

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: P622429

Luminaire Tested: **PRV-M-C200-D-U-T4-BZ-7050-HSS**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622429  
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-C200-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: 47076 lumens  
Efficiency: N/A  
Efficacy: 136.1 lumens/watt  
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

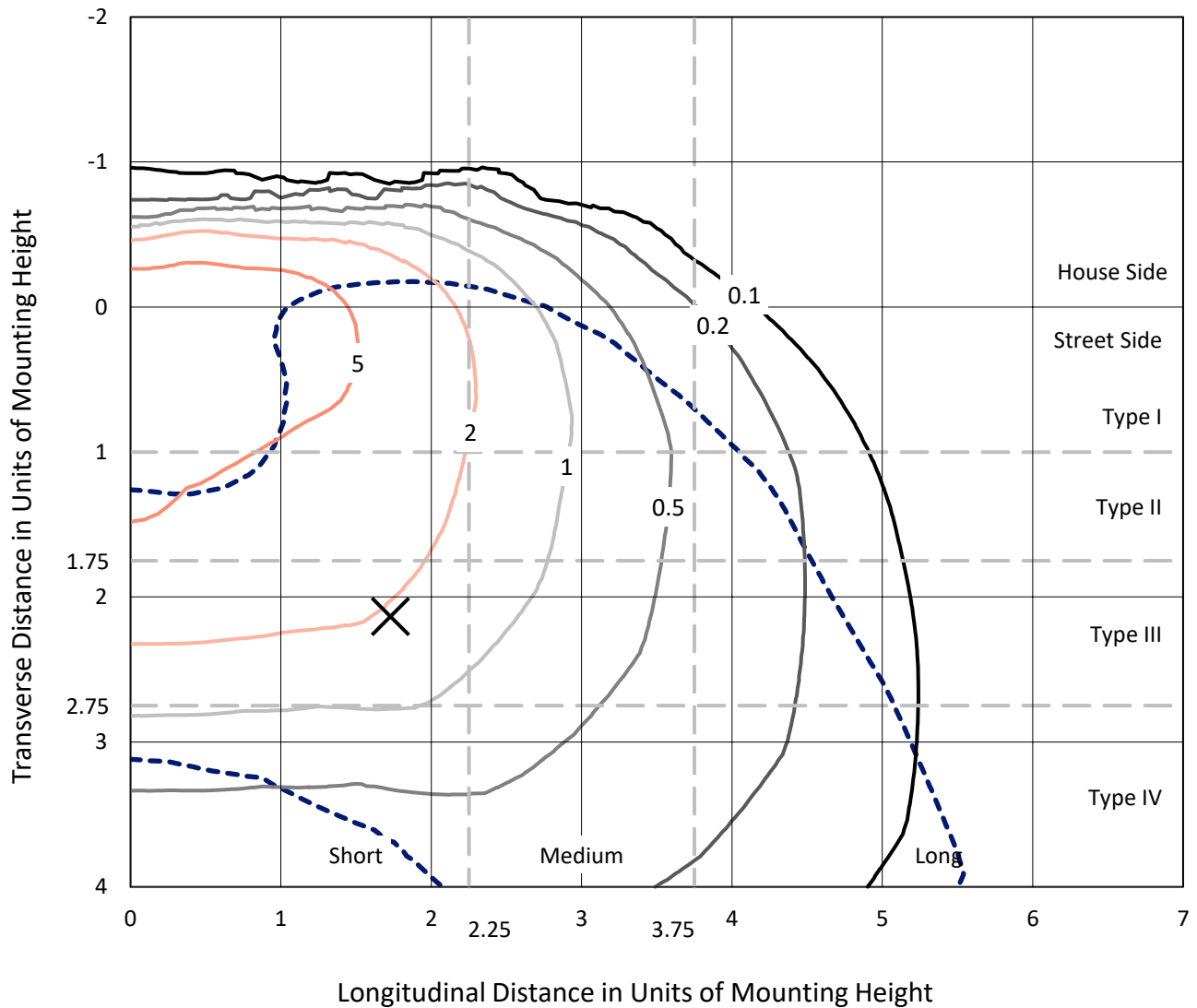
Input Watts (W): 346  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

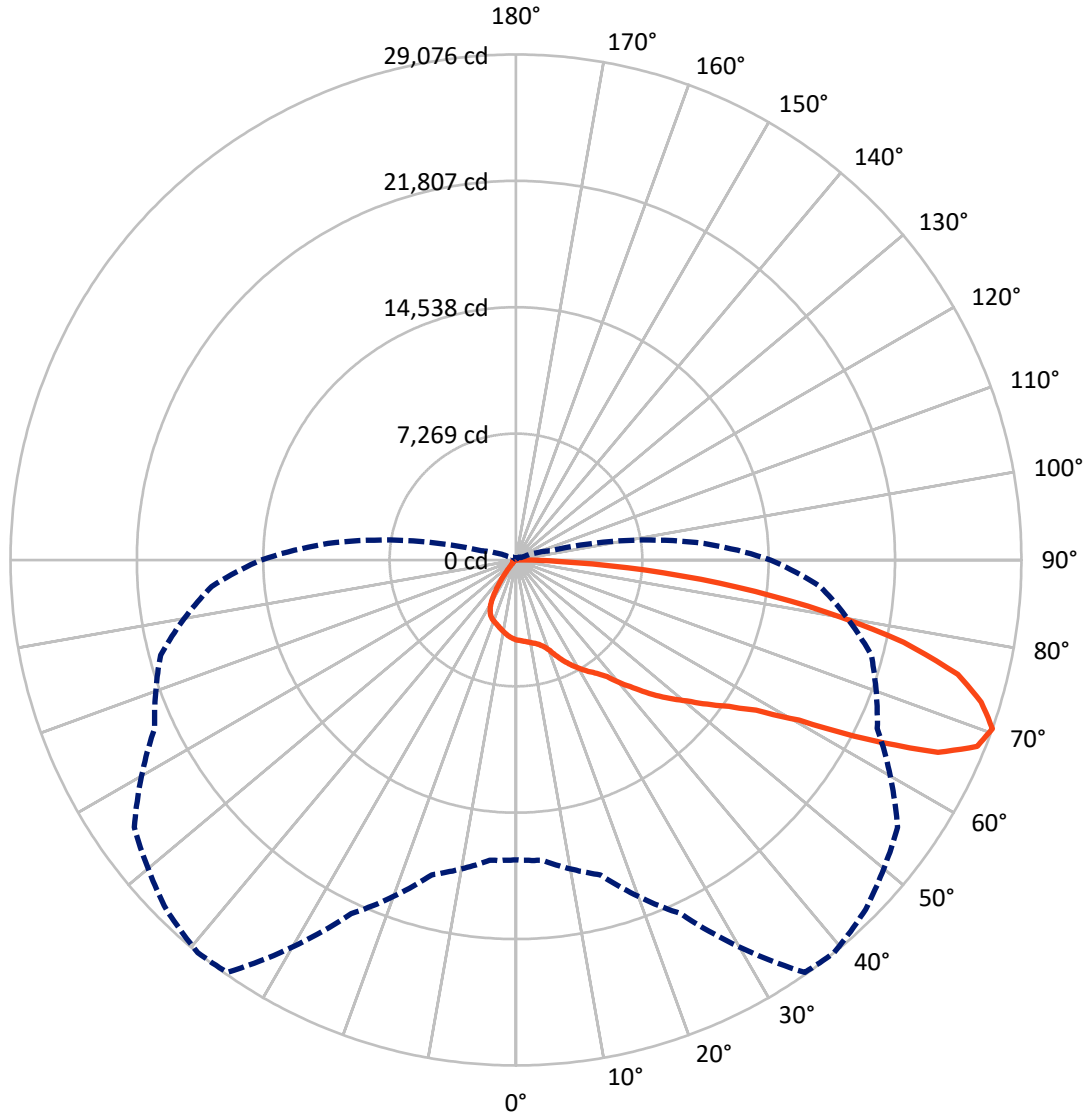
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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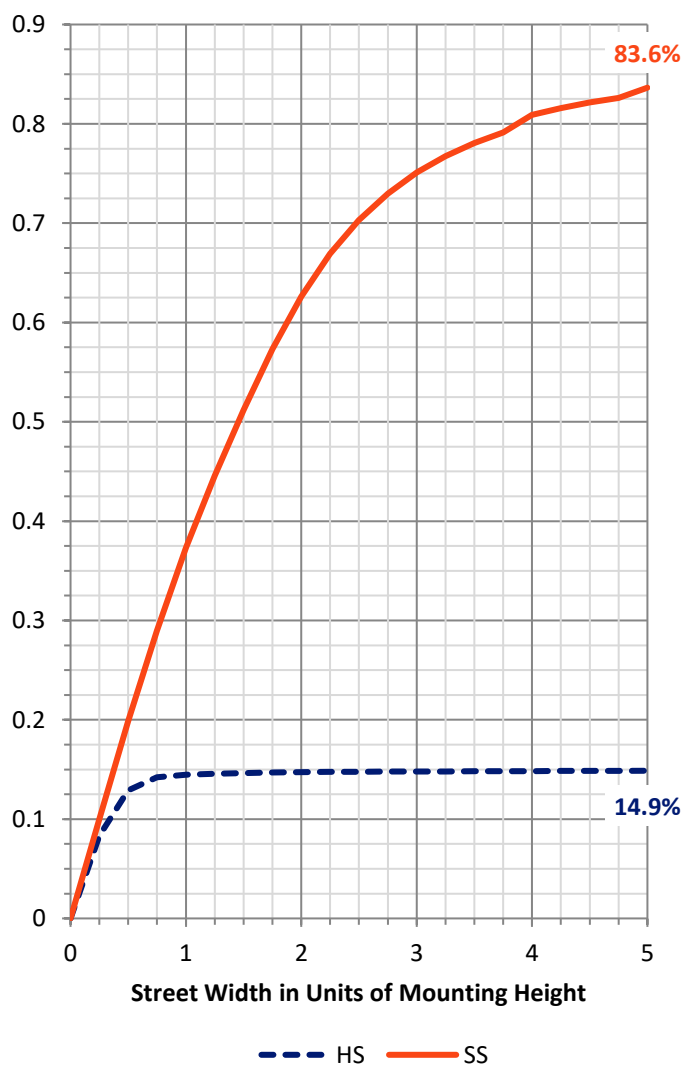
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7078.7	0.0	7078.7
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	39997.3	0.0	39997.3
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	47076.0	0.0	47076.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	437.1	0.9
10°-20°	1319.2	2.8
20°-30°	2433.0	5.2
30°-40°	3848.1	8.2
40°-50°	6032.4	12.8
50°-60°	8906.2	18.9
60°-70°	12212.4	25.9
70°-80°	9771.5	20.8
80°-90°	2116.1	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°	47076.0	100.0
0°-180°	47076.0	100.0

