

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: P622489

Luminaire Tested: **PRV-M-C250-D-U-T2-BZ-7050-HSS**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622489  
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-C250-D-U-T2-BZ-7050-HSS  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K 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: 64749 lumens  
Efficiency: N/A  
Efficacy: 133.1 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

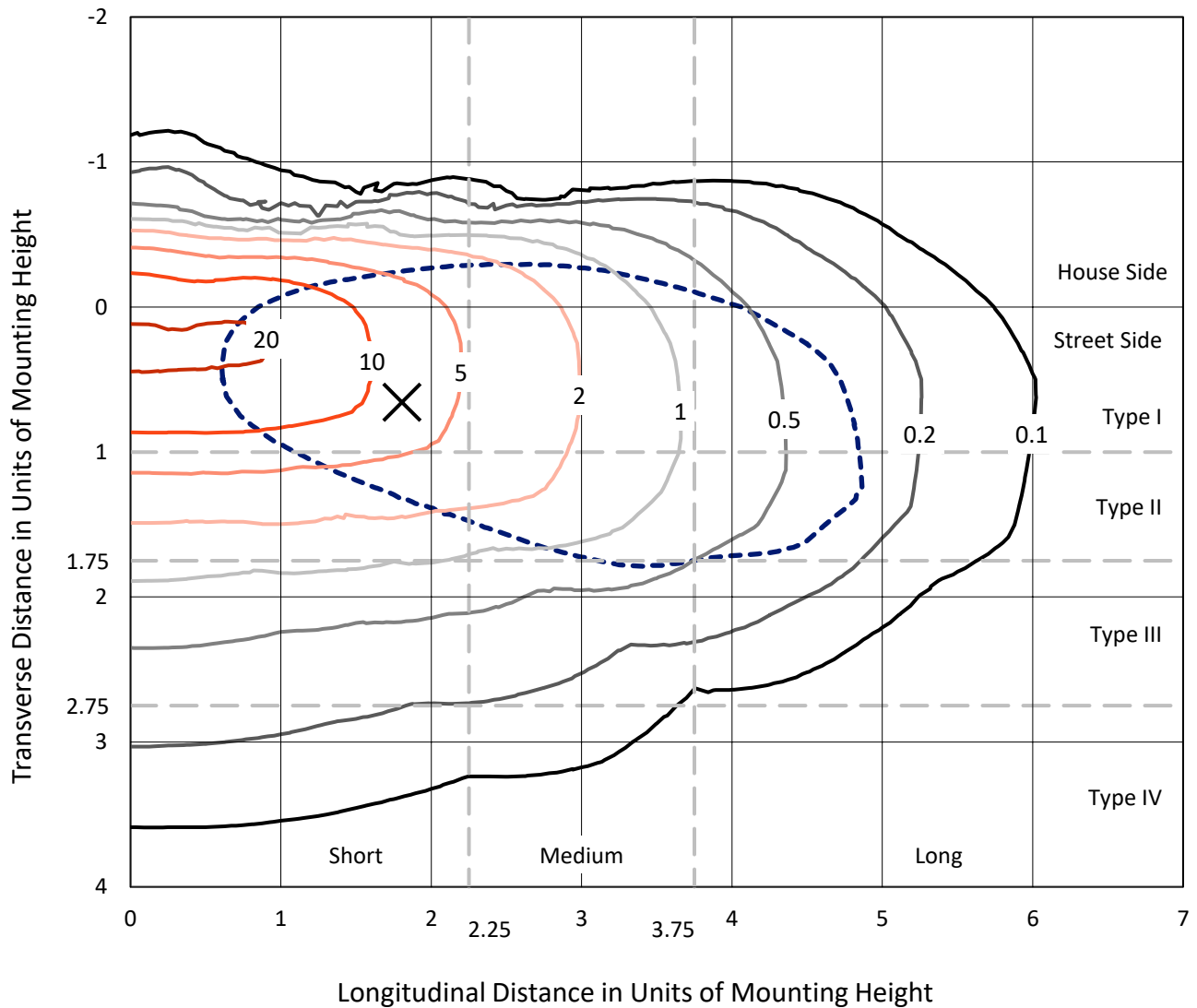
Input Watts (W): 486.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

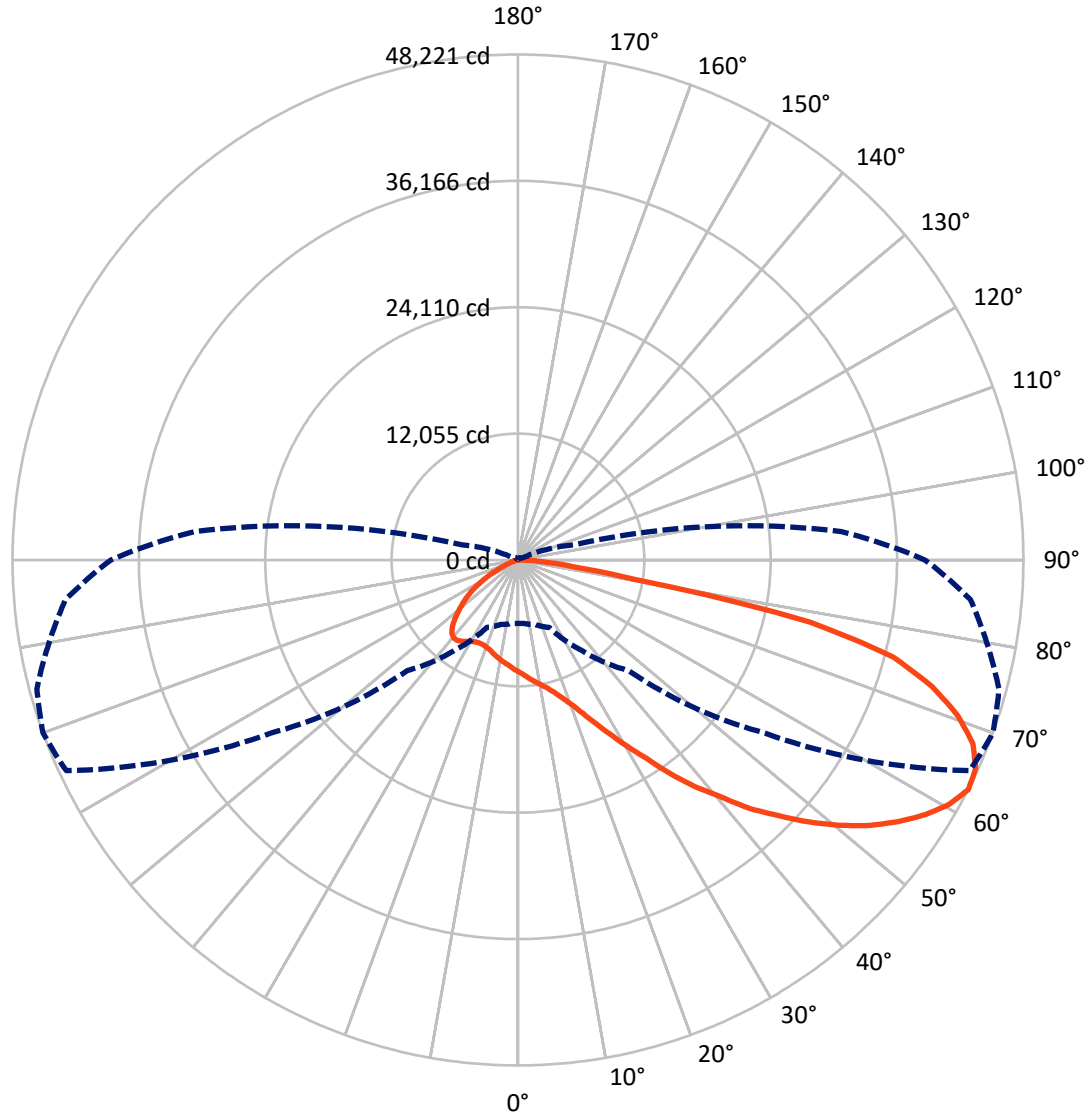
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 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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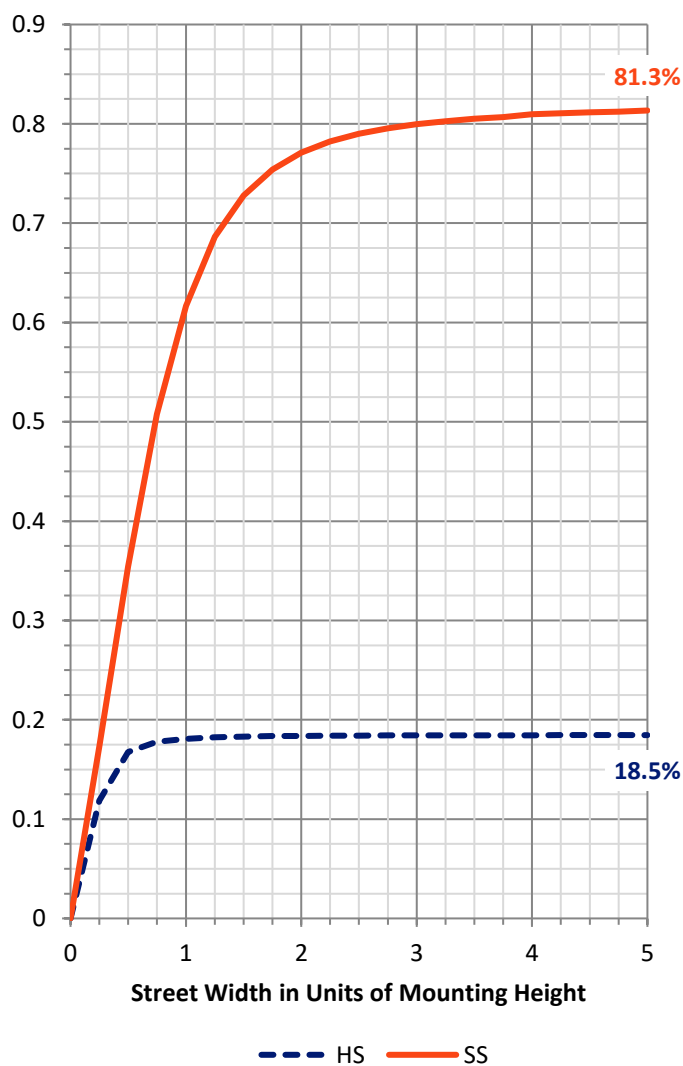
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12092.6	0.0	12092.6
	% Fixture	18.7	0.0	18.7
<b>Street Side</b>	Lumens	52656.4	0.0	52656.4
	% Fixture	81.3	0.0	81.3
<b>Total</b>	Lumens	64749.0	0.0	64749.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1024.8	1.6
10°-20°	3106.1	4.8
20°-30°	5369.6	8.3
30°-40°	8125.1	12.5
40°-50°	11064.3	17.1
50°-60°	13064.1	20.2
60°-70°	13211.4	20.4
70°-80°	8681.9	13.4
80°-90°	1101.8	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°	64749.0	100.0
