

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: P622445

Luminaire Tested: **PRV-M-C225-D-U-T2-BZ-HSS**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622445  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/29/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-M-C225-D-U-T2-BZ-HSS  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 55220 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 II - Short  
BUG Rating: B4 - U0 - G5

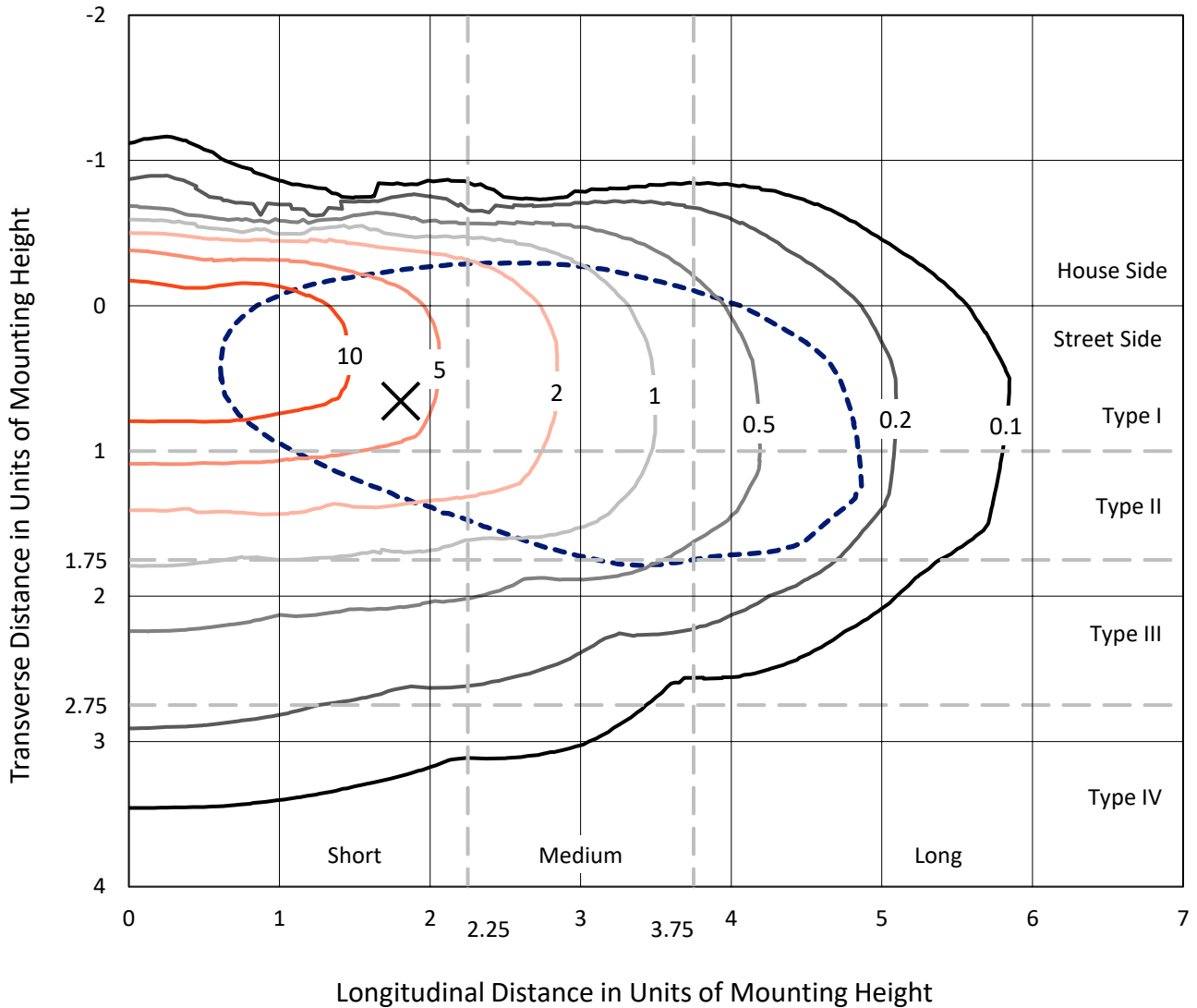
Input Watts (W): 418.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

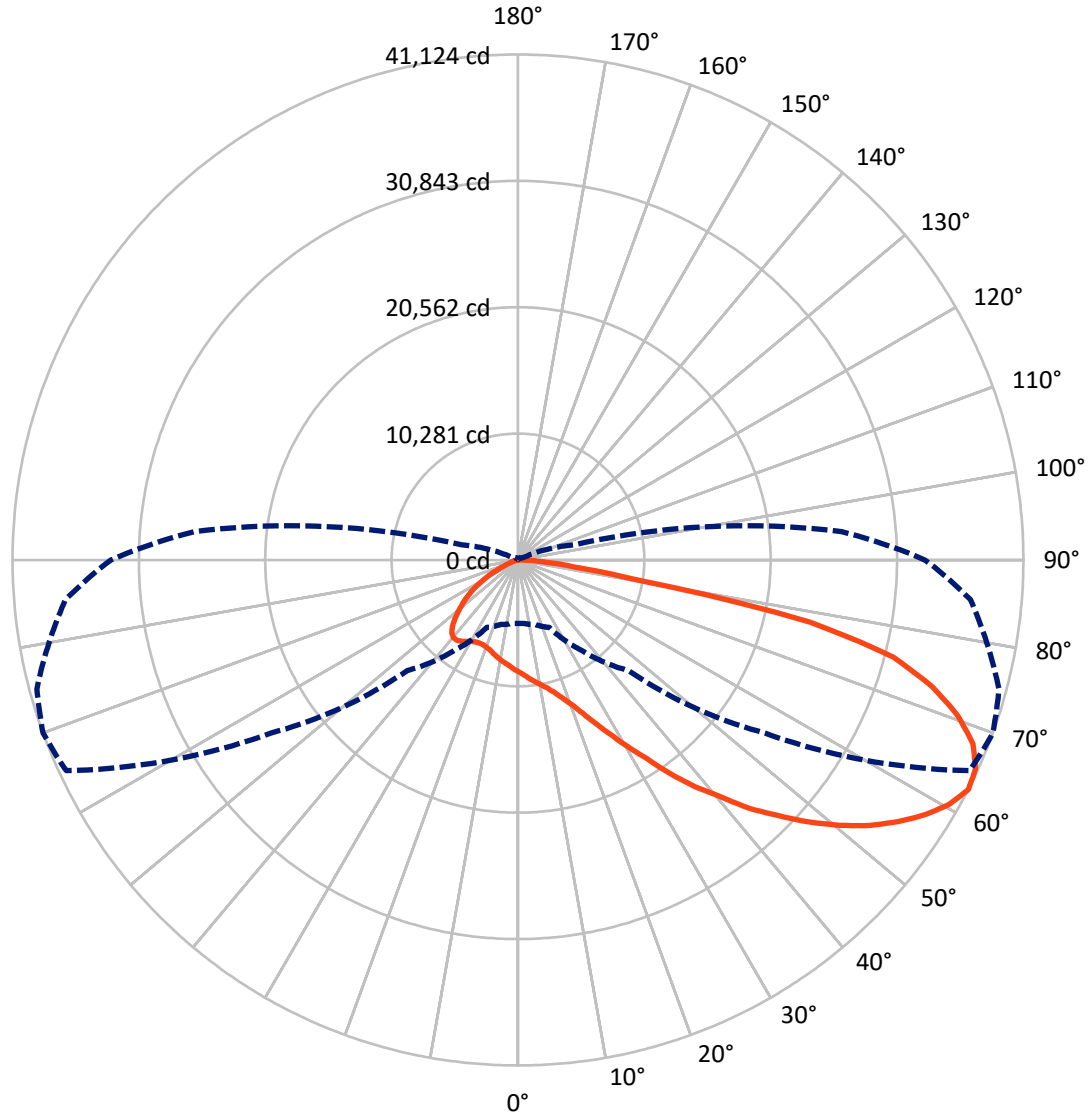
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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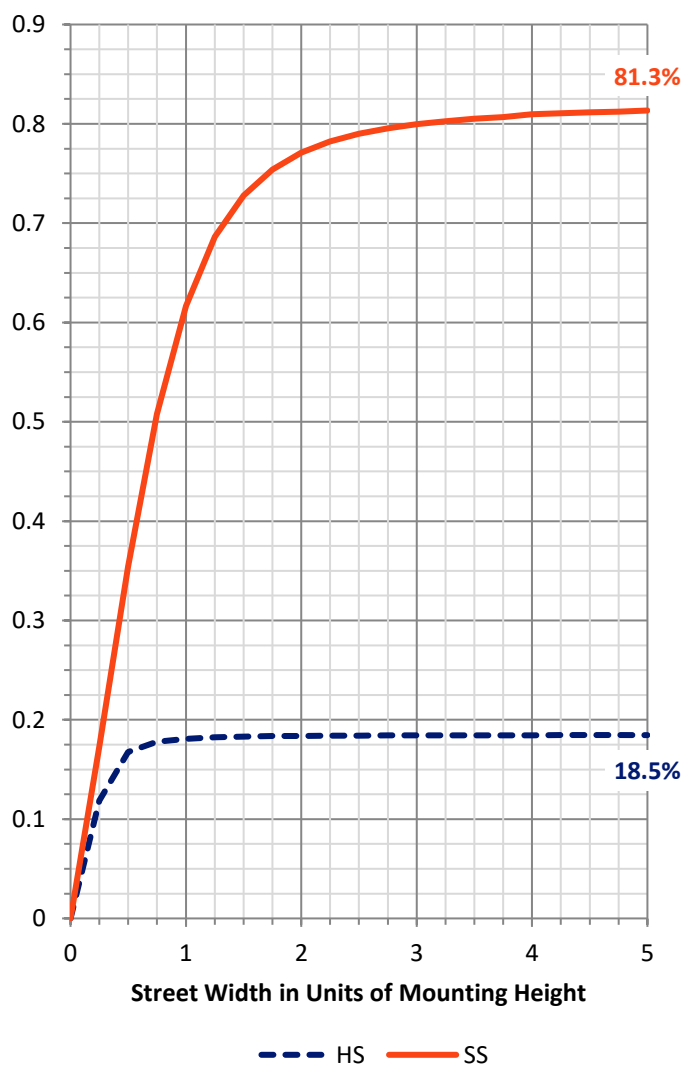
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10312.9	0.0	10312.9
	% Fixture	18.7	0.0	18.7
<b>Street Side</b>	Lumens	44907.1	0.0	44907.1
	% Fixture	81.3	0.0	81.3
<b>Total</b>	Lumens	55220.0	0.0	55220.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	874.0	1.6
10°-20°	2648.9	4.8
20°-30°	4579.3	8.3
30°-40°	6929.3	12.5
40°-50°	9436.0	17.1
50°-60°	11141.5	20.2
60°-70°	11267.1	20.4
70°-80°	7404.2	13.4
80°-90°	939.6	1.7
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°	55220.0	100.0
0°-180°	55220.0	100.0