**Coefficient of Utilization**



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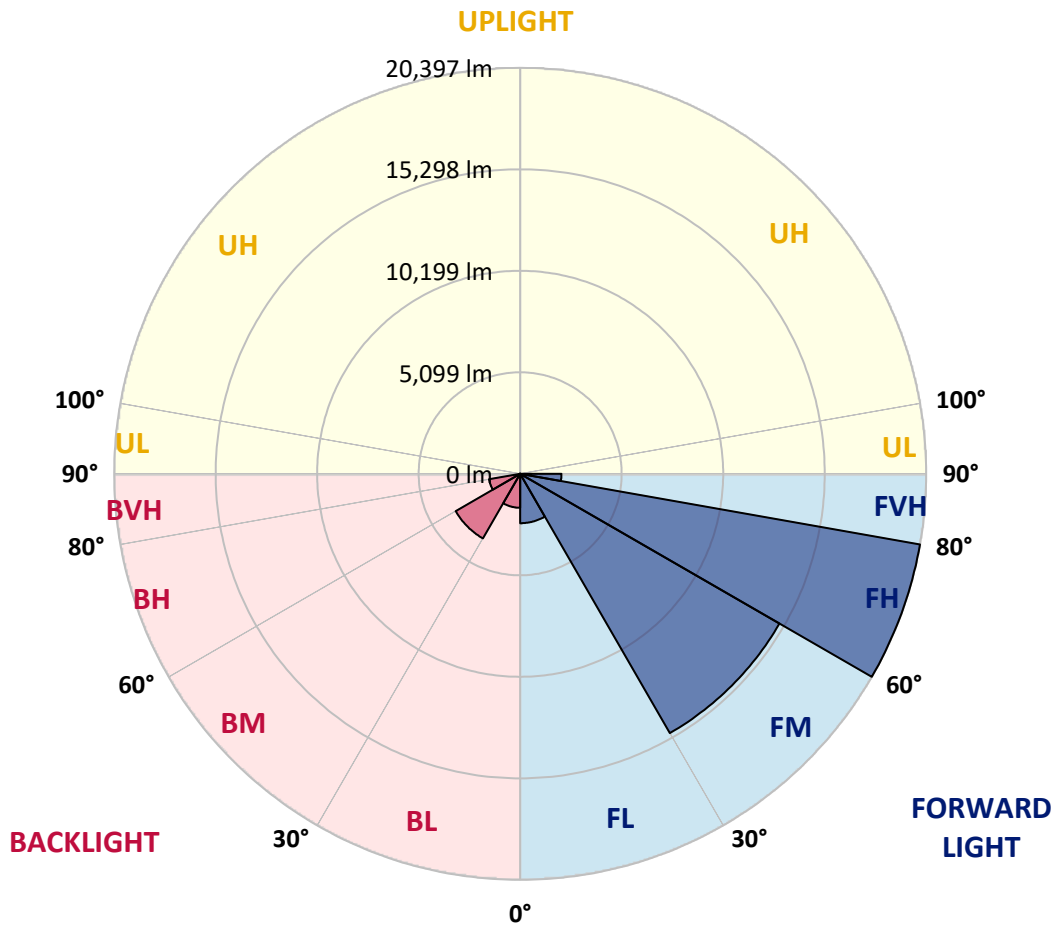
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2482.8	5.3			
FM (30°-60°)	15042.8	32.0			
FH (60°-80°)	20397.2	43.3			G5
FVH (80°-90°)	2074.5	4.4			G5
BL (0°-30°)	1706.5	3.6	B3/2500		
BM (30°-60°)	3743.9	8.0	B3/5000		
BH (60°-80°)	1586.7	3.4	B3/2500		G3/2500
BVH (80°-90°)	41.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4599.9	4599.9	4599.9	4599.9	4599.9	4599.9	4599.9	4599.9	4599.9	4599.9	4599.9
2.5°	4675.2	4668.1	4690.5	4664.0	4656.9	4633.5	4635.5	4646.7	4655.9	4636.5	4634.5
5°	4731.3	4729.2	4744.5	4719.0	4713.9	4694.6	4687.5	4698.7	4701.7	4672.2	4659.0
7.5°	4785.2	4783.2	4804.6	4775.0	4781.2	4757.7	4748.6	4757.7	4761.8	4726.2	4711.9
10°	4820.9	4818.8	4842.3	4828.0	4853.5	4839.2	4836.1	4851.4	4863.6	4811.7	4789.3
12.5°	4870.8	4869.8	4899.3	4893.2	4931.9	4923.7	4938.0	4968.5	4987.9	4940.0	4901.3
15°	4951.2	4960.4	4987.9	4993.0	5046.9	5052.0	5074.4	5124.3	5154.9	5106.0	5070.4
17.5°	5178.3	5162.0	5200.7	5203.8	5227.2	5242.5	5259.8	5339.2	5384.0	5355.5	5330.0
20°	5616.2	5613.1	5612.1	5589.7	5577.5	5555.1	5561.2	5604.0	5672.2	5676.3	5682.4
22.5°	6166.1	6189.5	6179.3	6111.1	6030.7	6008.3	5979.8	5973.6	6017.4	6042.9	6078.5
