

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: P622551

Luminaire Tested: **PRV-M-C275-D-U-T4-BZ-7030-HSS**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622551  
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-C275-D-U-T4-BZ-7030-HSS  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

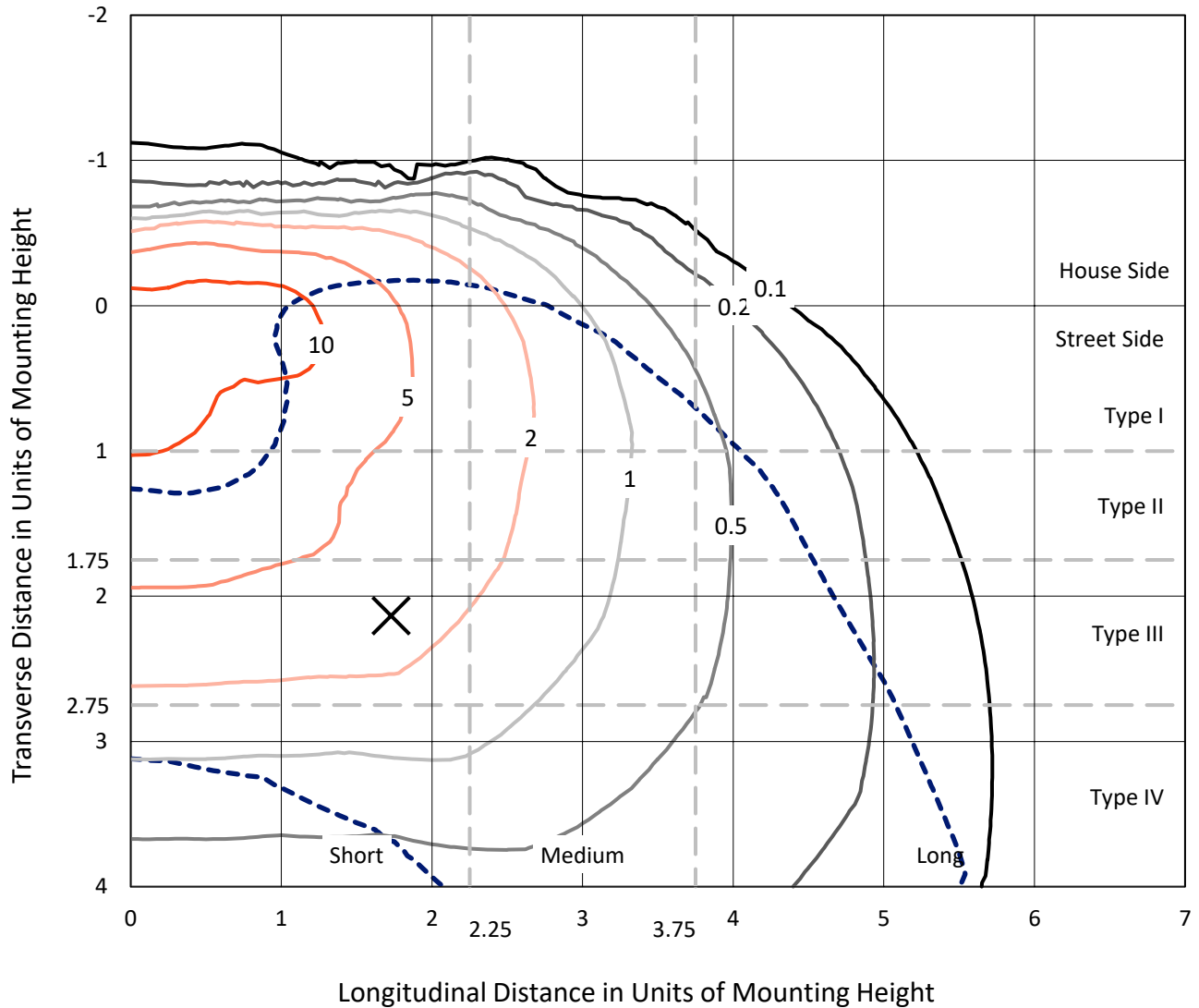
Lumens per Lamp: N/A  
Luminaire Lumens: 71511 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 587.5  
Input Voltage (V): NR  
Input Current (Ain): 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

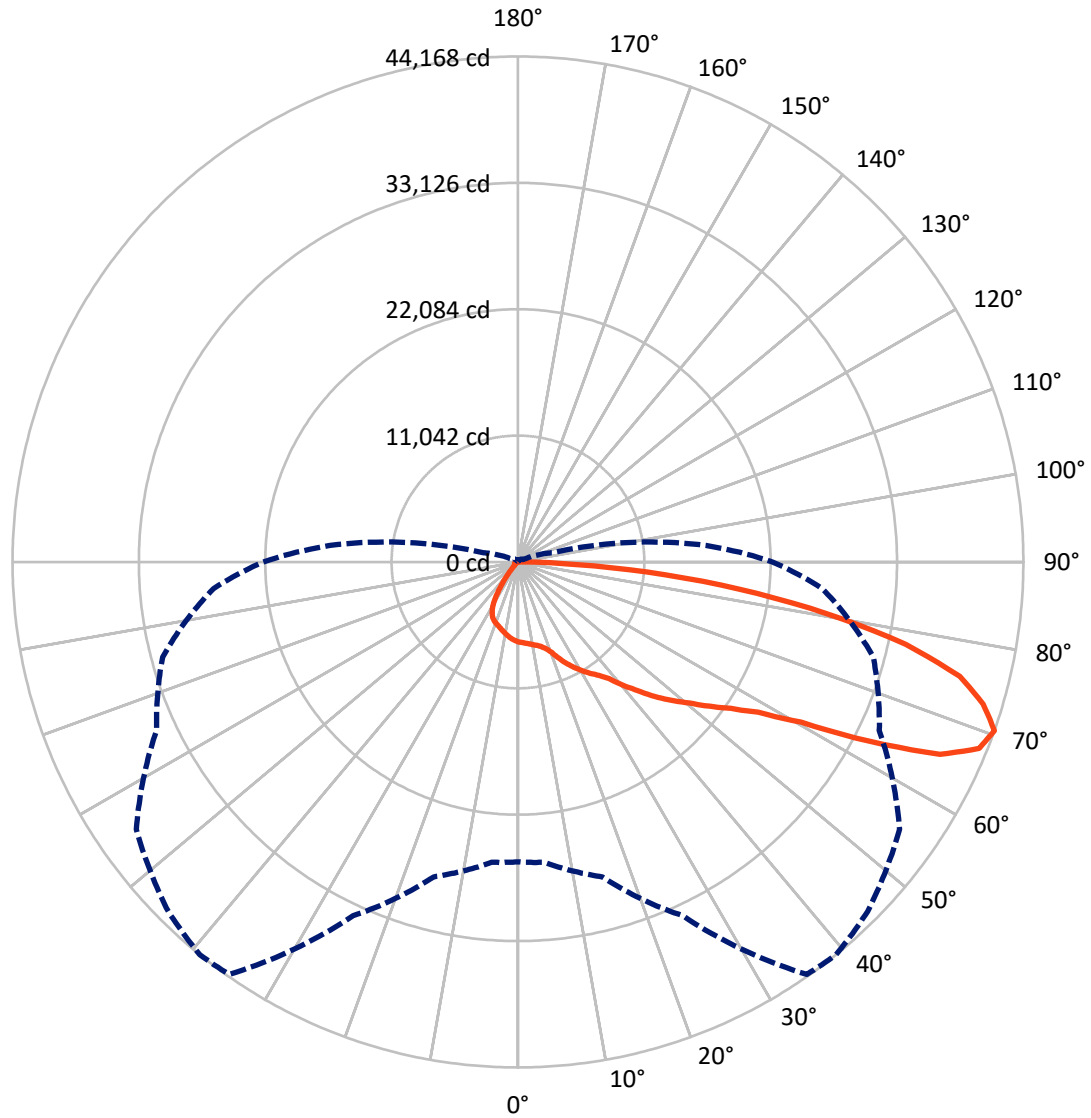
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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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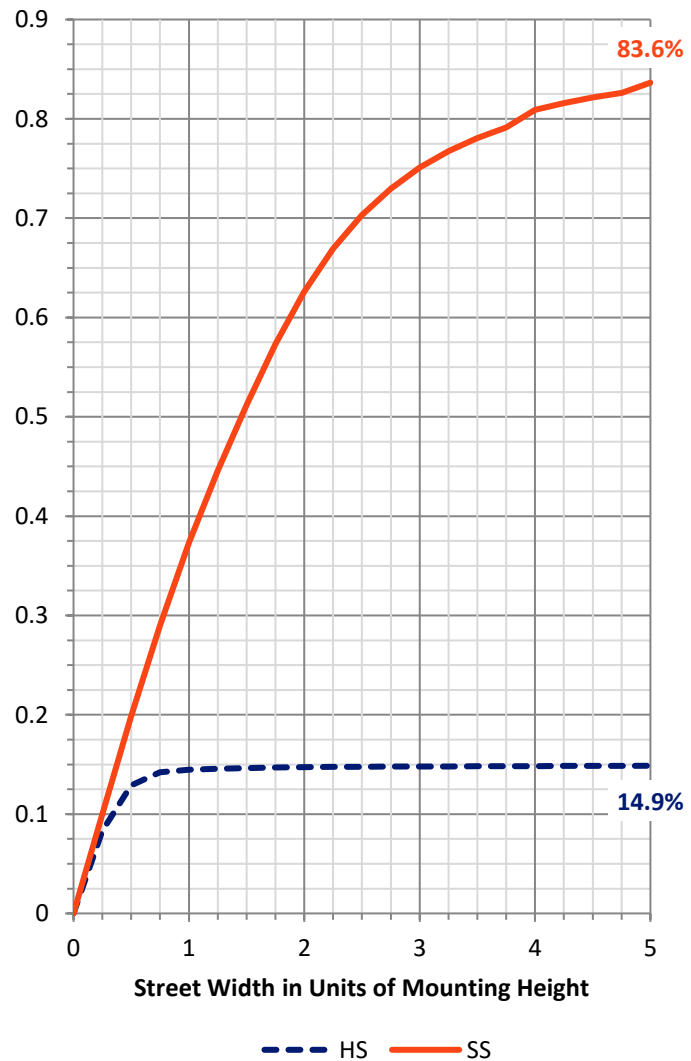
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10752.9	0.0	10752.9
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	60758.1	0.0	60758.1
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	71511.0	0.0	71511.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	663.9	0.9
10°-20°	2004.0	2.8
20°-30°	3695.8	5.2
30°-40°	5845.5	8.2
40°-50°	9163.6	12.8
50°-60°	13528.9	18.9
60°-70°	18551.3	25.9
70°-80°	14843.4	20.8
80°-90°	3214.5	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°	71511.0	100.0
