

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: P231789

Luminaire Tested: **AXCL10A-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231789
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-W
Description: AXCENT CUTOFF WALLPACK
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11538 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.29' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

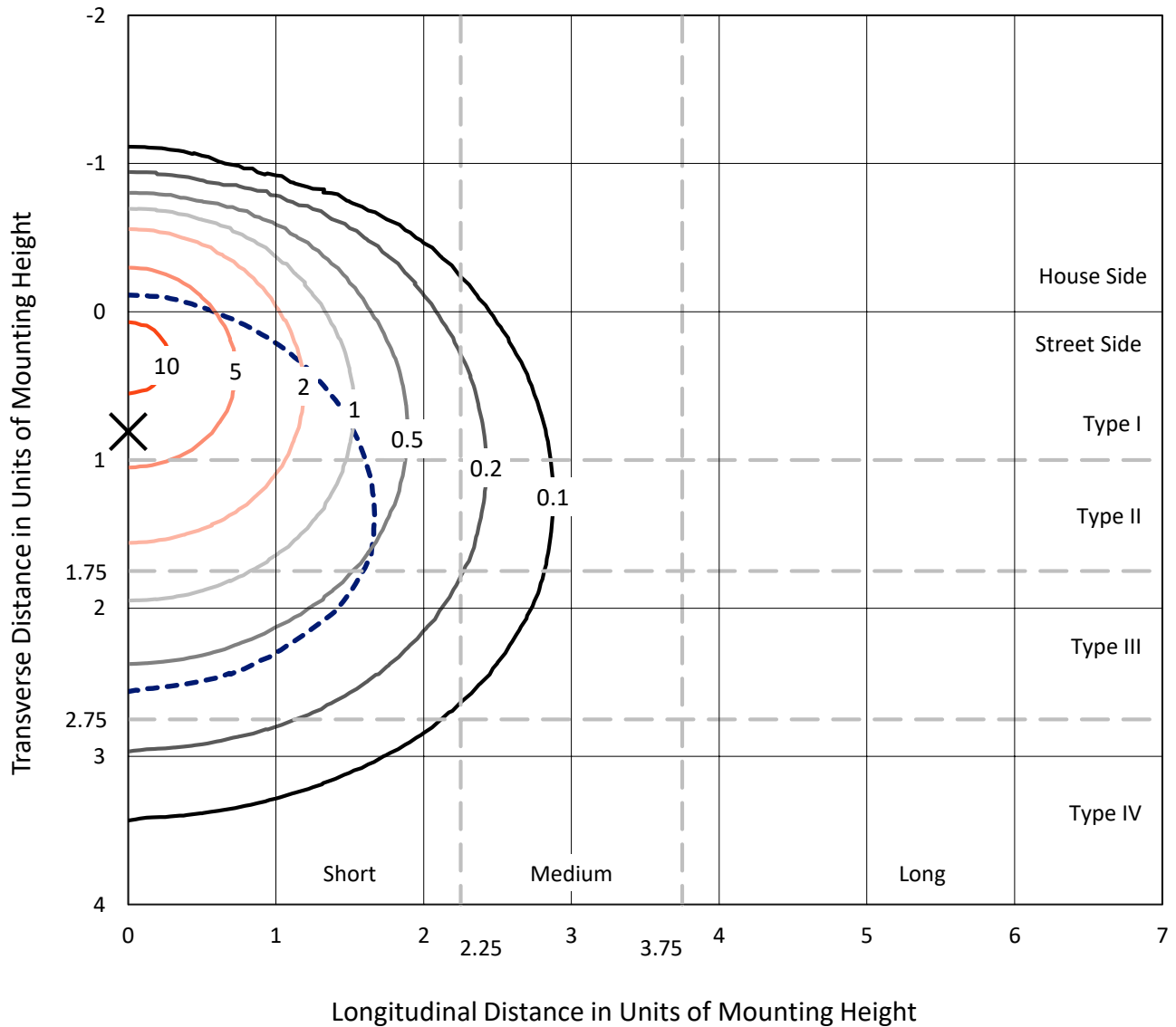
Input Watts (W): 102
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

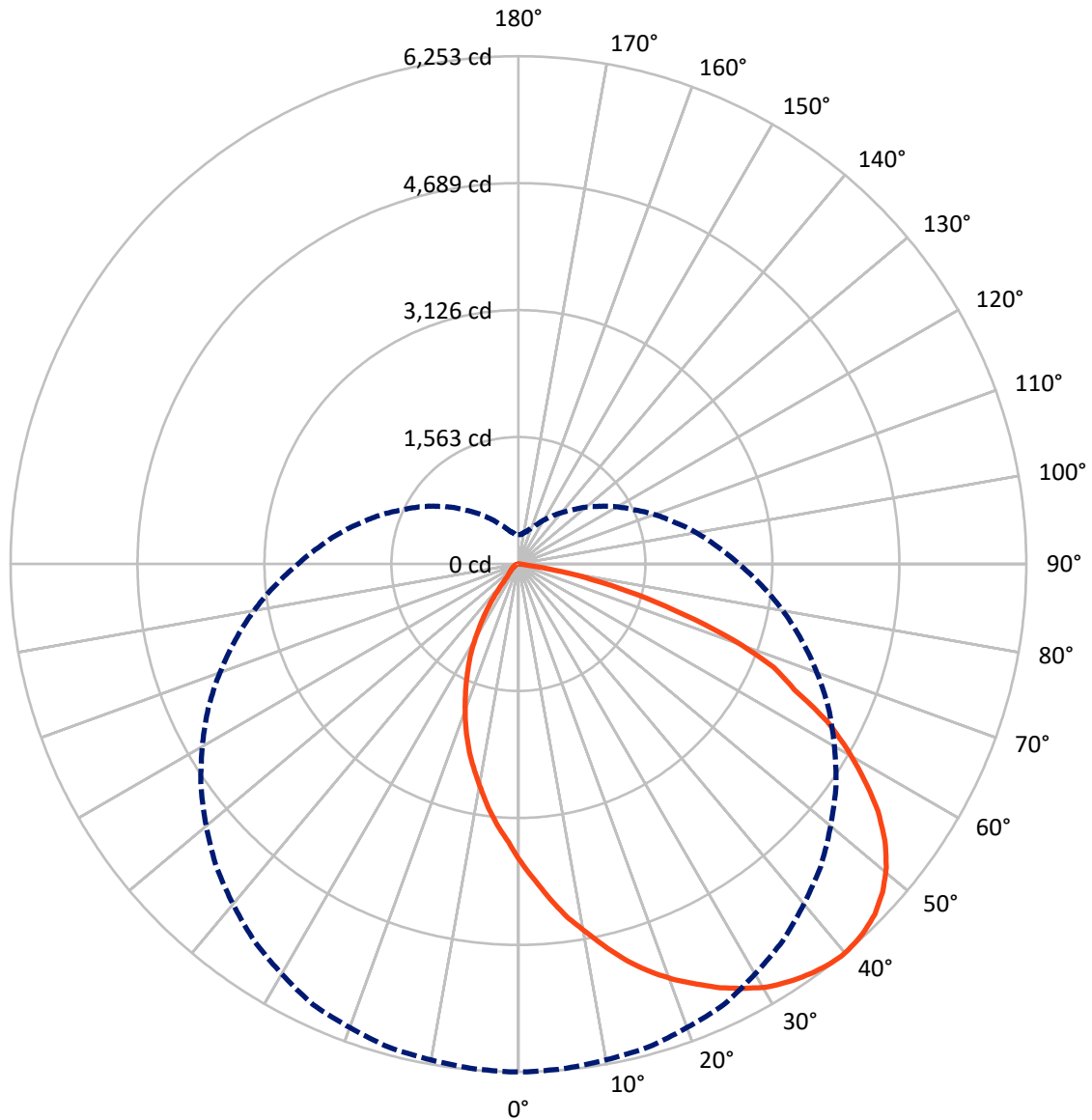
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.4 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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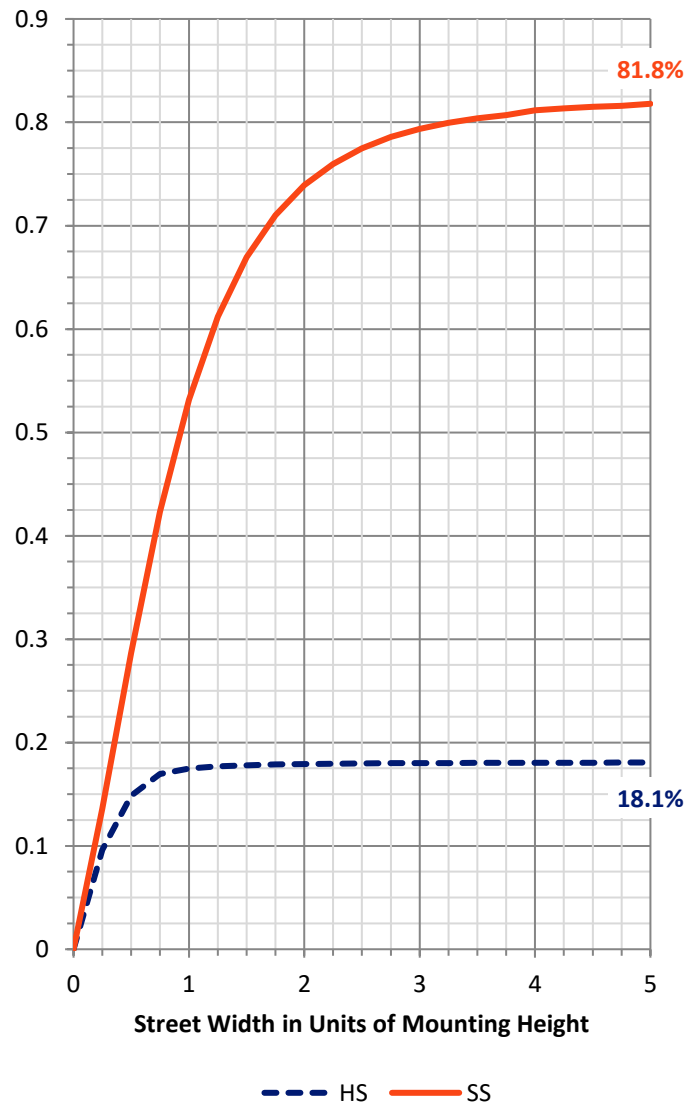
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2104.5	0.0	2104.5
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	9433.5	0.0	9433.5
	% Fixture	81.8	0.0	81.8
Total	Lumens	11538.0	0.0	11538.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.6	3.0
10°-20°	1037.0	9.0
20°-30°	1618.2	14.0
30°-40°	2012.4	17.4
40°-50°	2165.9	18.8
50°-60°	2035.1	17.6
60°-70°	1541.5	13.4
70°-80°	713.6	6.2
80°-90°	62.6	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°	11538.0	100.0