25°	6703.8	6687.5	6709.9	6568.4	6480.8	6450.2	6436.0	6454.3	6474.7	6504.2	6561.2
27.5°	7102.0	7082.6	7064.3	6968.6	6893.2	6860.6	6871.8	6940.1	7016.4	7032.7	7124.4
30°	7445.2	7409.5	7387.1	7338.2	7286.3	7247.6	7258.8	7417.7	7616.2	7686.5	7853.5
32.5°	8046.0	8025.6	7909.5	7660.0	7640.7	7634.6	7645.8	7906.5	8215.0	8415.6	8684.5
35°	8738.5	8717.1	8606.1	8357.6	8039.9	8004.2	8053.1	8347.4	8853.5	9368.8	9796.5
37.5°	9493.1	9503.2	9405.5	9092.8	8701.8	8517.5	8462.5	8852.5	9503.2	10582.7	11005.3
40°	10514.5	10461.5	10245.6	9814.9	9498.2	9326.0	9053.1	9373.9	10304.7	11881.1	12397.4
42.5°	11307.8	11309.8	11072.5	10645.8	10221.2	10122.4	9941.1	10060.3	11269.1	13363.8	13664.2
45°	11941.2	11997.2	11853.6	11449.3	11162.1	11034.8	10891.3	11145.8	12423.9	14822.1	14851.6
47.5°	12527.7	12566.4	12425.9	12164.2	11962.6	11889.2	11952.4	12451.4	13646.9	16115.4	15854.7
50°	13474.8	13423.9	12924.9	12737.5	12681.5	12741.6	12997.2	13718.2	15313.9	17249.8	16825.2
52.5°	15107.2	14792.6	13898.4	13592.9	13626.5	13784.4	14069.5	14894.4	16938.2	18308.9	17574.7
55°	17351.7	16901.6	15780.4	14874.0	14684.6	14862.8	15186.7	16026.8	18402.6	19211.2	18182.6
57.5°	18878.2	18789.6	18299.8	17212.2	16089.9	16299.7	16527.8	17268.2	19545.2	20082.9	18701.0
60°	20328.3	20394.5	20769.2	20206.1	19062.5	18716.3	18131.7	18558.4	20627.7	20809.0	19045.2
