

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: P231787

Luminaire Tested: **AXCL10A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P231787  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29584)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: AXCL10A  
Description: AXCENT CUTOFF WALLPACK  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13238 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Luminous Opening: Rectangular (W 0.29' x L: 0.75' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

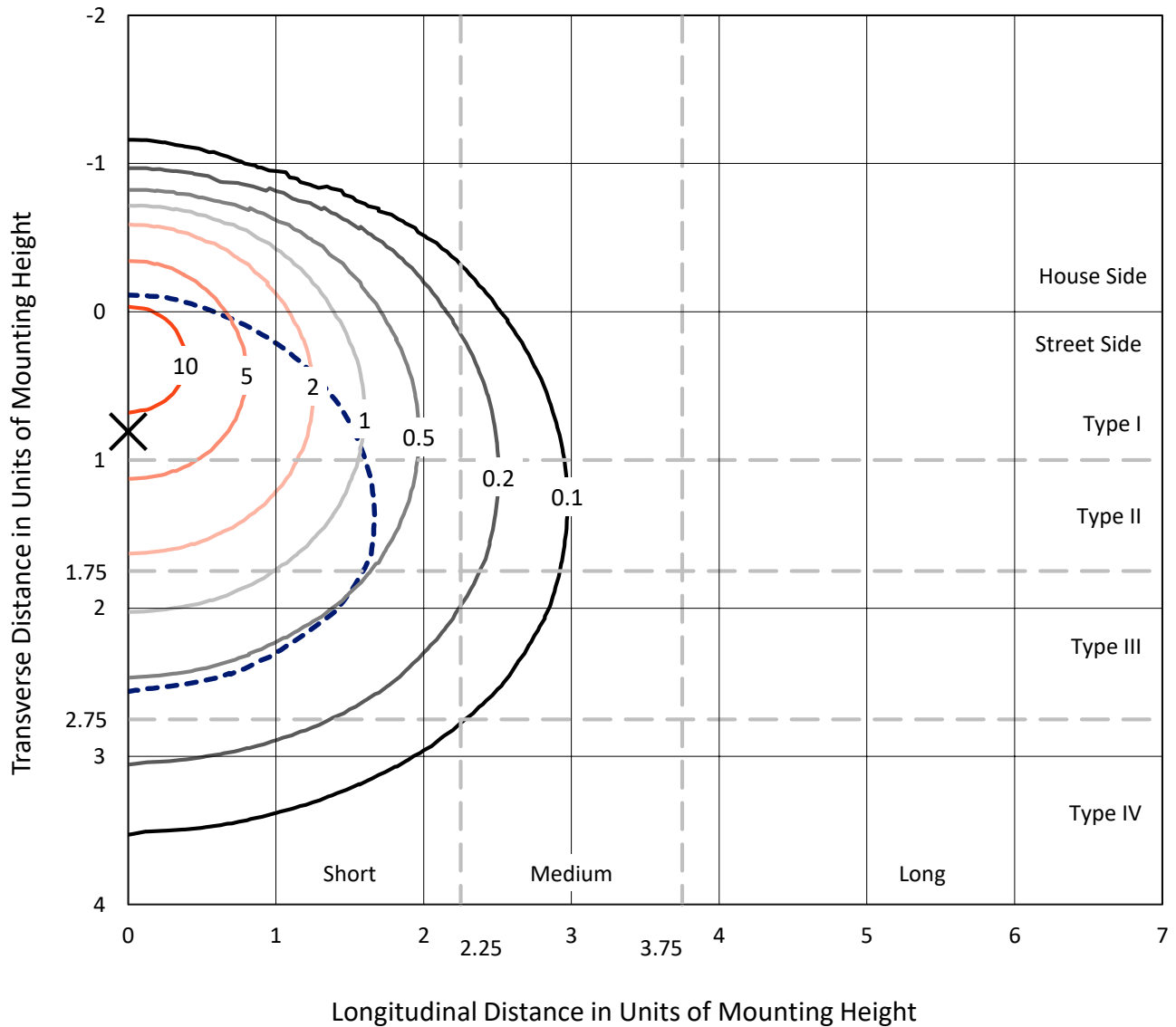
Input Watts (W): 102  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

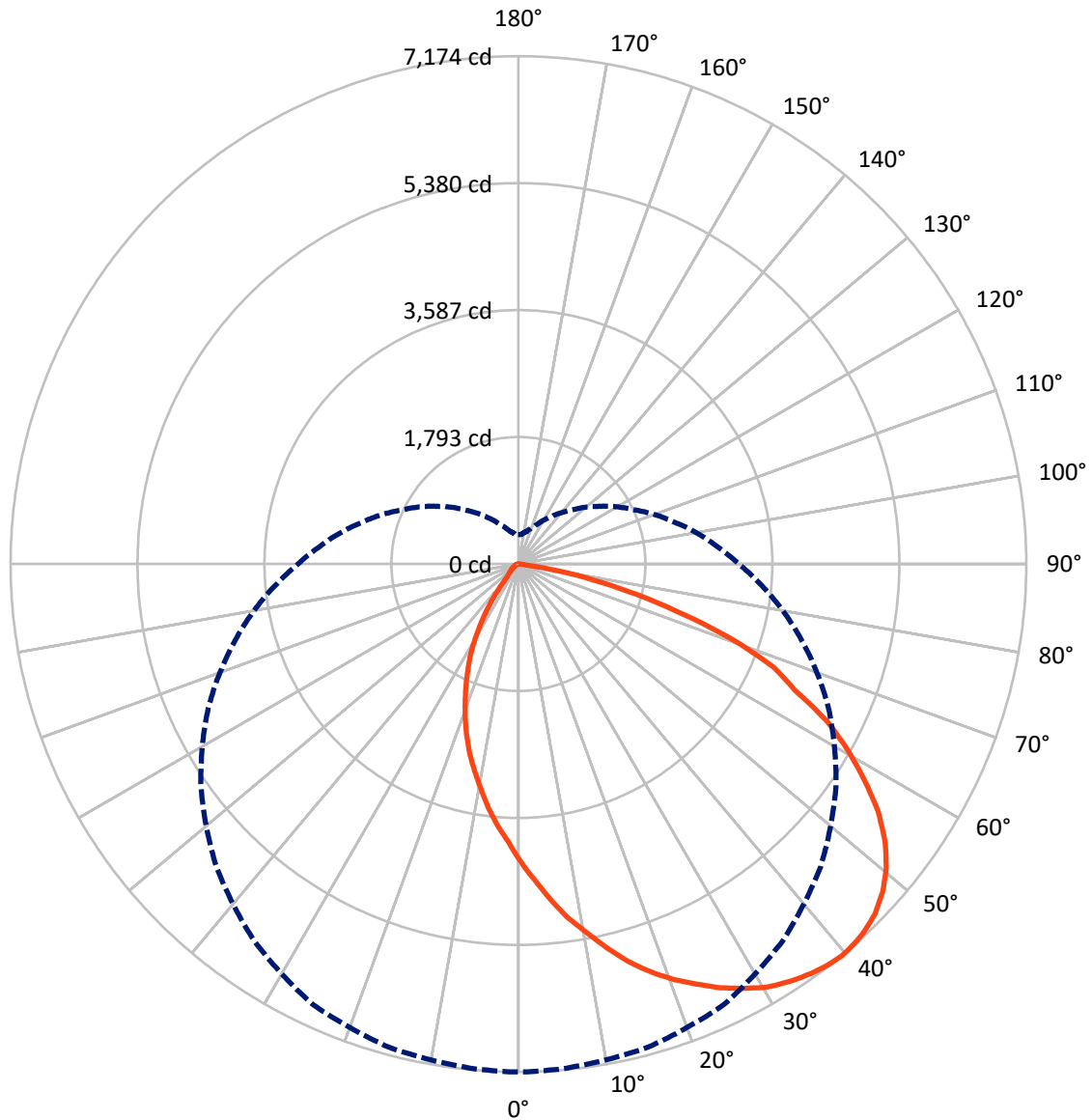
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.1 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 39-Deg Vertical

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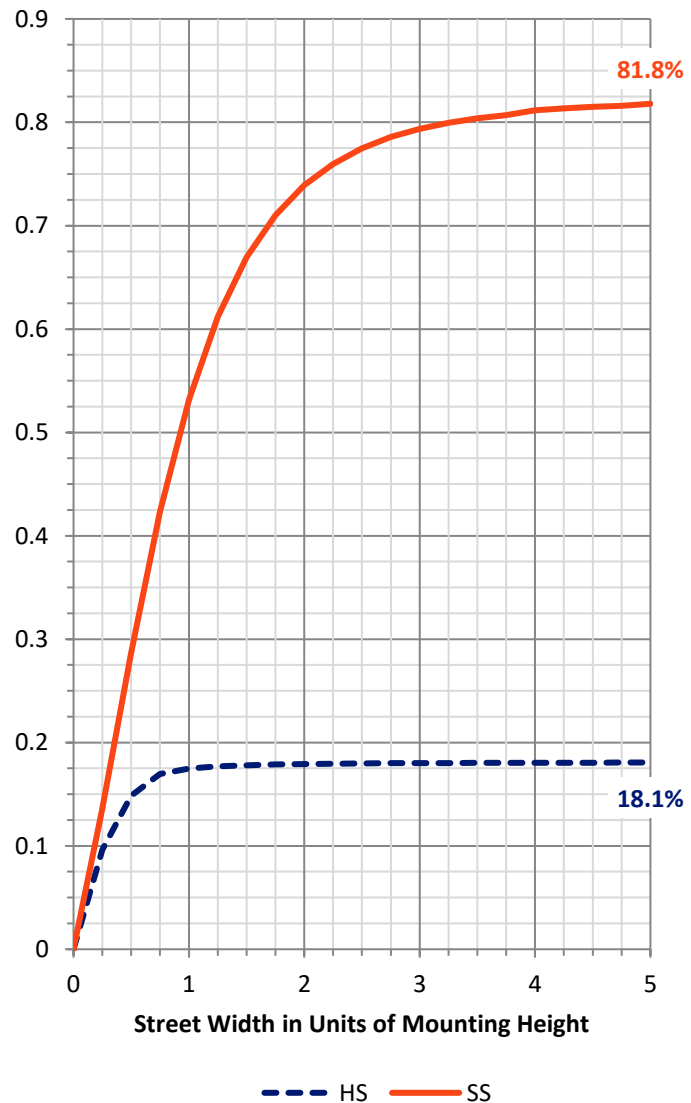
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2414.6	0.0	2414.6
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	10823.4	0.0	10823.4
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	13238.0	0.0	13238.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.4	3.0
10°-20°	1189.8	9.0
20°-30°	1856.6	14.0
30°-40°	2308.9	17.4
40°-50°	2485.0	18.8
