

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: P231792

Luminaire Tested: **AXCL12A-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231792
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: AXCL12A-W
Description: AXCENT CUTOFF WALLPACK
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14662 lumens
Efficiency: N/A
Efficacy: 118.8 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

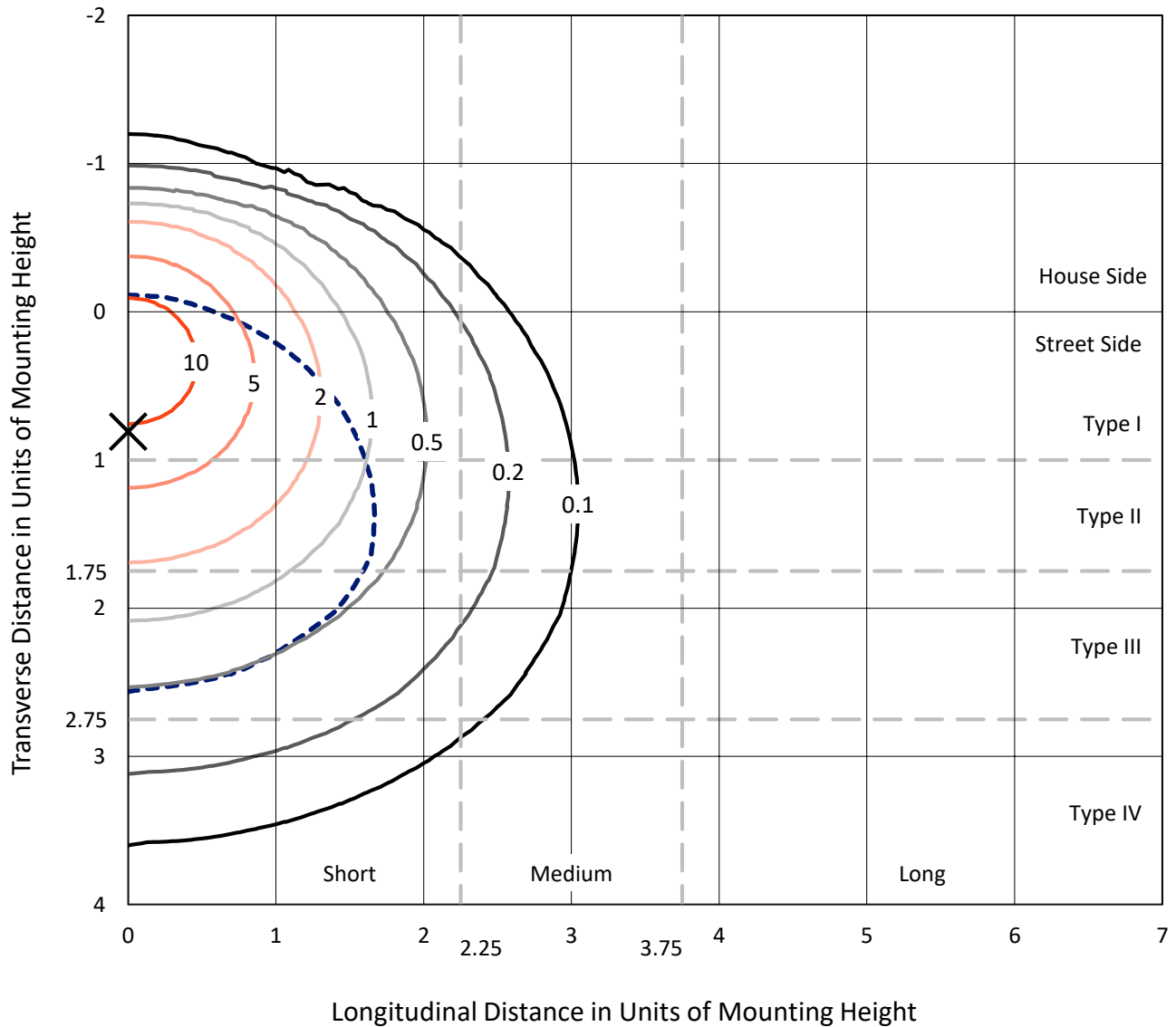
Input Watts (W): 123.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

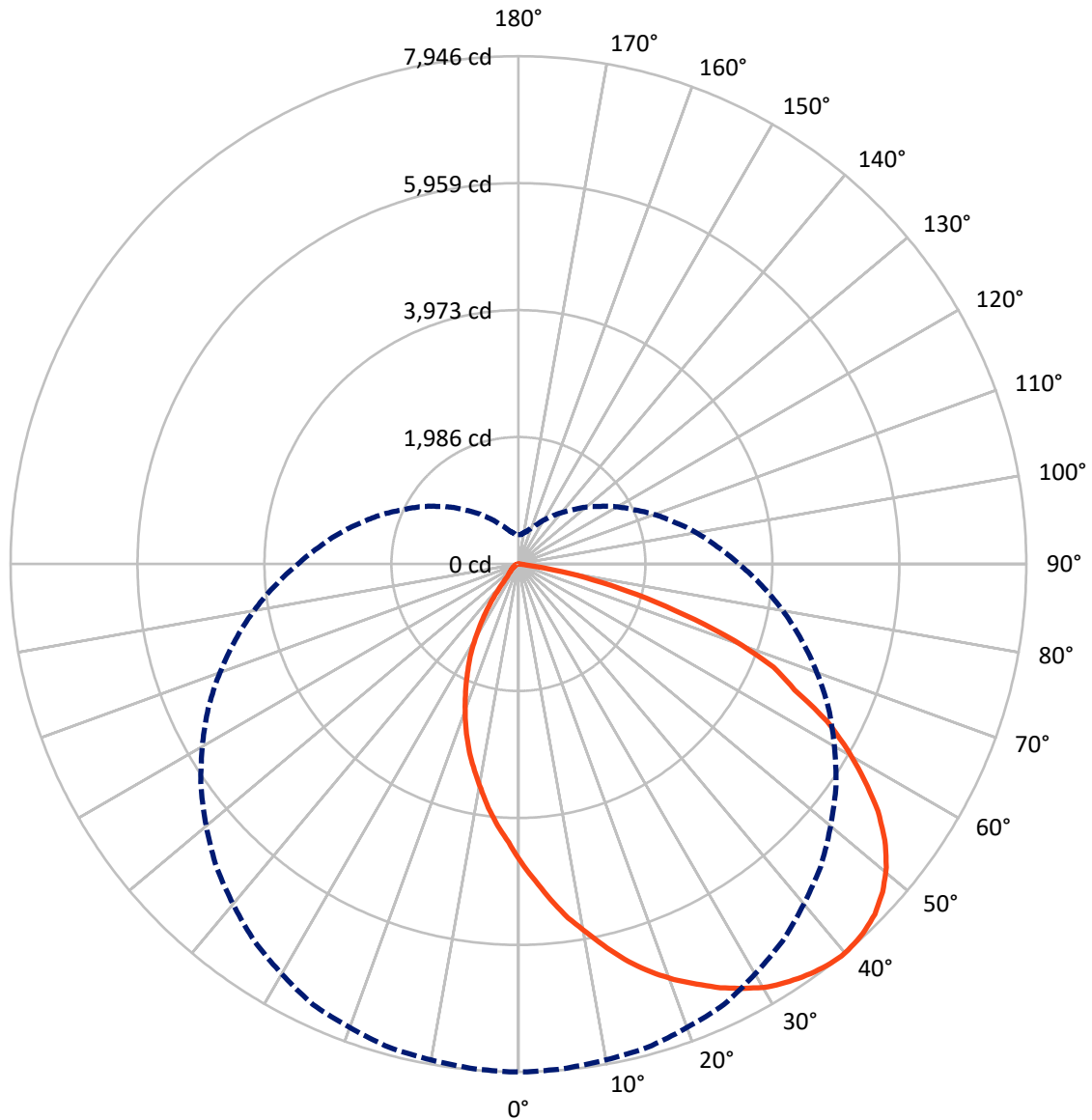
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.5 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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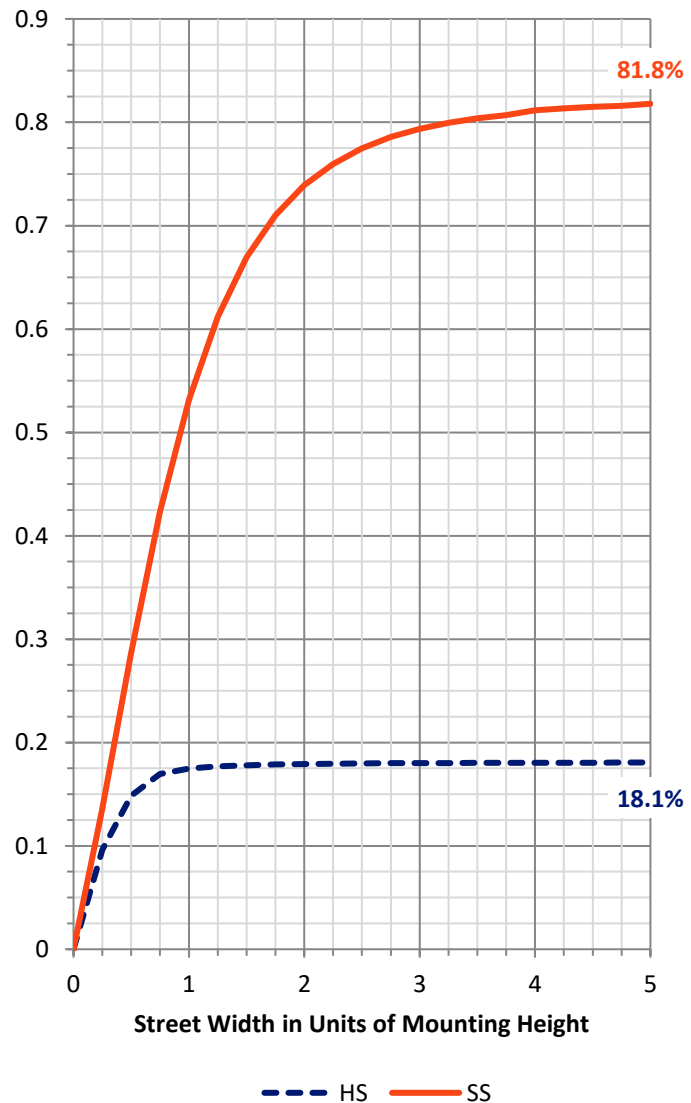
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2674.3	0.0	2674.3
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	11987.7	0.0	11987.7
	% Fixture	81.8	0.0	81.8
Total	Lumens	14662.0	0.0	14662.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.8	3.0
10°-20°	1317.8	9.0
20°-30°	2056.3	14.0
30°-40°	2557.3	17.4
40°-50°	2752.4	18.8
50°-60°	2586.1	17.6
60°-70°	1958.9	13.4
70°-80°	906.9	6.2
80°-90°	79.6	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°	14662.0	100.0