**Coefficient of Utilization**

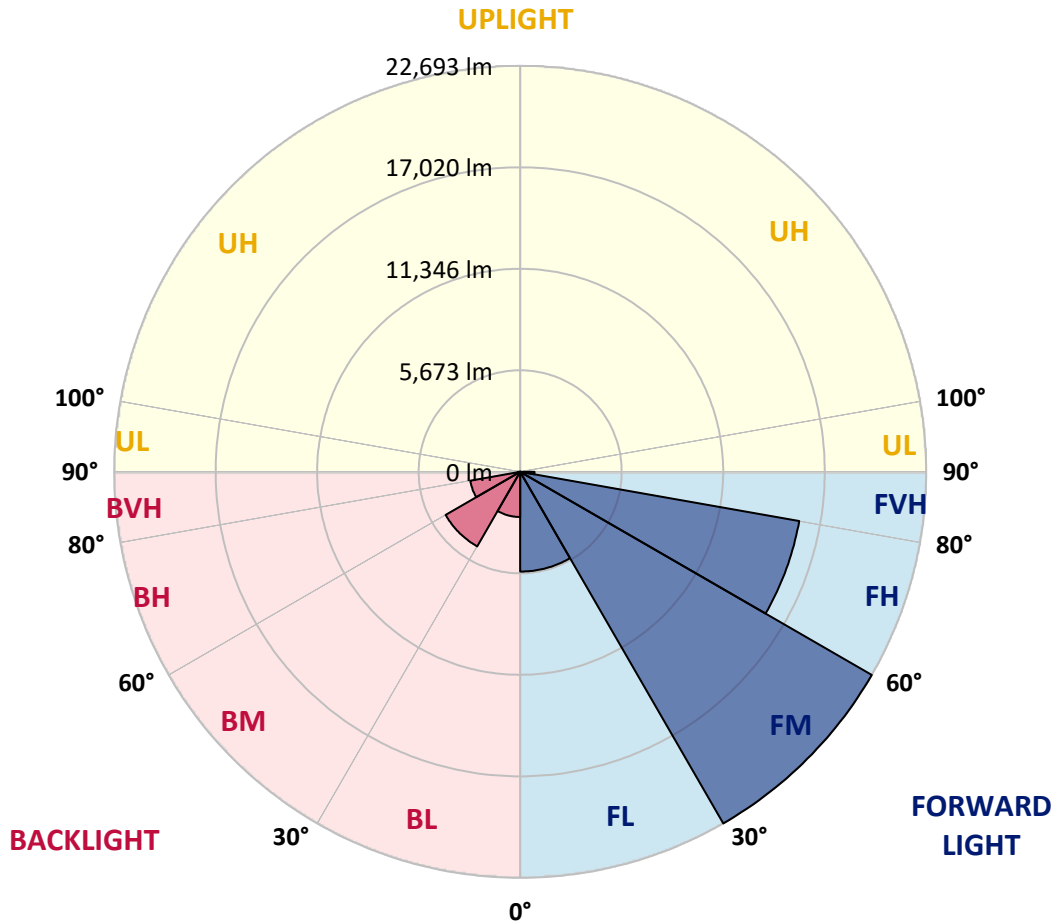


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5574.1	10.1			
FM (30°-60°)	22692.7	41.1			
FH (60°-80°)	15838.1	28.7			G5
FVH (80°-90°)	802.2	1.5			G5
BL (0°-30°)	2528.2	4.6	B4/5000		
BM (30°-60°)	4814.1	8.7	B3/5000		
BH (60°-80°)	2833.2	5.1	B4/5000		G4/5000
BVH (80°-90°)	137.5	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	9103.9	9103.9	9103.9	9103.9	9103.9	9103.9	9103.9	9103.9	9103.9	9103.9	9103.9
2.5°	9769.8	9766.3	9791.1	9771.0	9693.1	9575.0	9532.5	9435.7	9361.3	9307.0	9211.4
5°	10486.5	10487.6	10492.4	10405.0	10282.2	10128.7	9977.6	9801.7	9677.7	9545.5	9320.0
7.5°	11122.8	11134.6	11140.5	11061.4	10892.6	10667.1	10429.8	10184.2	9996.5	9831.2	9465.2
10°	11663.6	11693.1	11681.3	11630.5	11440.4	11232.6	10926.8	10569.1	10321.2	10099.2	9605.7
12.5°	12212.6	12225.6	12194.9	12082.7	11952.8	11732.0	11415.6	11013.0	10702.5	10439.2	9793.4
15°	12771.0	12772.2	12721.4	12606.9	12421.5	12245.6	11971.7	11540.8	11198.4	10873.7	10068.5
17.5°	13223.2	13265.7	13194.9	13112.2	12976.4	12769.8	12589.2	12180.7	11824.1	11452.2	10466.4
20°	13635.2	13670.7	13675.4	13596.3	13545.5	13389.7	13248.0	12935.1	12563.2	12153.5	10997.7
22.5°	13969.4	14011.9	14065.0	14131.1	14210.2	14126.4	14100.4	13873.7	13553.8	13100.4	11747.4