0°-180°	64749.0	100.0

**Coefficient of Utilization**



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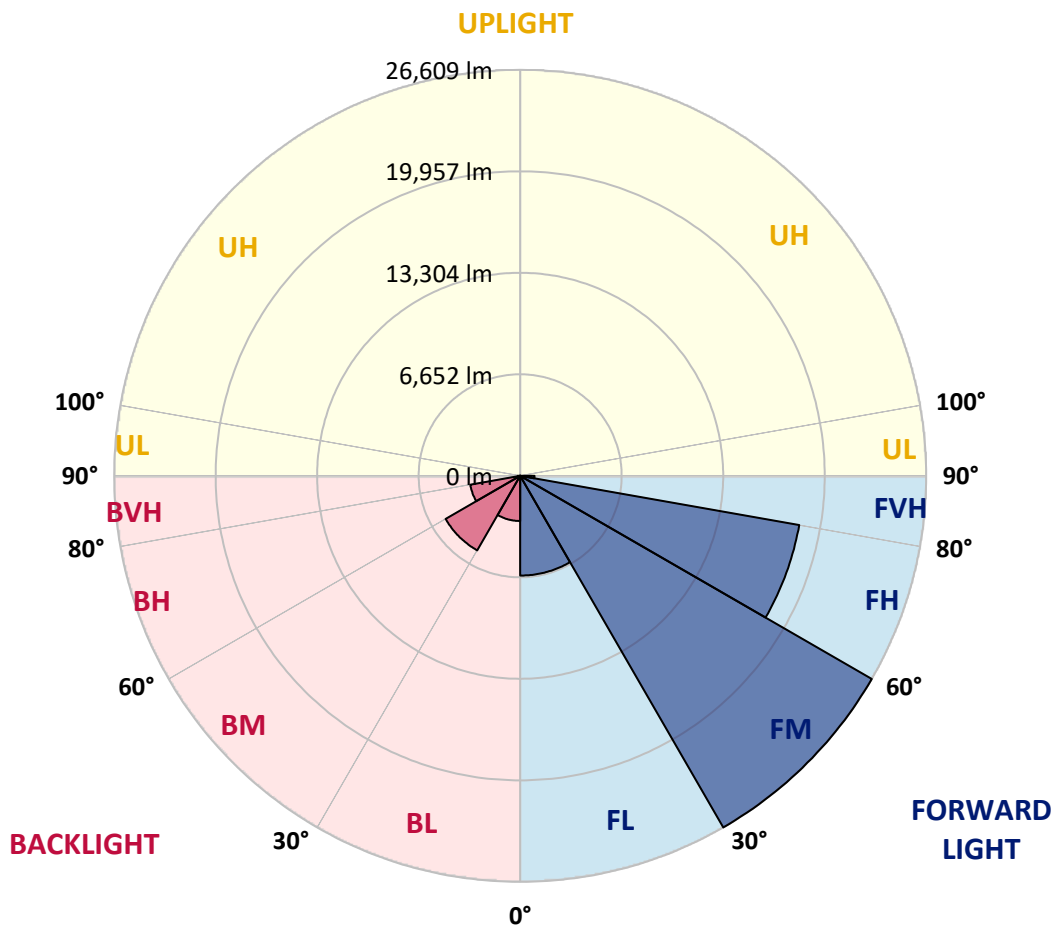
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6536.0	10.1			
FM (30°-60°)	26608.7	41.1			
FH (60°-80°)	18571.2	28.7			G5
FVH (80°-90°)	940.6	1.5			G5
BL (0°-30°)	2964.4	4.6	B4/5000		
BM (30°-60°)	5644.8	8.7	B4/8500		
BH (60°-80°)	3322.1	5.1	B4/5000		G4/5000
BVH (80°-90°)	161.2	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°	10674.9	10674.9	10674.9	10674.9	10674.9	10674.9	10674.9	10674.9	10674.9	10674.9	10674.9
2.5°	11455.7	11451.6	11480.7	11457.1	11365.8	11227.3	11177.5	11064.0	10976.7	10913.1	10800.9
5°	12296.1	12297.4	12303.0	12200.5	12056.6	11876.6	11699.4	11493.1	11347.8	11192.7	10928.3
7.5°	13042.2	13056.1	13063.0	12970.2	12772.3	12507.9	12229.6	11941.7	11721.5	11527.7	11098.6
10°	13676.3	13710.9	13697.0	13637.5	13414.6	13171.0	12812.4	12393.0	12102.2	11842.0	11263.3
12.5°	14320.0	14335.2	14299.3	14167.7	14015.5	13756.6	13385.6	12913.5	12549.4	12240.7	11483.4
15°	14974.8	14976.2	14916.7	14782.4	14565.1	14358.8	14037.6	13532.3	13130.8	12750.1	11806.0
17.5°	15505.0	15554.9	15471.8	15374.9	15215.7	14973.4	14761.6	14282.6	13864.6	13428.5	12272.5
20°	15988.2	16029.7	16035.3	15942.5	15883.0	15700.2	15534.1	15167.3	14731.2	14250.8	12895.5