0°-180°	14662.0	100.0

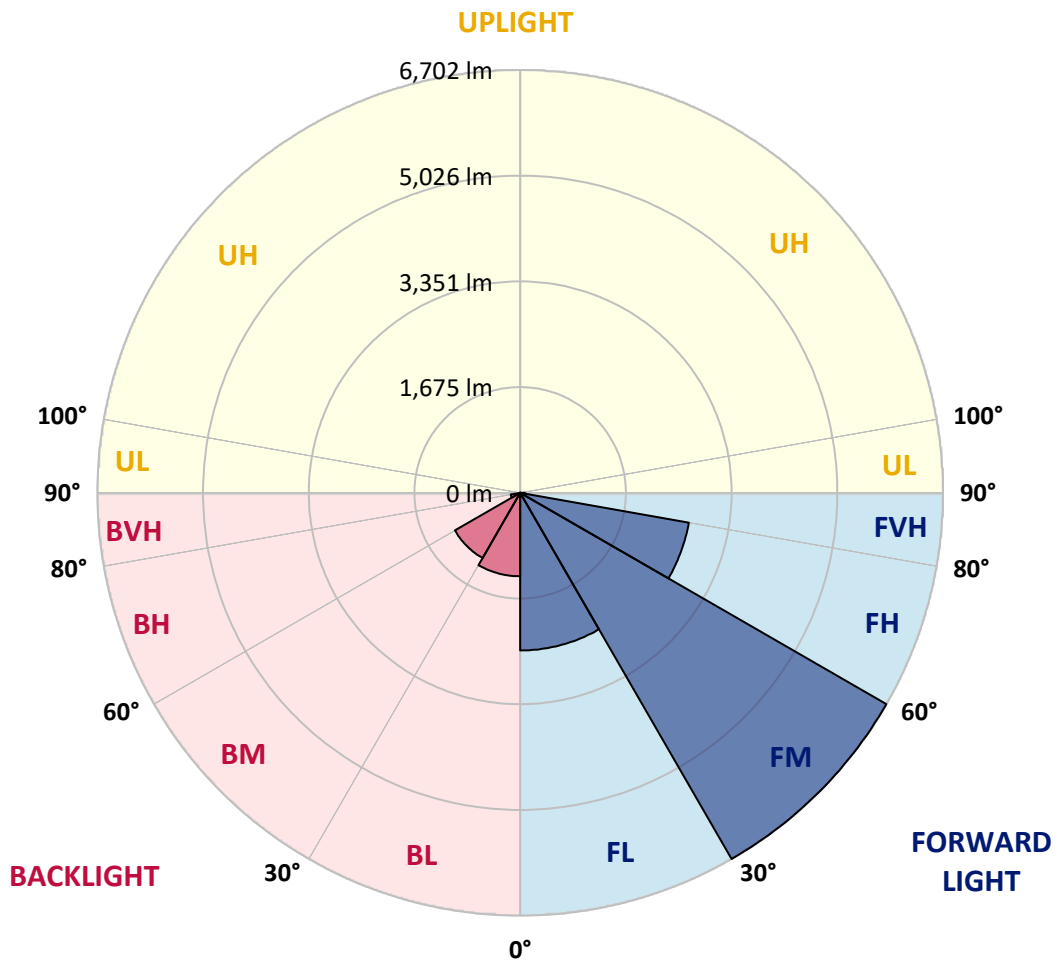


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2498.1	17.0			
FM (30°-60°)	6701.9	45.7			
FH (60°-80°)	2714.3	18.5			G2/5000
FVH (80°-90°)	73.3	0.5			G1/100
BL (0°-30°)	1322.8	9.0	B3/2500		
BM (30°-60°)	1193.8	8.1	B2/2500		
BH (60°-80°)	151.4	1.0	B1/500		G1/500
BVH (80°-90°)	6.3	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°	4665.2	4665.2	4665.2	4665.2	4665.2	4665.2	4665.2	4665.2	4665.2	4665.2	4665.2
2.5°	4955.4	4935.8	4946.1	4928.4	4926.5	4906.0	4868.6	4840.6	4805.2	4749.2	4690.4
5°	5276.5	5255.0	5264.3	5233.5	5214.9	5168.2	5092.6	5023.5	4943.3	4835.0	4727.7
7.5°	5590.9	5575.1	5577.9	5539.6	5500.4	5422.0	5311.0	5196.2	5065.5	4909.7	4747.3
10°	5863.4	5856.0	5867.2	5804.7	5749.6	5644.1	5501.4	5339.0	5157.9	4948.0	4738.9
12.5°	6165.8	6144.3	6154.6	6085.6	6012.8	5874.6	5693.6	5486.4	5253.1	4990.0	4725.8
15°	6456.0	6459.8	6454.2	6381.4	6289.0	6118.2	5898.0	5639.5	5352.0	5029.1	4710.0
17.5°	6709.9	6723.9	6720.1	6644.6	6518.6	6330.1	6076.2	5766.4	5422.0	5042.2	4663.3
20°	6937.6	6947.9	6941.3	6860.1	6716.4	6501.8	6214.3	5858.8	5457.5	5018.9	4589.6
22.5°	7138.2	7144.8	7139.2	7049.6	6889.1	6650.2	6331.0	5927.8	5474.3	4988.1	4514.9