0°-180°	11538.0	100.0

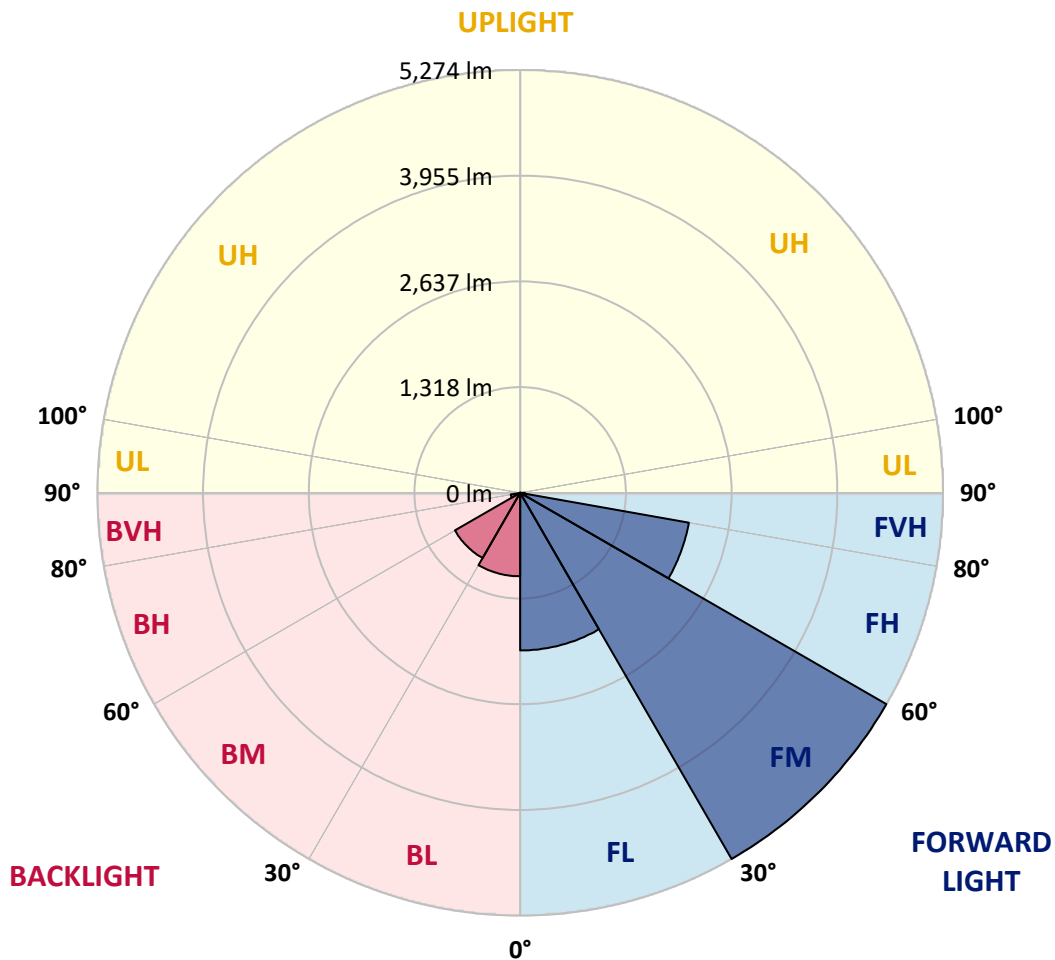


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1965.8	17.0			
FM (30°-60°)	5274.0	45.7			
FH (60°-80°)	2136.0	18.5			G2/5000
FVH (80°-90°)	57.7	0.5			G1/100
BL (0°-30°)	1041.0	9.0	B3/2500		
BM (30°-60°)	939.4	8.1	B1/1000		
BH (60°-80°)	119.2	1.0	B1/500		G1/500
BVH (80°-90°)	4.9	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°	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2
2.5°	3899.6	3884.2	3892.2	3878.3	3876.8	3860.7	3831.3	3809.3	3781.3	3737.3	3691.0
5°	4152.2	4135.3	4142.7	4118.4	4103.7	4067.0	4007.5	3953.2	3890.0	3804.8	3720.4
7.5°	4399.7	4387.2	4389.4	4359.3	4328.5	4266.8	4179.4	4089.1	3986.2	3863.6	3735.8
10°	4614.1	4608.3	4617.1	4567.9	4524.5	4441.6	4329.2	4201.4	4058.9	3893.7	3729.2
12.5°	4852.1	4835.2	4843.3	4788.9	4731.6	4622.9	4480.5	4317.4	4133.8	3926.8	3718.9
15°	5080.5	5083.4	5079.0	5021.7	4949.0	4814.6	4641.3	4437.9	4211.7	3957.6	3706.4
17.5°	5280.2	5291.2	5288.3	5228.8	5129.7	4981.3	4781.6	4537.8	4266.8	3967.9	3669.7
20°	5459.4	5467.5	5462.4	5398.5	5285.4	5116.5	4890.3	4610.5	4294.7	3949.5	3611.7
22.5°	5617.3	5622.4	5618.0	5547.5	5421.2	5233.2	4982.1	4664.8	4307.9	3925.3	3553.0