0°-180°	71511.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P622551

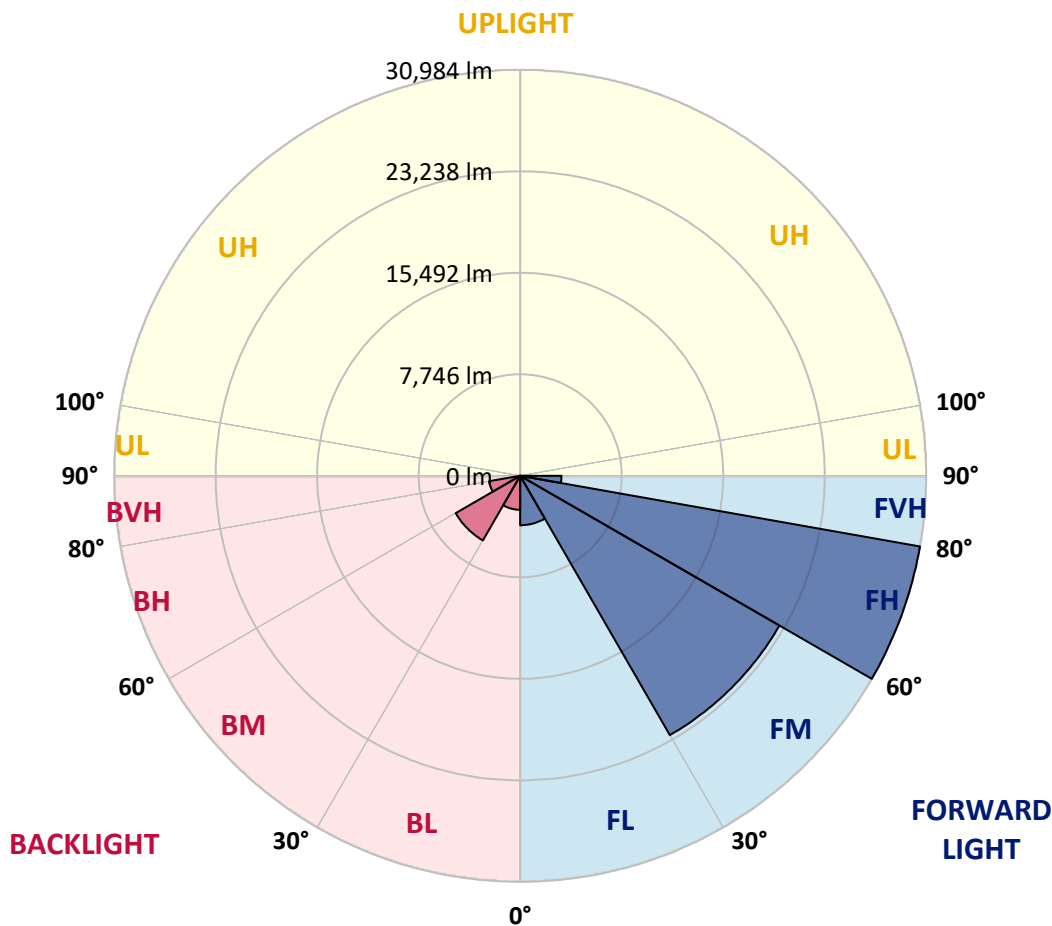
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3771.6	5.3			
FM (30°-60°)	22850.8	32.0			
FH (60°-80°)	30984.5	43.3			G5
FVH (80°-90°)	3151.2	4.4			G5
BL (0°-30°)	2592.2	3.6	B4/5000		
BM (30°-60°)	5687.2	8.0	B4/8500		
BH (60°-80°)	2410.3	3.4	B3/2500		G3/2500
BVH (80°-90°)	63.3	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°	6987.5	6987.5	6987.5	6987.5	6987.5	6987.5	6987.5	6987.5	6987.5	6987.5	6987.5
2.5°	7102.0	7091.1	7125.2	7084.9	7074.1	7038.5	7041.6	7058.6	7072.6	7043.2	7040.1
5°	7187.0	7183.9	7207.1	7168.5	7160.7	7131.3	7120.5	7137.5	7142.2	7097.3	7077.2
7.5°	7269.0	7265.9	7298.4	7253.6	7262.8	7227.3	7213.3	7227.3	7233.4	7179.3	7157.6
10°	7323.2	7320.1	7355.6	7334.0	7372.7	7351.0	7346.4	7369.6	7388.1	7309.2	7275.2
12.5°	7399.0	7397.4	7442.3	7433.0	7491.8	7479.4	7501.1	7547.5	7576.9	7504.2	7445.4
15°	7521.2	7535.1	7576.9	7584.6	7666.6	7674.3	7708.3	7784.1	7830.6	7756.3	7702.2
17.5°	7866.1	7841.4	7900.2	7904.8	7940.4	7963.6	7989.9	8110.5	8178.6	8135.3	8096.6
20°	8531.3	8526.7	8525.1	8491.1	8472.5	8438.5	8447.8	8512.8	8616.4	8622.6	8631.9
22.5°	9366.7	9402.2	9386.8	9283.1	9160.9	9126.9	9083.6	9074.3	9140.8	9179.5	9233.6