62.5°	21472.9	21581.9	22618.6	22660.3	23320.2	22722.4	21121.6	20014.7	21598.2	21287.6	19162.3
65°	21408.8	21462.7	22994.3	24070.7	26459.8	26678.7	25606.4	22018.8	22587.0	21526.9	19044.2
67.5°	19597.1	19789.6	21185.8	23914.9	28313.2	28618.7	28067.8	25350.8	23152.2	21495.3	18575.7
70°	17254.9	17339.4	18748.8	22453.6	28961.9	29075.9	28442.5	26800.9	22935.3	21162.3	17578.8
72.5°	14165.2	14358.7	15724.3	19530.9	28053.5	27984.3	27623.8	26493.4	22518.8	20247.9	15395.4
75°	11007.3	11136.7	12391.3	15955.5	25671.6	26249.0	25982.2	25457.7	21267.2	17903.6	11462.5
77.5°	7457.4	7807.7	9018.5	12321.0	21333.4	22808.0	23632.9	23213.3	18309.9	13562.4	6632.5
80°	4231.2	4124.3	5682.4	8596.9	16365.9	18053.3	19216.3	18629.7	13048.1	7256.8	1748.5
82.5°	1348.3	1499.0	2673.2	5215.0	11554.2	12852.6	13708.0	12187.6	6594.8	1891.1	359.5
85°	613.0	659.9	1104.9	2547.9	6766.9	7448.2	7502.2	5376.9	1061.1	375.8	224.0
87.5°	256.6	256.6	523.4	1142.6	2918.6	2368.7	1497.0	1535.7	214.9	170.1	117.1
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°	4599.9	4599.9	4599.9	4599.9	4599.9	4599.9	4599.9	4599.9	4599.9	4599.9	4599.9
2.5°	4614.1	4612.1	4600.9	4565.3	4535.7	4527.6	4527.6	4507.2	4511.3	4514.3	4495.0
5°	4634.5	4628.4	4592.8	4533.7	4475.6	4439.0	4425.7	4391.1	4380.9	4365.7	4352.4