25°	7345.4	7343.5	7338.9	7241.8	7066.4	6799.5	6443.0	5993.2	5497.6	4964.8	4444.9
27.5°	7519.0	7533.9	7521.8	7430.3	7239.0	6940.4	6541.9	6051.0	5516.3	4935.8	4366.6
30°	7681.4	7675.8	7666.4	7569.4	7367.8	7044.0	6606.3	6080.0	5508.8	4885.4	4273.2
32.5°	7786.8	7786.8	7765.4	7672.0	7463.9	7114.9	6643.6	6092.1	5482.7	4815.4	4157.5
35°	7872.7	7869.9	7849.3	7756.0	7542.3	7174.6	6674.4	6094.0	5448.2	4738.0	4034.3
37.5°	7931.5	7929.6	7910.0	7813.0	7590.8	7200.8	6688.4	6080.0	5396.8	4644.7	3900.9
39°	7945.5	7945.5	7926.8	7827.9	7606.7	7202.6	6688.4	6064.1	5355.8	4584.0	3816.0
40°	7943.6	7943.6	7924.9	7828.8	7605.8	7194.2	6679.1	6044.5	5324.0	4538.3	3757.2
42.5°	7904.4	7906.3	7887.6	7796.2	7575.0	7154.1	6626.8	5977.3	5227.0	4411.4	3599.4
45°	7816.7	7816.7	7799.9	7714.0	7487.3	7066.4	6536.3	5867.2	5102.9	4259.2	3428.7
47.5°	7667.4	7671.1	7652.4	7573.1	7343.5	6944.1	6415.9	5731.9	4950.8	4091.3	3234.6
50°	7459.3	7464.9	7446.2	7368.7	7159.7	6774.3	6250.7	5562.0	4761.3	3904.6	3025.5
52.5°	7178.4	7180.2	7171.8	7105.6	6917.1	6549.4	6038.9	5353.9	4552.3	3682.5	2802.5
55°	6824.7	6832.1	6820.9	6758.4	6601.6	6269.4	5781.3	5104.7	4305.9	3449.2	2558.9
57.5°	6385.1	6393.5	6386.1	6336.6	6214.3	5929.7	5472.4	4815.4	4058.6	3181.4	2303.2