50°-60°	2334.9	17.6
60°-70°	1768.7	13.4
70°-80°	818.8	6.2
80°-90°	71.8	0.5
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°	13238.0	100.0
0°-180°	13238.0	100.0



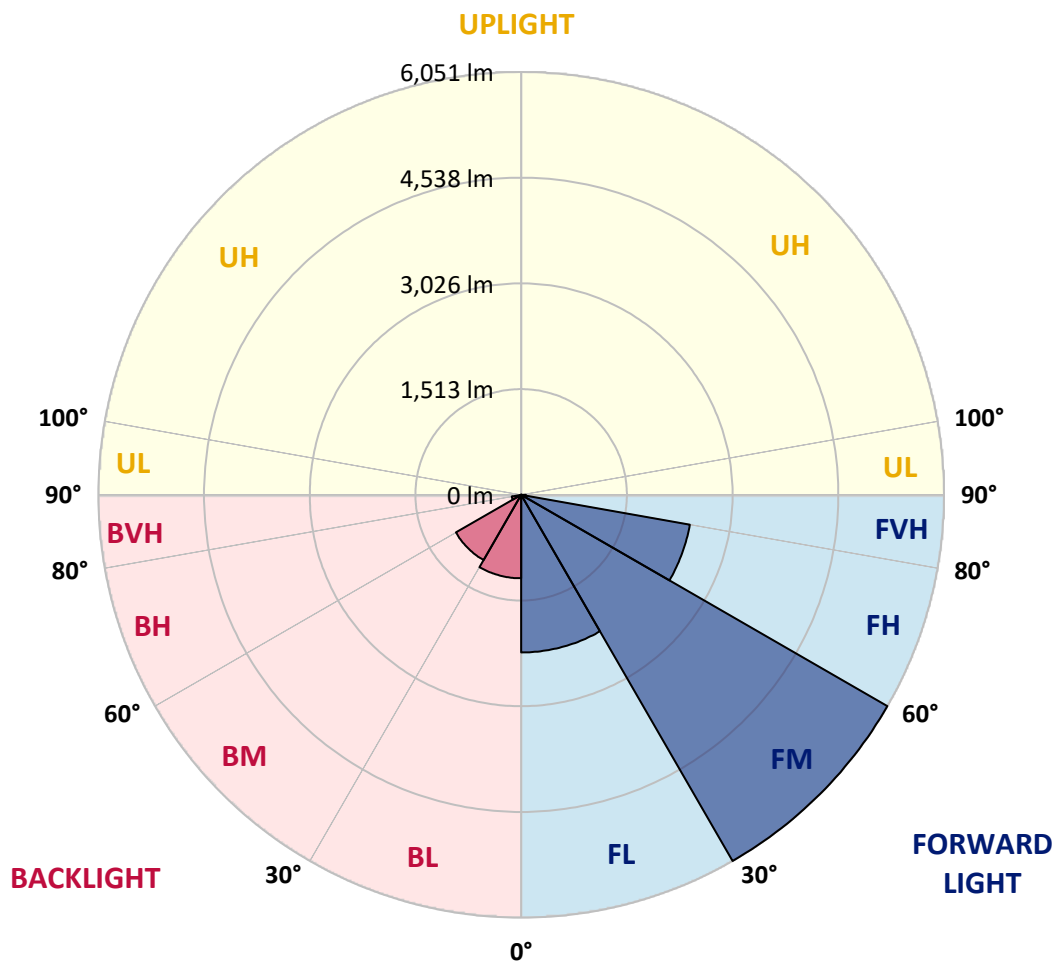
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2255.5	17.0			
FM	(30°-60°)	6051.0	45.7			
FH	(60°-80°)	2450.7	18.5			G2/5000
FVH	(80°-90°)	66.1	0.5			G1/100
BL	(0°-30°)	1194.4	9.0	B3/2500		
BM	(30°-60°)	1077.8	8.1	B2/2500		
BH	(60°-80°)	136.7	1.0	B1/500		G1/500
BVH	(80°-90°)	5.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4212.1	4212.1	4212.1	4212.1	4212.1	4212.1	4212.1	4212.1	4212.1	4212.1	4212.1
2.5°	4474.1	4456.4	4465.7	4449.7	4448.0	4429.5	4395.8	4370.5	4338.5	4287.9	4234.8
5°	4764.0	4744.6	4753.0	4725.2	4708.4	4666.3	4598.0	4535.7	4463.2	4365.4	4268.6
7.5°	5047.9	5033.6	5036.1	5001.6	4966.2	4895.4	4795.2	4691.5	4573.6	4432.9	4286.2
10°	5294.0	5287.2	5297.4	5240.9	5191.2	5096.0	4967.1	4820.4	4657.0	4467.4	4278.7
12.5°	5567.0	5547.6	5556.9	5494.5	5428.8	5304.1	5140.6	4953.6	4742.9	4505.3	4266.9
15°	5829.0	5832.4	5827.3	5761.6	5678.2	5524.0	5325.2	5091.8	4832.2	4540.7	4252.5
17.5°	6058.2	6070.8	6067.5	5999.2	5885.5	5715.3	5486.1	5206.4	4895.4	4552.5	4210.4
20°	6263.8	6273.1	6267.2	6193.9	6064.1	5870.3	5610.8	5289.8	4927.5	4531.4	4143.8