25°	5780.3	5778.9	5775.2	5698.8	5560.8	5350.7	5070.2	4716.2	4326.3	3906.9	3497.9
27.5°	5916.9	5928.7	5919.1	5847.2	5696.6	5461.6	5148.0	4761.7	4340.9	3884.2	3436.2
30°	6044.7	6040.3	6033.0	5956.6	5798.0	5543.1	5198.7	4784.5	4335.1	3844.5	3362.7
32.5°	6127.7	6127.7	6110.8	6037.4	5873.6	5598.9	5228.1	4794.1	4314.5	3789.4	3271.7
35°	6195.3	6193.1	6176.9	6103.5	5935.3	5645.9	5252.3	4795.5	4287.3	3728.5	3174.7
37.5°	6241.5	6240.1	6224.6	6148.3	5973.5	5666.5	5263.3	4784.5	4246.9	3655.0	3069.7
39°	6252.5	6252.5	6237.9	6160.0	5986.0	5668.0	5263.3	4772.0	4214.6	3607.3	3002.9
40°	6251.1	6251.1	6236.4	6160.7	5985.2	5661.4	5256.0	4756.6	4189.7	3571.3	2956.6
42.5°	6220.2	6221.7	6207.0	6135.0	5961.0	5629.8	5214.9	4703.7	4113.3	3471.4	2832.5
45°	6151.2	6151.2	6138.0	6070.4	5892.0	5560.8	5143.6	4617.1	4015.6	3351.7	2698.1
47.5°	6033.7	6036.6	6022.0	5959.5	5778.9	5464.6	5048.9	4510.6	3895.9	3219.5	2545.4
50°	5869.9	5874.3	5859.7	5798.7	5634.2	5330.9	4918.9	4376.9	3746.8	3072.7	2380.9
52.5°	5648.9	5650.4	5643.7	5591.6	5443.3	5153.9	4752.2	4213.2	3582.3	2897.9	2205.4
55°	5370.6	5376.4	5367.6	5318.4	5195.0	4933.6	4549.5	4017.1	3388.4	2714.3	2013.7
57.5°	5024.7	5031.3	5025.4	4986.5	4890.3	4666.3	4306.4	3789.4	3193.8	2503.5	1812.5