60°	5924.1	5935.3	5926.9	5881.2	5763.6	5536.8	5119.7	4487.9	3742.2	2894.9	2040.0
62.5°	5416.4	5425.8	5418.3	5407.1	5296.0	5099.1	4739.8	4129.5	3418.4	2599.0	1772.2
65°	4747.3	4760.4	4734.2	4782.8	4763.2	4568.1	4289.1	3745.0	3050.7	2260.3	1510.0
67.5°	4305.0	4308.7	4269.5	4225.6	4088.5	4053.0	3812.2	3330.7	2672.8	1940.2	1246.8
70°	3581.7	3511.7	3521.1	3579.8	3631.2	3433.3	3298.9	2879.0	2276.1	1605.1	994.8
72.5°	2718.5	2659.7	2674.6	2709.2	2797.8	2888.3	2684.0	2423.6	1873.0	1295.3	744.7
75°	1914.0	1854.3	1872.0	1901.0	1969.1	2052.2	2104.4	1881.4	1445.6	978.0	542.2
77.5°	1193.6	1175.9	1155.3	1174.0	1226.3	1300.0	1363.4	1352.2	1034.9	683.1	354.6
80°	567.4	551.5	541.3	556.2	589.8	677.5	732.6	732.6	636.5	418.1	201.6
82.5°	104.5	101.7	100.8	113.9	128.8	202.5	266.9	297.7	288.4	193.2	83.1
85°	48.5	45.7	46.7	47.6	48.5	54.1	56.9	68.1	80.3	53.2	27.1
87.5°	16.8	17.7	17.7	19.6	18.7	20.5	21.5	23.3	21.5	16.8	14.0
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°	4665.2	4665.2	4665.2	4665.2	4665.2	4665.2	4665.2	4665.2	4665.2	4665.2	4665.2
2.5°	4660.5	4634.4	4584.9	4532.7	4486.0	4434.7	4402.0	4384.3	4362.8	4366.6	4354.4
5°	4674.5	4620.4	4524.3	4428.1	4343.2	4257.4	4197.6	4156.6	4122.1	4119.3	4108.1
7.5°	4668.0	4586.8	4444.0	4305.9	4182.7	4060.5	3973.7	3914.9	3863.5	3854.2	3844.0
