

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: P622513

Luminaire Tested: **PRV-M-C250-D-U-T4-BZ-7050-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-6)
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-T4-BZ-7050-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63997 lumens
Efficiency: N/A
Efficacy: 131.5 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

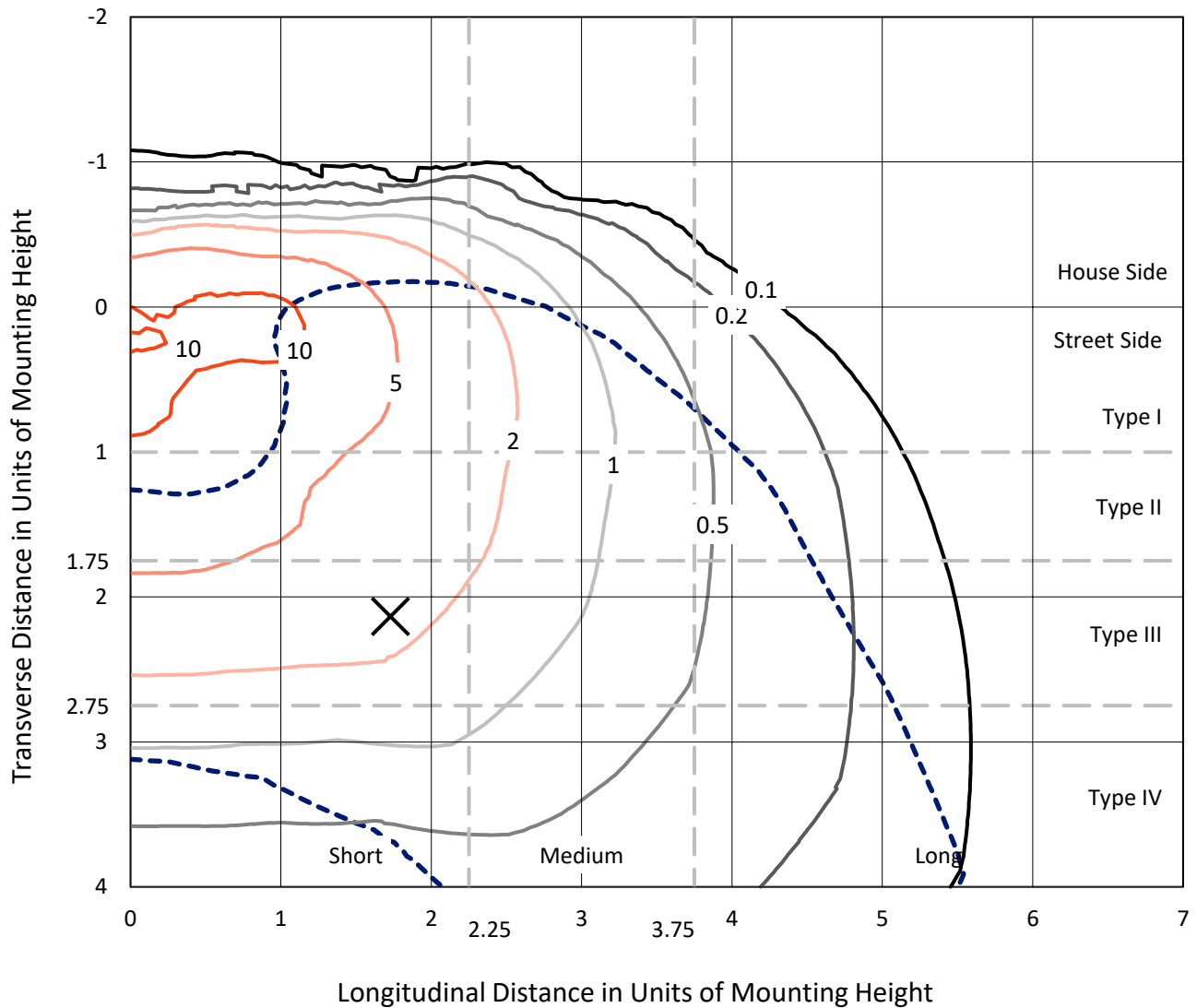
Input Watts (W): 486.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

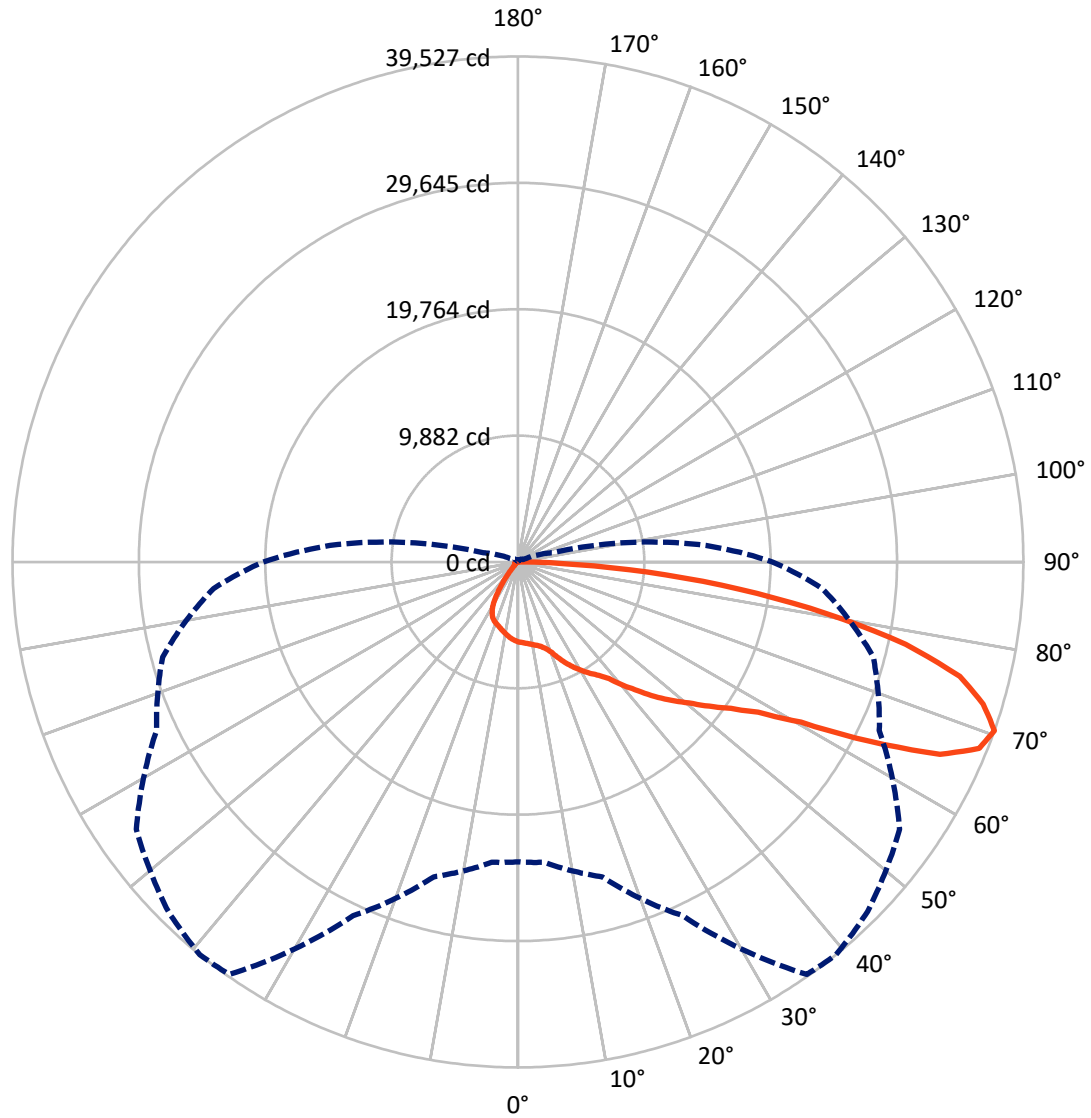
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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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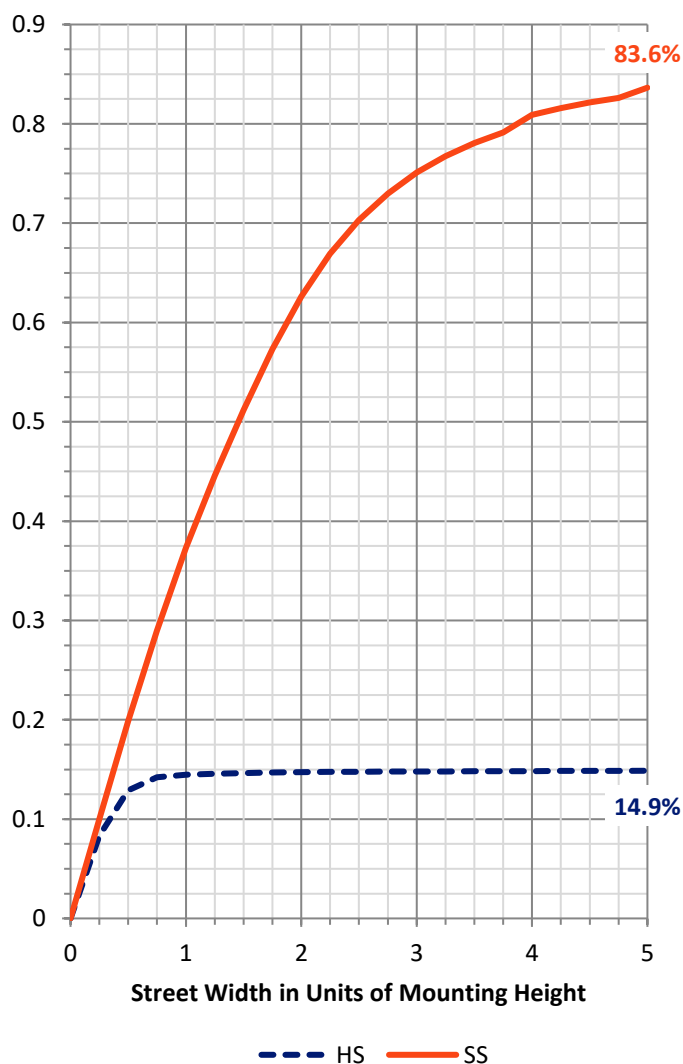
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9623.0	0.0	9623.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	54374.0	0.0	54374.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	63997.0	0.0	63997.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.2	0.9
10°-20°	1793.4	2.8
20°-30°	3307.5	5.2
30°-40°	5231.2	8.2
40°-50°	8200.8	12.8
50°-60°	12107.4	18.9
60°-70°	16602.0	25.9
70°-80°	13283.8	20.8
80°-90°	2876.7	4.5
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°	63997.0	100.0
0°-180°	63997.0	100.0

Coefficient of Utilization