60°	4661.9	4670.7	4664.1	4628.1	4535.6	4357.1	4028.8	3531.7	2944.9	2278.1	1605.4
62.5°	4262.4	4269.7	4263.8	4255.0	4167.6	4012.7	3729.9	3249.7	2690.0	2045.3	1394.6
65°	3735.8	3746.1	3725.5	3763.7	3748.3	3594.8	3375.2	2947.1	2400.7	1778.7	1188.2
67.5°	3387.7	3390.7	3359.8	3325.3	3217.3	3189.4	3000.0	2621.0	2103.3	1526.8	981.1
70°	2818.6	2763.5	2770.8	2817.1	2857.5	2701.8	2596.0	2265.6	1791.2	1263.1	782.9
72.5°	2139.3	2093.0	2104.7	2131.9	2201.7	2272.9	2112.1	1907.2	1473.9	1019.3	586.0
75°	1506.2	1459.2	1473.2	1495.9	1549.6	1614.9	1656.0	1480.5	1137.6	769.6	426.7
77.5°	939.3	925.3	909.2	923.9	965.0	1023.0	1072.9	1064.1	814.4	537.6	279.1
80°	446.5	434.0	425.9	437.7	464.1	533.2	576.5	576.5	500.9	329.0	158.6
82.5°	82.3	80.0	79.3	89.6	101.3	159.4	210.0	234.3	226.9	152.0	65.4
85°	38.2	36.0	36.7	37.5	38.2	42.6	44.8	53.6	63.2	41.9	21.3
87.5°	13.2	14.0	14.0	15.4	14.7	16.2	16.9	18.4	16.9	13.2	11.0
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°	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2
2.5°	3667.5	3647.0	3608.0	3566.9	3530.2	3489.8	3464.1	3450.1	3433.2	3436.2	3426.6
5°	3678.5	3635.9	3560.3	3484.7	3417.8	3350.3	3303.3	3270.9	3243.8	3241.6	3232.8
7.5°	3673.4	3609.5	3497.1	3388.4	3291.5	3195.3	3127.0	3080.7	3040.4	3033.0	3024.9