10°	4635.3	4532.7	4345.1	4160.3	4004.5	3849.6	3738.5	3659.2	3593.8	3578.0	3563.1
12.5°	4597.1	4473.9	4240.6	4018.5	3832.8	3661.0	3519.2	3418.4	3343.7	3307.3	3303.6
15°	4556.0	4407.6	4128.6	3876.6	3652.6	3465.1	3304.5	3187.0	3098.3	3056.3	3049.8
17.5°	4486.0	4312.4	3995.1	3706.8	3454.8	3247.6	3068.4	2936.9	2836.1	2789.4	2779.1
20°	4386.2	4193.9	3838.4	3515.5	3237.4	3006.8	2815.5	2673.7	2563.6	2506.6	2493.6
22.5°	4286.3	4073.5	3682.5	3327.9	3022.7	2769.8	2559.8	2407.7	2289.2	2226.7	2214.5
25°	4194.8	3966.2	3532.3	3148.7	2815.5	2538.4	2308.8	2132.4	2020.4	1952.3	1938.3
27.5°	4094.1	3844.9	3375.5	2963.0	2605.6	2305.1	2056.8	1868.3	1747.9	1674.2	1686.3
30°	3973.7	3704.0	3202.8	2752.1	2379.7	2062.4	1798.3	1601.4	1476.4	1396.1	1408.2
32.5°	3836.5	3550.0	3018.0	2544.9	2158.5	1815.1	1549.2	1339.2	1210.4	1136.7	1134.8
35°	3693.7	3389.5	2823.0	2338.7	1931.8	1570.6	1292.5	1085.3	932.3	867.9	863.2
37.5°	3541.6	3221.5	2644.8	2129.6	1708.7	1335.4	1052.7	825.9	684.1	605.7	600.1
39°	3448.3	3121.6	2528.1	2000.8	1573.4	1195.5	908.0	678.5	533.8	461.9	458.2
40°	3382.0	3052.6	2447.8	1915.9	1483.8	1104.9	811.0	580.5	444.2	377.0	372.4
42.5°	3217.8	2869.7	2247.2	1701.3	1260.8	882.8	579.5	369.6	283.7	259.4	257.6