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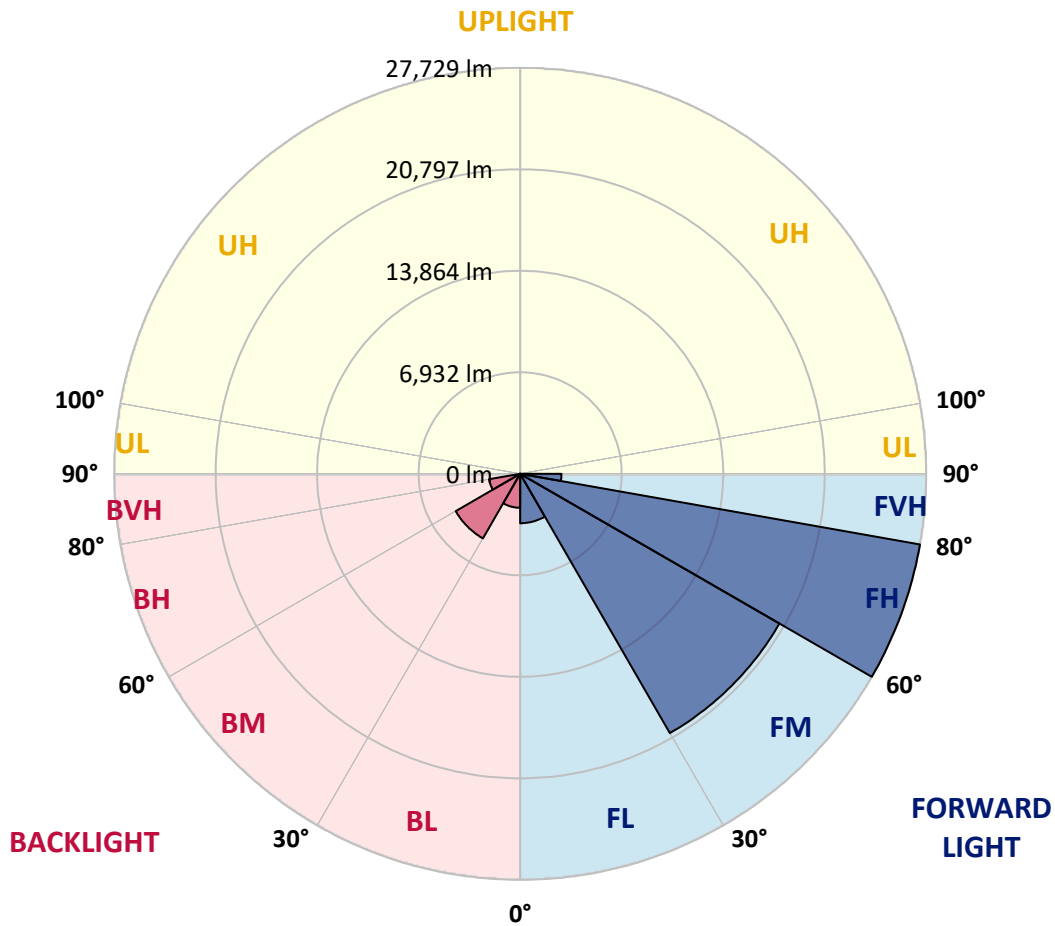
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3375.3	5.3			
FM (30°-60°)	20449.8	32.0			
FH (60°-80°)	27728.8	43.3			G5
FVH (80°-90°)	2820.1	4.4			G5
BL (0°-30°)	2319.8	3.6	B3/2500		
BM (30°-60°)	5089.6	8.0	B4/8500		
BH (60°-80°)	2157.0	3.4	B3/2500		G3/2500
BVH (80°-90°)	56.6	0.1			G1/100
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°	6253.3	6253.3	6253.3	6253.3	6253.3	6253.3	6253.3	6253.3	6253.3	6253.3	6253.3
2.5°	6355.7	6346.0	6376.5	6340.5	6330.8	6299.0	6301.7	6317.0	6329.4	6303.1	6300.3
5°	6431.9	6429.1	6449.9	6415.2	6408.3	6382.0	6372.3	6387.6	6391.7	6351.6	6333.6
7.5°	6505.2	6502.5	6531.5	6491.4	6499.7	6467.9	6455.4	6467.9	6473.4	6424.9	6405.6
10°	6553.7	6550.9	6582.8	6563.4	6598.0	6578.6	6574.4	6595.2	6611.8	6541.2	6510.8
12.5°	6621.5	6620.1	6660.3	6652.0	6704.6	6693.5	6712.9	6754.4	6780.7	6715.7	6663.0
15°	6730.9	6743.3	6780.7	6787.6	6861.0	6867.9	6898.4	6966.2	7007.8	6941.3	6892.9
17.5°	7039.6	7017.5	7070.1	7074.2	7106.1	7126.8	7150.4	7258.3	7319.2	7280.5	7245.9
20°	7634.9	7630.7	7629.4	7598.9	7582.3	7551.8	7560.1	7618.3	7711.0	7716.6	7724.9
22.5°	8382.5	8414.3	8400.5	8307.7	8198.3	8167.9	8129.1	8120.8	8180.3	8214.9	8263.4