10°	3647.7	3566.9	3419.3	3273.9	3151.2	3029.3	2941.9	2879.5	2828.1	2815.6	2803.9
12.5°	3617.6	3520.6	3337.0	3162.3	3016.1	2881.0	2769.4	2690.0	2631.3	2602.7	2599.7
15°	3585.3	3468.5	3248.9	3050.6	2874.4	2726.8	2600.5	2507.9	2438.2	2405.1	2400.0
17.5°	3530.2	3393.6	3143.9	2917.0	2718.7	2555.7	2414.7	2311.1	2231.8	2195.1	2187.0
20°	3451.6	3300.3	3020.5	2766.4	2547.6	2366.2	2215.6	2104.0	2017.4	1972.6	1962.3
22.5°	3373.0	3205.6	2897.9	2618.8	2378.7	2179.7	2014.4	1894.7	1801.4	1752.2	1742.7
25°	3301.1	3121.1	2779.6	2477.8	2215.6	1997.5	1816.9	1678.1	1589.9	1536.3	1525.3
27.5°	3221.7	3025.7	2656.3	2331.7	2050.4	1813.9	1618.6	1470.2	1375.5	1317.5	1327.0
30°	3127.0	2914.8	2520.4	2165.7	1872.7	1623.0	1415.2	1260.2	1161.8	1098.6	1108.2
32.5°	3019.1	2793.6	2375.0	2002.7	1698.6	1428.4	1219.1	1053.8	952.5	894.5	893.0
35°	2906.7	2667.3	2221.5	1840.4	1520.2	1236.0	1017.1	854.1	733.6	683.0	679.3
37.5°	2787.0	2535.1	2081.2	1675.9	1344.7	1050.9	828.4	649.9	538.3	476.6	472.2
39°	2713.5	2456.5	1989.4	1574.5	1238.2	940.7	714.6	533.9	420.1	363.5	360.6
40°	2661.4	2402.2	1926.3	1507.7	1167.7	869.5	638.2	456.8	349.6	296.7	293.0
42.5°	2532.2	2258.2	1768.4	1338.8	992.2	694.7	456.1	290.8	223.3	204.2	202.7
