°	29610.8	27554.9	20227.3	8045.4	4105.5	3794.5	3381.5	3067.5	2857.1	2622.0	2555.5
55°	31201.0	29012.1	20703.7	6144.3	3585.7	3432.6	2988.6	2656.0	2476.6	2340.5	2321.9
57.5°	32557.6	30234.2	20247.4	4250.9	3217.6	3069.1	2625.1	2283.2	2096.1	2066.7	2113.1
60°	34073.6	31218.0	18562.8	3206.7	2946.8	2632.8	2261.6	1986.2	1885.7	1800.6	1802.1
62.5°	35832.4	31759.4	15631.4	2717.9	2652.9	2317.3	2032.6	1839.3	1743.4	1604.1	1565.5
65°	36831.7	31550.6	12234.4	2437.9	2385.3	2210.5	1995.5	1792.9	1645.9	1455.6	1423.1
67.5°	37168.9	29910.9	9054.0	2236.8	2241.5	2219.8	2031.1	1777.4	1601.0	1382.9	1356.6
70°	36021.1	26705.7	5785.4	2123.9	2181.1	2243.0	2110.0	1834.6	1601.0	1288.6	1263.8
72.5°	33034.1	22703.9	3011.8	1958.4	2142.5	2232.2	2205.9	1952.2	1543.8	1167.9	1143.2
75°	28226.3	17807.9	1700.0	1789.8	2066.7	2209.0	2253.8	1944.5	1420.1	993.1	959.1
77.5°	22481.1	11134.6	1362.8	1604.1	1925.9	2046.5	2190.4	1989.3	1449.4	966.8	928.1
80°	12862.5	4311.2	1107.6	1350.4	1621.2	1879.5	2097.6	1913.5	1345.8	889.5	852.3
82.5°	5070.7	1322.6	878.6	1073.5	1321.1	1520.6	1854.7	1746.5	1225.1	654.3	611.0
85°	1328.8	547.6	601.7	737.9	925.0	1107.6	1520.6	1415.4	994.7	507.4	478.0
87.5°	190.3	151.6	187.2	286.2	525.9	785.8	1010.1	861.6	662.1	386.7	345.0
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)