25°	9113.4	9091.3	9121.7	8929.3	8810.2	8768.7	8749.3	8774.2	8801.9	8842.1	8919.6
27.5°	9654.7	9628.4	9603.5	9473.4	9370.9	9326.6	9341.8	9434.6	9538.4	9560.6	9685.2
30°	10121.2	10072.8	10042.3	9975.9	9905.3	9852.7	9867.9	10083.9	10353.8	10449.3	10676.4
32.5°	10938.0	10910.3	10752.5	10413.4	10387.0	10378.7	10394.0	10748.4	11167.8	11440.6	11806.0
35°	11879.4	11850.3	11699.4	11361.7	10929.7	10881.3	10947.7	11347.8	12035.9	12736.4	13317.8
37.5°	12905.2	12919.1	12786.2	12361.2	11829.6	11579.0	11504.2	12034.5	12919.1	14386.5	14961.1
40°	14293.8	14221.8	13928.3	13342.7	12912.2	12678.2	12307.2	12743.3	14008.6	16151.6	16853.5
42.5°	15372.2	15375.0	15052.4	14472.4	13895.1	13760.8	13514.4	13676.3	15319.6	18167.3	18575.7
45°	16233.3	16309.4	16114.3	15564.7	15174.3	15001.2	14806.0	15152.1	16889.5	20149.7	20189.9
47.5°	17030.7	17083.3	16892.3	16536.5	16262.4	16162.7	16248.5	16926.9	18552.2	21907.9	21553.5
50°	18318.2	18249.0	17570.6	17315.9	17239.8	17321.4	17668.9	18649.1	20818.4	23450.1	22872.8
52.5°	20537.4	20109.6	18894.1	18478.8	18524.5	18739.0	19126.7	20248.0	23026.5	24889.9	23891.7
55°	23588.6	22976.7	21452.4	20220.3	19962.8	20205.1	20645.3	21787.5	25017.2	26116.4	24718.2
57.5°	25663.7	25543.3	24877.4	23398.9	21873.3	22158.5	22468.6	23475.0	26570.5	27301.5	25422.9
60°	27635.1	27725.1	28234.5	27469.0	25914.3	25443.6	24649.0	25229.0	28042.1	28288.5	25890.8