25°	14203.1	14243.3	14453.4	14682.5	14853.7	14972.9	15100.4	15042.6	14759.2	14251.5	12729.7
27.5°	14304.7	14362.5	14662.4	15100.4	15550.2	15843.0	16222.0	16353.1	16093.3	15696.6	13918.6
30°	14337.7	14406.2	14767.5	15351.9	16153.6	16786.4	17330.7	17755.7	17631.7	17222.0	15351.9
32.5°	14209.0	14256.3	14663.6	15482.9	16615.2	17735.6	18455.8	19268.1	19255.1	19060.3	16996.5
35°	13775.7	13853.7	14372.0	15464.1	17008.3	18591.6	19572.7	20919.8	21353.1	21154.8	19007.2
37.5°	13212.6	13288.1	13916.2	15233.8	17243.3	19322.4	20814.7	22823.0	23388.5	23104.0	20780.5
40°	12549.0	12647.0	13344.8	14815.9	17307.0	19902.1	21926.9	24668.3	25266.9	25107.5	22566.8
42.5°	11753.3	11869.0	12660.0	14307.0	17181.9	20351.9	23074.5	26878.5	27622.3	27413.3	24328.3
45°	10978.8	11016.6	11752.1	13457.0	16851.3	20707.3	24063.9	28661.3	29661.3	29429.9	26187.8
47.5°	10181.9	10275.1	10975.3	12523.1	16089.8	20825.4	24997.7	30738.0	31839.6	31560.9	28198.5
50°	8432.1	8541.9	10027.2	11631.7	15072.1	20584.5	25968.2	32808.9	33930.5	33415.7	29950.5
52.5°	6847.7	6918.6	7938.6	10766.3	13835.9	19957.6	26830.1	34879.7	35882.1	35321.3	31582.2
55°	6291.6	6351.9	6785.2	9344.8	12700.2	18779.3	27302.4	36990.7	37558.6	36897.4	33157.2
57.5°	5939.8	5998.8	6251.5	7566.7	11512.4	16895.0	27412.2	38540.9	39094.6	38298.9	34501.9