7.5°	4673.2	4655.9	4595.8	4510.3	4420.7	4355.5	4306.6	4242.4	4208.8	4197.6	4169.1
10°	4751.6	4721.1	4634.5	4509.3	4374.8	4254.7	4158.9	4065.3	4008.2	3964.4	3945.1
12.5°	4859.6	4821.9	4711.9	4542.9	4345.3	4166.1	4010.3	3877.9	3790.3	3739.4	3726.1
15°	5022.5	4979.7	4837.2	4614.1	4340.2	4085.6	3863.6	3660.0	3535.7	3442.0	3423.7
17.5°	5281.2	5247.6	5054.1	4745.5	4391.1	4040.8	3710.9	3407.4	3186.4	3083.6	3041.8
20°	5637.6	5593.8	5366.7	4948.2	4497.0	4021.5	3563.2	3139.6	2816.8	2601.9	2546.9
22.5°	6059.2	5994.0	5697.7	5168.1	4594.8	3991.9	3422.7	2872.8	2414.5	2069.3	2030.6
25°	6552.1	6477.7	6000.1	5343.3	4634.5	3916.6	3235.3	2567.3	1919.6	1553.0	1532.6
27.5°	7098.9	6932.9	6300.5	5478.7	4604.0	3764.8	2960.3	2104.9	1385.0	1101.9	1054.0
30°	7740.5	7458.4	6584.7	5561.2	4513.3	3526.5	2567.3	1490.9	918.6	710.8	704.7
32.5°	8430.9	8039.9	6868.8	5577.5	4343.3	3197.6	1936.9	943.0	523.4	409.4	414.5
35°	9413.6	8811.8	7178.3	5536.8	4070.3	2712.9	1277.0	537.7	290.2	257.6	244.4
37.5°	10508.4	9762.9	7516.4	5386.1	3664.0	2043.8	762.7	261.7	213.9	204.7	201.6
40°	11791.5	10813.9	7909.5	5160.0	3140.6	1403.3	358.5	205.7	195.5	190.4	190.4
42.5°	12981.9	11892.3	8413.6	4858.5	2533.7	817.7	238.3	197.6	176.2	174.1	175.2
45°	14058.3	12829.2	8871.9	4506.2	1905.3	412.4	230.1	176.2	156.8	156.8	156.8