62.5°	29191.2	29339.3	30748.6	30805.4	31702.4	30889.8	28713.5	27208.7	29361.4	28939.2	26050.0
65°	29103.9	29177.3	31259.4	32722.7	35970.5	36268.1	34810.4	29933.2	30705.7	29264.5	25889.4
67.5°	26641.1	26902.8	28800.8	32510.9	38490.1	38905.4	38156.4	34462.9	31474.0	29221.6	25252.6
70°	23457.0	23571.9	25487.9	30524.3	39371.9	39527.0	38665.9	36434.3	31179.1	28768.9	23897.3
72.5°	19256.8	19519.8	21376.3	26551.1	38137.1	38042.9	37552.9	36016.2	30612.9	27525.7	20929.1
75°	14963.8	15139.6	16845.2	21690.6	34899.0	35683.9	35321.2	34608.3	28911.5	24338.9	15582.6
77.5°	10137.9	10614.1	12260.1	16749.7	29001.5	31006.1	32127.4	31557.1	24891.3	18437.3	9016.5
80°	5752.1	5606.8	7724.9	11687.0	22248.5	24542.4	26123.4	25326.0	17738.1	9865.1	2377.0
82.5°	1832.9	2037.8	3634.0	7089.4	15707.2	17472.3	18635.2	16568.3	8965.3	2570.8	488.7
85°	833.4	897.1	1502.1	3463.7	9199.2	10125.4	10198.8	7309.6	1442.5	510.8	304.6
87.5°	348.9	348.9	711.6	1553.3	3967.6	3220.1	2035.0	2087.7	292.1	231.2	159.2
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°	6253.3	6253.3	6253.3	6253.3	6253.3	6253.3	6253.3	6253.3	6253.3	6253.3	6253.3
2.5°	6272.7	6269.9	6254.7	6206.2	6166.1	6155.0	6155.0	6127.3	6132.8	6137.0	6110.7
5°	6300.3	6292.0	6243.6	6163.3	6084.4	6034.5	6016.5	5969.5	5955.6	5934.9	5916.9