60°	5472.3	5537.2	5912.7	6631.7	10232.6	14640.0	26714.4	39956.5	40333.1	39546.8	35820.7
62.5°	5150.0	5177.1	5434.5	6059.1	8930.4	12710.8	24569.2	40552.7	41124.1	40519.7	36952.9
65°	4763.9	4832.4	5048.4	5616.3	7933.9	11464.0	22291.7	39883.3	40923.4	40761.7	37572.8
67.5°	4342.4	4384.9	4603.3	5067.3	6898.5	10485.3	19976.5	38595.2	39914.0	40058.0	37177.3
70°	3882.0	3882.0	4075.6	4464.0	5691.9	9244.4	16439.3	36654.2	37984.8	38112.3	35179.6
72.5°	3285.7	3296.4	3516.0	3853.6	4722.6	7810.0	12789.9	33408.6	35236.3	35684.9	31908.0
75°	2589.1	2634.0	2883.1	3270.4	3852.4	6268.0	9249.2	26636.5	31529.1	32438.2	27780.5
77.5°	560.8	739.1	1745.0	2264.5	2983.5	4893.8	5699.0	15667.1	24289.4	26302.4	21910.4
80°	249.1	283.4	866.6	1453.4	1733.2	3152.3	3063.8	7052.0	9704.9	14806.4	14321.2
82.5°	122.8	167.7	368.4	912.6	1037.8	1109.8	1175.9	3350.7	4533.7	5478.2	6126.4
85°	34.2	56.7	190.1	364.8	434.5	269.2	436.8	1575.0	2303.4	2639.9	2544.3
87.5°	0.0	0.0	54.3	113.3	100.4	37.8	116.9	501.8	754.4	898.5	775.7
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°	9103.9	9103.9	9103.9	9103.9	9103.9	9103.9	9103.9	9103.9	9103.9	9103.9	9103.9
2.5°	9158.2	9072.1	8965.8	8808.8	8688.3	8586.8	8524.2	8408.5	8379.0	8371.9	8340.1
5°	9194.8	9035.5	8775.7	8501.8	8279.8	8066.1	7928.0	7814.7	7721.4	7741.5	7658.8