22.5°	16380.0	16429.8	16492.1	16569.6	16662.4	16564.1	16533.6	16267.8	15892.7	15361.1	13774.6
25°	16654.1	16701.2	16947.6	17216.1	17416.9	17556.7	17706.2	17638.4	17306.1	16710.8	14926.4
27.5°	16773.1	16841.0	17192.6	17706.2	18233.7	18577.0	19021.4	19175.0	18870.5	18405.3	16320.4
30°	16811.9	16892.2	17315.8	18001.1	18941.1	19683.1	20321.3	20819.7	20674.3	20193.9	18001.1
32.5°	16661.0	16716.4	17194.0	18154.7	19482.4	20796.1	21640.6	22593.1	22577.8	22349.4	19929.5
35°	16152.9	16244.3	16852.0	18132.6	19943.4	21799.8	22950.2	24529.8	25037.9	24805.3	22287.1
37.5°	15492.6	15581.2	16317.7	17862.6	20218.9	22656.8	24406.6	26761.4	27424.6	27090.9	24366.5
40°	14714.6	14829.5	15647.6	17372.6	20293.6	23336.5	25710.7	28925.2	29627.1	29440.2	26461.0
42.5°	13781.5	13917.2	14844.7	16775.9	20146.9	23863.9	27056.3	31516.8	32388.9	32143.9	28526.5
45°	12873.3	12917.6	13780.1	15779.2	19759.2	24280.6	28216.4	33607.2	34779.8	34508.4	30706.9
47.5°	11938.9	12048.3	12869.2	14684.1	18866.3	24419.1	29311.5	36042.3	37333.9	37007.2	33064.5
50°	9887.2	10016.0	11757.5	13638.9	17673.0	24136.7	30449.4	38470.5	39785.7	39182.1	35118.9
52.5°	8029.4	8112.5	9308.6	12624.2	16223.5	23401.5	31460.0	40898.7	42074.1	41416.5	37032.1
55°	7377.4	7448.0	7956.0	10957.4	14891.8	22019.9	32013.8	43374.0	44039.9	43264.6	38878.9