7.5°	6352.9	6329.4	6247.7	6131.4	6009.6	5921.0	5854.6	5767.4	5721.7	5706.4	5667.7
10°	6459.5	6418.0	6300.3	6130.1	5947.3	5784.0	5653.8	5526.5	5448.9	5389.4	5363.1
12.5°	6606.3	6555.1	6405.6	6175.7	5907.2	5663.5	5451.7	5271.7	5152.7	5083.5	5065.5
15°	6827.8	6769.6	6575.8	6272.7	5900.3	5554.2	5252.4	4975.5	4806.6	4679.2	4654.3
17.5°	7179.4	7133.7	6870.7	6451.2	5969.5	5493.2	5044.7	4632.2	4331.7	4191.9	4135.2
20°	7664.0	7604.4	7295.7	6726.7	6113.4	5466.9	4844.0	4268.1	3829.2	3537.1	3462.3
22.5°	8237.1	8148.5	7745.6	7025.8	6246.3	5426.8	4652.9	3905.4	3282.4	2813.1	2760.5
25°	8907.1	8806.1	8156.8	7263.9	6300.3	5324.3	4398.2	3490.0	2609.6	2111.2	2083.5
27.5°	9650.6	9424.9	8565.2	7448.0	6258.8	5118.1	4024.4	2861.5	1882.8	1497.9	1432.8
30°	10522.7	10139.2	8951.4	7560.1	6135.6	4794.1	3490.0	2026.7	1248.7	966.3	958.0
32.5°	11461.3	10929.7	9337.7	7582.3	5904.4	4347.0	2633.1	1281.9	711.6	556.5	563.4
35°	12797.3	11979.1	9758.5	7526.9	5533.4	3688.0	1736.0	731.0	394.5	350.2	332.3
37.5°	14285.5	13272.1	10218.2	7322.0	4981.0	2778.5	1036.9	355.8	290.7	278.3	274.1
40°	16029.8	14700.8	10752.5	7014.7	4269.4	1907.7	487.3	279.6	265.8	258.9	258.9
42.5°	17648.2	16166.9	11437.8	6604.9	3444.4	1111.7	323.9	268.6	239.5	236.7	238.1
45°	19111.4	17440.5	12060.8	6125.9	2590.2	560.7	312.9	239.5	213.2	213.2	213.2