47.5°	15014.6	13605.2	9202.8	4062.2	1305.5	272.9	230.1	160.9	142.6	141.6	142.6
50°	15815.0	14257.9	9415.7	3576.4	768.9	255.6	210.8	152.8	129.3	132.4	132.4
52.5°	16433.1	14725.3	9443.2	2975.6	421.6	249.5	200.6	141.6	118.1	135.4	139.5
55°	16929.1	15031.9	9284.3	2285.2	308.6	234.2	196.5	131.4	117.1	153.8	160.9
57.5°	17241.7	15169.3	8903.4	1550.9	286.2	214.9	183.3	120.2	111.0	136.5	141.6
60°	17400.5	15121.5	8330.1	971.5	280.0	209.8	169.0	115.1	98.8	98.8	99.8
62.5°	17365.9	14856.7	7543.9	582.5	261.7	201.6	158.9	111.0	82.5	67.2	67.2
65°	16972.8	14267.1	6274.1	417.5	248.5	200.6	151.7	104.9	70.3	51.9	48.9
67.5°	16171.4	13122.5	4383.0	364.6	254.6	200.6	151.7	100.8	66.2	41.8	37.7
70°	14655.1	10861.7	2047.9	334.0	263.8	208.8	154.8	99.8	59.1	32.6	29.5
72.5°	11841.4	7522.6	499.0	270.9	265.8	208.8	167.0	98.8	53.0	25.5	22.4
75°	7614.2	3548.9	355.4	207.7	234.2	200.6	169.0	118.1	56.0	16.3	14.3
77.5°	3043.8	682.3	314.7	145.6	220.0	223.0	183.3	125.3	69.2	8.1	4.1
80°	524.5	317.7	294.3	97.8	181.3	228.1	144.6	103.9	66.2	3.1	0.0
82.5°	296.3	269.9	249.5	60.1	138.5	153.8	88.6	74.3	65.2	3.1	0.0
85°	223.0	224.0	109.0	45.8	66.2	95.7	34.6	21.4	59.1	2.0	0.0
87.5°	129.3	70.3	35.6	27.5	27.5	37.7	13.2	9.2	8.1	2.0	1.0
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)