22.5°	6445.0	6450.9	6445.8	6364.9	6220.0	6004.3	5716.1	5352.1	4942.6	4503.6	4076.4
25°	6632.0	6630.3	6626.1	6538.5	6380.1	6139.1	5817.2	5411.1	4963.7	4482.6	4013.2
27.5°	6788.7	6802.2	6791.3	6708.7	6536.0	6266.3	5906.5	5463.3	4980.5	4456.4	3942.5
30°	6935.3	6930.3	6921.9	6834.2	6652.2	6359.9	5964.7	5489.5	4973.8	4410.9	3858.2
32.5°	7030.6	7030.6	7011.2	6926.9	6739.0	6423.9	5998.4	5500.4	4950.2	4347.8	3753.7
35°	7108.1	7105.5	7087.0	7002.7	6809.8	6477.8	6026.2	5502.1	4919.0	4277.8	3642.5
37.5°	7161.2	7159.5	7141.8	7054.1	6853.6	6501.4	6038.8	5489.5	4872.7	4193.6	3522.0
39°	7173.8	7173.8	7156.9	7067.6	6867.9	6503.1	6038.8	5475.1	4835.6	4138.8	3445.3
40°	7172.1	7172.1	7155.3	7068.5	6867.1	6495.5	6030.4	5457.4	4807.0	4097.5	3392.3
42.5°	7136.7	7138.4	7121.6	7039.0	6839.3	6459.3	5983.2	5396.8	4719.3	3982.9	3249.9
45°	7057.5	7057.5	7042.3	6964.8	6760.1	6380.1	5901.5	5297.4	4607.3	3845.6	3095.7
47.5°	6922.7	6926.1	6909.2	6837.6	6630.3	6269.7	5792.8	5175.2	4469.9	3693.9	2920.4
50°	6734.8	6739.9	6723.0	6653.1	6464.3	6116.3	5643.7	5021.8	4298.9	3525.4	2731.7
52.5°	6481.2	6482.9	6475.3	6415.5	6245.3	5913.3	5452.4	4833.9	4110.1	3324.9	2530.3
55°	6161.8	6168.6	6158.5	6102.0	5960.5	5660.5	5219.8	4609.0	3887.7	3114.2	2310.4