25°	10183.4	10158.7	10192.7	9977.7	9844.7	9798.2	9776.6	9804.4	9835.4	9880.2	9966.9
27.5°	10788.3	10758.9	10731.0	10585.6	10471.2	10421.7	10438.7	10542.3	10658.3	10683.1	10822.3
30°	11309.6	11255.5	11221.4	11147.2	11068.3	11009.5	11026.5	11267.8	11569.5	11676.2	11929.9
32.5°	12222.3	12191.3	12015.0	11636.0	11606.6	11597.3	11614.3	12010.4	12479.1	12783.8	13192.2
35°	13274.2	13241.7	13073.1	12695.6	12213.0	12158.9	12233.1	12680.2	13449.0	14231.7	14881.5
37.5°	14420.5	14435.9	14287.4	13812.5	13218.5	12938.5	12855.0	13447.5	14435.9	16075.7	16717.7
40°	15972.0	15891.6	15563.7	14909.3	14428.2	14166.8	13752.2	14239.5	15653.4	18048.0	18832.3
42.5°	17177.1	17180.2	16819.8	16171.6	15526.5	15376.5	15101.1	15282.1	17118.3	20300.3	20756.7
45°	18139.3	18224.4	18006.3	17392.1	16955.9	16762.5	16544.4	16931.1	18872.5	22515.6	22560.4
47.5°	19030.3	19089.1	18875.6	18478.1	18171.8	18060.4	18156.3	18914.3	20730.4	24480.2	24084.1
50°	20469.0	20391.6	19633.6	19349.0	19263.9	19355.2	19743.5	20838.7	23262.7	26203.4	25558.4
52.5°	22948.7	22470.7	21112.5	20648.4	20699.5	20939.2	21372.4	22625.4	25730.1	27812.2	26696.9
55°	26358.1	25674.4	23971.2	22594.4	22306.7	22577.4	23069.4	24345.6	27954.6	29182.8	27620.4
57.5°	28677.0	28542.4	27798.3	26146.2	24441.5	24760.1	25106.7	26231.3	29690.2	30507.0	28407.8
60°	30879.8	30980.3	31549.6	30694.2	28957.0	28431.0	27543.1	28191.2	31334.6	31609.9	28930.7