57.5°	6964.8	7034.0	7330.3	8872.5	13499.1	19810.5	32142.5	45191.7	45841.0	44907.9	40455.7
60°	6416.6	6492.7	6933.0	7776.1	11998.4	17166.3	31324.3	46851.5	47293.2	46371.2	42002.1
62.5°	6038.7	6070.5	6372.3	7104.6	10471.4	14904.2	28808.9	47550.7	48220.7	47511.9	43329.7
65°	5586.0	5666.3	5919.6	6585.5	9303.0	13442.3	26138.5	46765.7	47985.4	47795.7	44056.5
67.5°	5091.7	5141.6	5397.7	5941.8	8088.9	12294.7	23423.7	45255.4	46801.7	46970.6	43592.7
70°	4551.8	4551.8	4778.9	5234.3	6674.1	10839.7	19276.1	42979.4	44539.6	44689.1	41250.3
72.5°	3852.7	3865.2	4122.7	4518.6	5537.5	9157.7	14997.0	39173.8	41316.8	41842.9	37414.2
75°	3035.9	3088.6	3380.7	3834.7	4517.2	7349.7	10845.2	31233.0	36969.8	38035.8	32574.4
77.5°	657.6	866.6	2046.1	2655.2	3498.3	5738.3	6682.4	18370.7	28480.8	30841.2	25691.3
80°	292.1	332.3	1016.1	1704.2	2032.3	3696.3	3592.5	8268.9	11379.6	17361.5	16792.5
82.5°	144.0	196.6	431.9	1070.1	1216.9	1301.3	1378.8	3928.9	5316.0	6423.5	7183.5
85°	40.1	66.5	222.9	427.8	509.5	315.6	512.2	1846.8	2700.9	3095.5	2983.3
87.5°	0.0	0.0	63.7	132.9	117.7	44.3	137.1	588.4	884.6	1053.5	909.5
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°	10674.9	10674.9	10674.9	10674.9	10674.9	10674.9	10674.9	10674.9	10674.9	10674.9	10674.9
2.5°	10738.6	10637.6	10513.0	10328.9	10187.6	10068.6	9995.2	9859.5	9824.9	9816.6	9779.3