57.5°	5765.0	5772.6	5765.8	5721.2	5610.8	5353.8	4940.9	4347.8	3664.4	2872.4	2079.5
60°	5348.7	5358.9	5351.3	5310.0	5203.8	4999.1	4622.4	4052.0	3378.8	2613.7	1841.9
62.5°	4890.4	4898.8	4892.1	4882.0	4781.7	4603.9	4279.5	3728.5	3086.4	2346.6	1600.1
65°	4286.2	4298.0	4274.4	4318.3	4300.6	4124.5	3872.5	3381.3	2754.4	2040.7	1363.3
67.5°	3886.9	3890.2	3854.8	3815.2	3691.4	3659.4	3442.0	3007.2	2413.2	1751.7	1125.7
70°	3233.9	3170.7	3179.1	3232.2	3278.5	3099.9	2978.5	2599.4	2055.1	1449.3	898.2
72.5°	2454.5	2401.4	2414.9	2446.0	2526.1	2607.8	2423.3	2188.2	1691.1	1169.5	672.4
75°	1728.1	1674.2	1690.2	1716.4	1777.9	1852.9	1900.0	1698.7	1305.2	883.0	489.5
77.5°	1077.7	1061.7	1043.1	1060.0	1107.2	1173.7	1231.0	1220.9	934.4	616.8	320.2
80°	512.3	498.0	488.7	502.2	532.5	611.7	661.4	661.4	574.6	377.5	182.0
82.5°	94.4	91.8	91.0	102.8	116.3	182.8	241.0	268.8	260.4	174.4	75.0
85°	43.8	41.3	42.1	43.0	43.8	48.9	51.4	61.5	72.5	48.0	24.4
87.5°	15.2	16.0	16.0	17.7	16.9	18.5	19.4	21.1	19.4	15.2	12.6
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°	4212.1	4212.1	4212.1	4212.1	4212.1	4212.1	4212.1	4212.1	4212.1	4212.1	4212.1
2.5°	4207.9	4184.3	4139.6	4092.4	4050.3	4004.0	3974.5	3958.5	3939.1	3942.5	3931.5
5°	4220.5	4171.7	4084.9	3998.1	3921.4	3843.9	3790.0	3752.9	3721.7	3719.2	3709.1