7.5°	9276.3	9049.6	8648.2	8252.7	7887.9	7611.6	7392.0	7186.6	7095.7	7095.7	7039.0
10°	9346.0	9052.0	8536.0	8016.6	7538.4	7146.4	6864.3	6674.2	6526.6	6480.5	6461.7
12.5°	9444.0	9063.8	8396.7	7767.4	7217.3	6687.2	6357.8	6124.0	6004.7	5961.1	5853.6
15°	9619.9	9144.1	8270.4	7488.8	6833.6	6257.4	5843.0	5612.8	5475.8	5427.4	5407.3
17.5°	9906.8	9304.6	8183.0	7183.0	6455.8	5833.6	5386.1	5109.8	4968.1	4854.8	4841.8
20°	10291.7	9562.0	8155.9	6941.0	6053.2	5413.2	4879.6	4546.7	4279.8	4116.9	4119.3
22.5°	10867.8	9938.6	8205.5	6722.6	5706.0	4987.0	4368.4	3863.1	3415.6	3219.6	3175.9
25°	11677.7	10507.7	8336.5	6544.3	5357.8	4547.8	3670.6	2925.6	2494.7	2295.2	2251.5
27.5°	12715.5	11309.4	8579.7	6393.2	5028.4	3932.7	2822.9	2099.2	1708.4	1531.3	1458.1
30°	13837.1	12311.7	8965.8	6269.2	4610.4	3082.7	2009.5	1443.9	1082.6	968.1	968.1
32.5°	15451.1	13520.7	9459.3	6127.5	4062.6	2214.9	1338.8	932.7	686.0	610.4	610.4
35°	17174.8	14936.3	10081.5	5964.6	3284.5	1514.8	833.5	550.2	453.4	454.5	453.4
37.5°	18668.3	16185.4	10681.3	5716.7	2395.5	969.3	493.5	399.1	386.1	375.4	386.1
40°	20313.0	17493.6	11116.9	5311.7	1572.6	560.8	351.8	358.9	344.7	320.0	311.7
42.5°	21777.0	18676.6	11412.1	4667.1	990.6	349.5	308.1	322.3	320.0	285.7	264.5
45°	23331.9	19945.8	11545.5	3694.2	544.3	316.4	271.5	301.1	299.9	260.9	239.7