5°	10781.5	10594.7	10290.1	9968.9	9708.7	9458.1	9296.1	9163.2	9053.8	9077.4	8980.5
7.5°	10877.1	10611.3	10140.6	9676.8	9249.0	8925.1	8667.6	8426.7	8320.1	8320.1	8253.7
10°	10958.7	10614.0	10009.1	9399.9	8839.3	8379.6	8048.8	7825.9	7652.8	7598.9	7576.7
12.5°	11073.6	10627.9	9845.7	9107.8	8462.7	7841.1	7454.9	7180.8	7041.0	6989.7	6863.8
15°	11279.9	10722.0	9697.6	8781.1	8012.8	7337.2	6851.3	6581.3	6420.8	6364.0	6340.5
17.5°	11616.3	10910.3	9595.1	8422.6	7569.8	6840.2	6315.5	5991.6	5825.5	5692.6	5677.3
20°	12067.6	11212.1	9563.3	8138.8	7097.7	6347.4	5721.6	5331.2	5018.4	4827.3	4830.1
22.5°	12743.2	11653.7	9621.4	7882.7	6690.7	5847.6	5122.2	4529.7	4005.0	3775.2	3724.0
25°	13692.9	12321.0	9775.1	7673.6	6282.3	5332.6	4304.0	3430.5	2925.2	2691.2	2640.0
27.5°	14909.8	13261.0	10060.3	7496.4	5896.1	4611.4	3310.1	2461.4	2003.2	1795.5	1709.7
30°	16224.9	14436.3	10513.0	7351.1	5406.0	3614.6	2356.2	1693.1	1269.5	1135.2	1135.2
32.5°	18117.4	15853.9	11091.6	7184.9	4763.6	2597.1	1569.9	1093.7	804.3	715.7	715.7
35°	20138.6	17513.8	11821.2	6993.9	3851.3	1776.2	977.4	645.1	531.6	533.0	531.6
37.5°	21889.8	18978.5	12524.5	6703.2	2808.9	1136.6	578.7	467.9	452.7	440.2	452.7
40°	23818.2	20512.3	13035.3	6228.3	1844.0	657.6	412.5	420.9	404.2	375.2	365.5
42.5°	25534.9	21899.5	13381.4	5472.5	1161.5	409.8	361.3	377.9	375.2	335.0	310.1