7.5°	4214.6	4141.3	4012.4	3887.7	3776.5	3666.1	3587.7	3534.7	3488.3	3479.9	3470.6
10°	4185.1	4092.4	3923.1	3756.3	3615.5	3475.7	3375.4	3303.8	3244.8	3230.5	3217.0
12.5°	4150.6	4039.4	3828.7	3628.2	3460.5	3305.5	3177.4	3086.4	3019.0	2986.1	2982.8
15°	4113.5	3979.5	3727.6	3500.1	3297.9	3128.5	2983.6	2877.4	2797.4	2759.5	2753.6
17.5°	4050.3	3893.6	3607.1	3346.8	3119.3	2932.2	2770.4	2651.6	2560.6	2518.5	2509.2
20°	3960.2	3786.6	3465.6	3174.0	2922.9	2714.8	2542.1	2414.0	2314.6	2263.2	2251.4
22.5°	3870.0	3677.9	3324.9	3004.7	2729.1	2500.8	2311.2	2173.9	2066.9	2010.4	1999.5
25°	3787.4	3581.0	3189.2	2842.9	2542.1	2291.8	2084.6	1925.3	1824.2	1762.7	1750.1
27.5°	3696.4	3471.5	3047.6	2675.2	2352.5	2081.2	1857.1	1686.9	1578.2	1511.6	1522.6
30°	3587.7	3344.2	2891.8	2484.8	2148.6	1862.1	1623.7	1445.9	1333.0	1260.5	1271.5
32.5°	3463.9	3205.2	2724.9	2297.7	1948.9	1638.8	1398.7	1209.1	1092.8	1026.3	1024.6
35°	3335.0	3060.3	2548.8	2111.5	1744.2	1418.1	1167.0	979.9	841.7	783.6	779.4
37.5°	3197.6	2908.6	2387.9	1922.8	1542.8	1205.7	950.4	745.7	617.6	546.8	541.8
39°	3113.4	2818.5	2282.6	1806.5	1420.6	1079.4	819.8	612.6	482.0	417.1	413.7
40°	3053.5	2756.1	2210.1	1729.8	1339.7	997.6	732.2	524.1	401.1	340.4	336.2
42.5°	2905.2	2591.0	2029.0	1536.0	1138.3	797.1	523.2	333.7	256.1	234.2	232.6