62.5°	32618.5	32784.1	34358.8	34422.3	35424.7	34516.6	32084.9	30403.3	32808.8	32337.0	29108.6
65°	32521.1	32603.1	34929.7	36564.8	40193.9	40526.4	38897.5	33447.7	34310.9	32700.5	28929.1
67.5°	29769.1	30061.5	32182.3	36328.1	43009.3	43473.3	42636.5	38509.3	35169.4	32652.6	28217.5
70°	26211.2	26339.6	28480.5	34108.2	43994.7	44167.9	43205.7	40712.1	34839.9	32146.7	26703.1
72.5°	21517.8	21811.7	23886.1	29668.6	42614.8	42509.6	41962.0	40244.9	34207.2	30757.6	23386.5
75°	16720.8	16917.2	18823.0	24237.3	38996.5	39873.6	39468.3	38671.7	32306.1	27196.6	17412.2
77.5°	11328.2	11860.3	13699.6	18716.3	32406.6	34646.6	35899.6	35262.2	27813.8	20602.0	10075.1
80°	6427.5	6265.1	8631.9	13059.2	24860.7	27424.0	29190.6	28299.5	19820.8	11023.4	2656.1
82.5°	2048.1	2277.1	4060.7	7921.8	17551.5	19523.8	20823.2	18513.6	10017.9	2872.6	546.1
85°	931.3	1002.4	1678.4	3870.4	10279.3	11314.2	11396.2	8167.8	1611.9	570.8	340.3
87.5°	389.8	389.8	795.1	1735.7	4433.5	3598.2	2274.0	2332.8	326.4	258.3	177.9
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°	6987.5	6987.5	6987.5	6987.5	6987.5	6987.5	6987.5	6987.5	6987.5	6987.5	6987.5
2.5°	7009.1	7006.0	6989.0	6934.9	6890.0	6877.6	6877.6	6846.7	6852.9	6857.5	6828.1
5°	7040.1	7030.8	6976.6	6886.9	6798.8	6743.1	6723.0	6670.4	6654.9	6631.7	6611.6