45°	27358.1	23387.7	13537.8	4331.7	638.2	371.0	318.4	353.0	351.6	305.9	281.0
47.5°	29150.9	24763.8	13471.4	2948.7	430.5	339.2	293.5	314.3	323.9	279.6	253.3
50°	31473.9	26008.3	13099.0	1695.9	393.2	317.0	272.7	265.8	286.6	240.9	225.7
52.5°	33286.0	27264.0	12343.1	909.5	372.4	301.8	252.0	222.9	240.9	198.0	209.0
55°	34916.8	28334.1	11021.0	627.1	368.2	286.6	242.3	196.6	200.7	171.7	168.9
57.5°	36539.3	29350.2	9344.6	552.4	373.8	288.0	220.1	171.7	156.4	139.8	116.3
60°	37842.0	30396.8	7471.5	506.7	376.6	285.2	192.4	149.5	113.5	95.5	91.4
62.5°	38841.5	30967.2	5606.7	472.1	366.9	261.6	174.4	124.6	91.4	69.2	66.5
65°	39315.0	30902.1	3778.0	436.1	362.7	250.6	160.6	105.2	72.0	54.0	51.2
67.5°	38550.8	29369.6	2399.1	400.1	355.8	239.5	150.9	91.4	62.3	44.3	41.5
70°	35986.9	26804.4	1425.9	358.6	337.8	220.1	145.4	81.7	54.0	34.6	29.1
72.5°	31875.3	23185.6	899.8	300.4	305.9	185.5	108.0	69.2	45.7	20.8	18.0
75°	26761.4	18622.7	650.7	222.9	249.2	146.7	85.8	59.5	37.4	12.5	11.1
77.5°	20782.3	12539.7	498.4	146.7	166.1	103.8	60.9	45.7	27.7	6.9	5.5
80°	12674.0	7233.4	391.8	83.1	102.4	60.9	27.7	29.1	12.5	1.4	0.0
82.5°	6114.8	3310.1	227.0	44.3	34.6	31.8	6.9	0.0	1.4	0.0	0.0
85°	2138.9	996.8	42.9	26.3	11.1	9.7	0.0	0.0	0.0	0.0	0.0
87.5°	573.1	177.2	12.5	11.1	1.4	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)