45°	2730.0	2409.8	1831.8	1348.1	942.0	597.4	338.7	229.2	198.9	187.9	186.2
47.5°	2548.8	2221.9	1635.5	1159.4	756.6	413.7	225.0	182.8	164.3	157.6	156.7
50°	2355.0	2025.6	1457.7	974.9	575.5	262.0	176.9	150.8	139.9	135.7	134.8
52.5°	2161.2	1824.2	1261.4	787.8	403.6	186.2	146.6	128.9	122.2	119.6	118.8
55°	1936.3	1621.1	1070.1	622.7	258.7	150.0	123.0	112.1	107.9	103.6	103.6
57.5°	1729.8	1415.5	892.3	460.1	171.9	123.0	105.3	97.7	92.7	89.3	88.5
60°	1509.1	1210.8	717.9	312.6	134.0	102.8	91.8	85.9	80.9	77.5	76.7
62.5°	1287.5	1007.7	555.3	187.9	107.0	86.8	80.9	75.0	70.8	67.4	67.4
65°	1071.8	816.5	405.3	123.9	86.8	74.1	69.1	64.9	61.5	59.0	59.0
67.5°	862.0	629.4	274.7	94.4	69.9	63.2	59.8	56.5	53.1	51.4	51.4
70°	664.8	468.5	165.1	70.8	57.3	53.1	51.4	48.0	46.3	43.8	43.8
72.5°	486.2	325.2	90.2	54.8	46.3	43.8	43.0	40.4	38.8	37.1	37.1
75°	341.2	206.4	56.5	42.1	36.2	35.4	35.4	33.7	32.0	30.3	30.3
77.5°	211.5	114.6	38.8	30.3	27.8	27.8	27.8	26.1	24.4	23.6	22.7
80°	112.9	54.8	26.1	21.9	20.2	20.2	20.2	19.4	17.7	16.9	16.0
82.5°	47.2	25.3	16.9	14.3	12.6	13.5	13.5	11.8	10.1	8.4	8.4
85°	17.7	14.3	11.8	10.1	9.3	8.4	7.6	5.9	4.2	3.4	3.4
87.5°	11.0	10.1	9.3	8.4	7.6	5.9	5.1	3.4	1.7	0.8	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)