7.5°	7098.9	7072.6	6981.3	6851.3	6715.2	6616.2	6542.0	6444.5	6393.5	6376.4	6333.1
10°	7218.0	7171.6	7040.1	6849.8	6645.6	6463.1	6317.7	6175.3	6088.7	6022.2	5992.8
12.5°	7381.9	7324.7	7157.6	6900.9	6600.7	6328.5	6091.8	5890.7	5757.7	5680.3	5660.2
15°	7629.5	7564.5	7347.9	7009.1	6593.0	6206.3	5869.0	5559.7	5370.9	5228.6	5200.8
17.5°	8022.4	7971.3	7677.4	7208.7	6670.4	6138.2	5637.0	5176.0	4840.3	4684.1	4620.7
20°	8563.8	8497.3	8152.3	7516.5	6831.2	6108.8	5412.7	4769.2	4278.8	3952.4	3868.9
22.5°	9204.2	9105.2	8655.1	7850.7	6979.7	6064.0	5199.2	4363.9	3667.8	3143.4	3084.6
25°	9952.9	9840.0	9114.5	8116.7	7040.1	5949.5	4914.6	3899.8	2916.0	2359.1	2328.1
27.5°	10783.6	10531.5	9570.9	8322.5	6993.7	5719.0	4496.9	3197.5	2103.8	1673.8	1601.1
30°	11758.2	11329.7	10002.4	8447.8	6856.0	5357.0	3899.8	2264.7	1395.3	1079.8	1070.5
32.5°	12807.0	12213.0	10434.0	8472.5	6597.7	4857.4	2942.3	1432.5	795.1	621.9	629.6
35°	14299.8	13385.6	10904.3	8410.7	6183.1	4121.0	1939.8	816.8	440.9	391.4	371.3
37.5°	15962.8	14830.4	11417.9	8181.7	5565.9	3104.7	1158.6	397.6	324.9	310.9	306.3
40°	17911.9	16426.8	12015.0	7838.3	4770.7	2131.7	544.5	312.5	297.0	289.3	289.3
42.5°	19720.3	18065.0	12780.7	7380.4	3848.8	1242.2	362.0	300.1	267.6	264.5	266.1
45°	21355.4	19488.2	13476.8	6845.2	2894.3	626.5	349.6	267.6	238.2	238.2	238.2