47.5°	24860.8	21119.3	11488.8	2514.8	367.2	289.3	250.3	268.0	276.3	238.5	216.1
50°	26841.9	22180.7	11171.2	1446.3	335.3	270.4	232.6	226.7	244.4	205.4	192.4
52.5°	28387.4	23251.6	10526.6	775.7	317.6	257.4	214.9	190.1	205.4	168.8	178.3
55°	29778.2	24164.2	9399.1	534.8	314.1	244.4	206.6	167.7	171.2	146.4	144.0
57.5°	31161.9	25030.8	7969.3	471.1	318.8	245.6	187.7	146.4	133.4	119.2	99.2
60°	32272.9	25923.4	6371.9	432.1	321.1	243.2	164.1	127.5	96.8	81.5	77.9
62.5°	33125.3	26409.8	4781.6	402.6	312.9	223.1	148.8	106.3	77.9	59.0	56.7
65°	33529.1	26354.3	3222.0	371.9	309.3	213.7	137.0	89.7	61.4	46.0	43.7
67.5°	32877.4	25047.3	2046.1	341.2	303.4	204.3	128.7	77.9	53.1	37.8	35.4
70°	30690.8	22859.6	1216.1	305.8	288.1	187.7	124.0	69.7	46.0	29.5	24.8
72.5°	27184.3	19773.4	767.4	256.2	260.9	158.2	92.1	59.0	39.0	17.7	15.3
75°	22823.0	15882.0	554.9	190.1	212.5	125.1	73.2	50.8	31.9	10.6	9.4
77.5°	17723.8	10694.3	425.0	125.1	141.7	88.5	51.9	39.0	23.6	5.9	4.7
80°	10808.8	6168.9	334.1	70.8	87.4	51.9	23.6	24.8	10.6	1.2	0.0
82.5°	5214.9	2822.9	193.6	37.8	29.5	27.2	5.9	0.0	1.2	0.0	0.0
85°	1824.1	850.1	36.6	22.4	9.4	8.3	0.0	0.0	0.0	0.0	0.0
87.5°	488.8	151.1	10.6	9.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
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)