45°	2379.4	2100.3	1596.6	1175.0	821.0	520.7	295.2	199.8	173.3	163.8	162.3
47.5°	2221.5	1936.6	1425.4	1010.5	659.5	360.6	196.1	159.4	143.2	137.3	136.6
50°	2052.6	1765.5	1270.5	849.7	501.6	228.4	154.2	131.5	121.9	118.2	117.5
52.5°	1883.7	1589.9	1099.4	686.6	351.8	162.3	127.8	112.4	106.5	104.3	103.5
55°	1687.6	1413.0	932.7	542.7	225.5	130.7	107.2	97.7	94.0	90.3	90.3
57.5°	1507.7	1233.8	777.7	401.0	149.8	107.2	91.8	85.2	80.8	77.8	77.1
60°	1315.3	1055.3	625.7	272.5	116.8	89.6	80.0	74.9	70.5	67.6	66.8
62.5°	1122.1	878.3	484.0	163.8	93.3	75.6	70.5	65.4	61.7	58.8	58.8
65°	934.1	711.6	353.2	108.0	75.6	64.6	60.2	56.5	53.6	51.4	51.4
67.5°	751.3	548.6	239.4	82.3	61.0	55.1	52.1	49.2	46.3	44.8	44.8
70°	579.4	408.3	143.9	61.7	49.9	46.3	44.8	41.9	40.4	38.2	38.2
72.5°	423.7	283.5	78.6	47.7	40.4	38.2	37.5	35.3	33.8	32.3	32.3
75°	297.4	179.9	49.2	36.7	31.6	30.8	30.8	29.4	27.9	26.4	26.4
77.5°	184.3	99.9	33.8	26.4	24.2	24.2	24.2	22.8	21.3	20.6	19.8
80°	98.4	47.7	22.8	19.1	17.6	17.6	17.6	16.9	15.4	14.7	14.0
82.5°	41.1	22.0	14.7	12.5	11.0	11.8	11.8	10.3	8.8	7.3	7.3
85°	15.4	12.5	10.3	8.8	8.1	7.3	6.6	5.1	3.7	2.9	2.9
87.5°	9.5	8.8	8.1	7.3	6.6	5.1	4.4	2.9	1.5	0.7	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)