45°	3023.6	2669.0	2028.8	1493.2	1043.3	661.7	375.2	253.8	220.2	208.1	206.2
47.5°	2823.0	2460.9	1811.4	1284.1	838.0	458.2	249.2	202.5	182.0	174.5	173.6
50°	2608.4	2243.5	1614.5	1079.7	637.4	290.2	196.0	167.0	154.9	150.2	149.3
52.5°	2393.7	2020.4	1397.0	872.6	447.0	206.2	162.4	142.8	135.3	132.5	131.6
55°	2144.5	1795.5	1185.2	689.7	286.5	166.1	136.3	124.1	119.5	114.8	114.8
57.5°	1915.9	1567.8	988.3	509.5	190.4	136.3	116.7	108.3	102.7	98.9	98.0
60°	1671.4	1341.0	795.1	346.2	148.4	113.9	101.7	95.2	89.6	85.9	84.9
62.5°	1426.0	1116.1	615.0	208.1	118.5	96.1	89.6	83.1	78.4	74.7	74.7
65°	1187.1	904.3	448.9	137.2	96.1	82.1	76.5	71.9	68.1	65.3	65.3
67.5°	954.7	697.1	304.2	104.5	77.5	70.0	66.3	62.5	58.8	56.9	56.9
70°	736.3	518.9	182.9	78.4	63.5	58.8	56.9	53.2	51.3	48.5	48.5
72.5°	538.5	360.2	99.9	60.7	51.3	48.5	47.6	44.8	42.9	41.1	41.1
75°	378.0	228.6	62.5	46.7	40.1	39.2	39.2	37.3	35.5	33.6	33.6
77.5°	234.2	126.9	42.9	33.6	30.8	30.8	30.8	28.9	27.1	26.1	25.2
80°	125.1	60.7	28.9	24.3	22.4	22.4	22.4	21.5	19.6	18.7	17.7
82.5°	52.3	28.0	18.7	15.9	14.0	14.9	14.9	13.1	11.2	9.3	9.3
85°	19.6	15.9	13.1	11.2	10.3	9.3	8.4	6.5	4.7	3.7	3.7
87.5°	12.1	11.2	10.3	9.3	8.4	6.5	5.6	3.7	1.9	0.9	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)