47.5°	20411.4	18495.4	12510.7	5522.3	1774.8	371.0	312.9	218.7	193.8	192.4	193.8
50°	21499.5	19382.8	12800.0	4862.0	1045.2	347.5	286.6	207.7	175.8	180.0	180.0
52.5°	22339.8	20018.2	12837.4	4045.2	573.1	339.2	272.7	192.4	160.6	184.1	189.7
55°	23014.0	20434.9	12621.4	3106.6	419.5	318.4	267.2	178.6	159.2	209.0	218.7
57.5°	23439.0	20621.8	12103.7	2108.4	389.0	292.1	249.2	163.4	150.9	185.5	192.4
60°	23655.0	20556.7	11324.3	1320.7	380.7	285.2	229.8	156.4	134.3	134.3	135.7
62.5°	23607.9	20196.8	10255.5	791.9	355.8	274.1	216.0	150.9	112.1	91.4	91.4
65°	23073.6	19395.2	8529.2	567.6	337.8	272.7	206.3	142.6	95.5	70.6	66.5
67.5°	21984.0	17839.2	5958.4	495.6	346.1	272.7	206.3	137.1	90.0	56.8	51.2
70°	19922.7	14765.9	2784.0	454.1	358.6	283.8	210.4	135.7	80.3	44.3	40.1
72.5°	16097.6	10226.5	678.3	368.2	361.3	283.8	227.0	134.3	72.0	34.6	30.5
75°	10351.1	4824.6	483.2	282.4	318.4	272.7	229.8	160.6	76.1	22.2	19.4
77.5°	4137.9	927.5	427.8	198.0	299.0	303.2	249.2	170.3	94.1	11.1	5.5
80°	713.0	431.9	400.1	132.9	246.4	310.1	196.6	141.2	90.0	4.2	0.0
82.5°	402.9	366.9	339.2	81.7	188.3	209.0	120.4	101.1	88.6	4.2	0.0
85°	303.2	304.6	148.1	62.3	90.0	130.1	47.1	29.1	80.3	2.8	0.0
87.5°	175.8	95.5	48.5	37.4	37.4	51.2	18.0	12.5	11.1	2.8	1.4
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)