47.5°	22807.9	20667.0	13979.6	6170.7	1983.2	414.6	349.6	244.4	216.6	215.0	216.6
50°	24023.8	21658.6	14302.9	5432.8	1167.9	388.3	320.2	232.0	196.5	201.1	201.1
52.5°	24962.8	22368.6	14344.7	4520.1	640.4	379.0	304.7	215.0	179.4	205.7	211.9
55°	25716.1	22834.2	14103.4	3471.3	468.7	355.8	298.6	199.6	177.9	233.6	244.4
57.5°	26191.1	23043.1	13524.8	2356.0	434.7	326.4	278.4	182.5	168.6	207.3	215.0
60°	26432.4	22970.3	12653.9	1475.8	425.4	318.7	256.8	174.8	150.1	150.1	151.6
62.5°	26379.8	22568.1	11459.7	884.8	397.6	306.3	241.3	168.6	125.3	102.1	102.1
65°	25782.7	21672.5	9530.6	634.2	377.5	304.7	230.5	159.3	106.7	78.9	74.3
67.5°	24565.2	19933.7	6658.0	553.8	386.7	304.7	230.5	153.1	100.6	63.4	57.2
70°	22261.9	16499.5	3110.9	507.4	400.7	317.1	235.1	151.6	89.7	49.5	44.9
72.5°	17987.7	11427.2	758.0	411.5	403.7	317.1	253.7	150.1	80.4	38.7	34.0
75°	11566.4	5391.0	539.9	315.6	355.8	304.7	256.8	179.4	85.1	24.8	21.7
77.5°	4623.8	1036.4	478.0	221.2	334.1	338.8	278.4	190.3	105.2	12.4	6.2
80°	796.7	482.6	447.1	148.5	275.4	346.5	219.7	157.8	100.6	4.6	0.0
82.5°	450.2	409.9	379.0	91.3	210.4	233.6	134.6	112.9	99.0	4.6	0.0
85°	338.8	340.3	165.5	69.6	100.6	145.4	52.6	32.5	89.7	3.1	0.0
87.5°	196.5	106.7	54.1	41.8	41.8	57.2	20.1	13.9	12.4	3.1	1.5
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)