

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: P231788

Luminaire Tested: **AXCL10A-C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231788
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-C
Description: AXCENT CUTOFF WALLPACK
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13014 lumens
Efficiency: N/A
Efficacy: 127.6 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

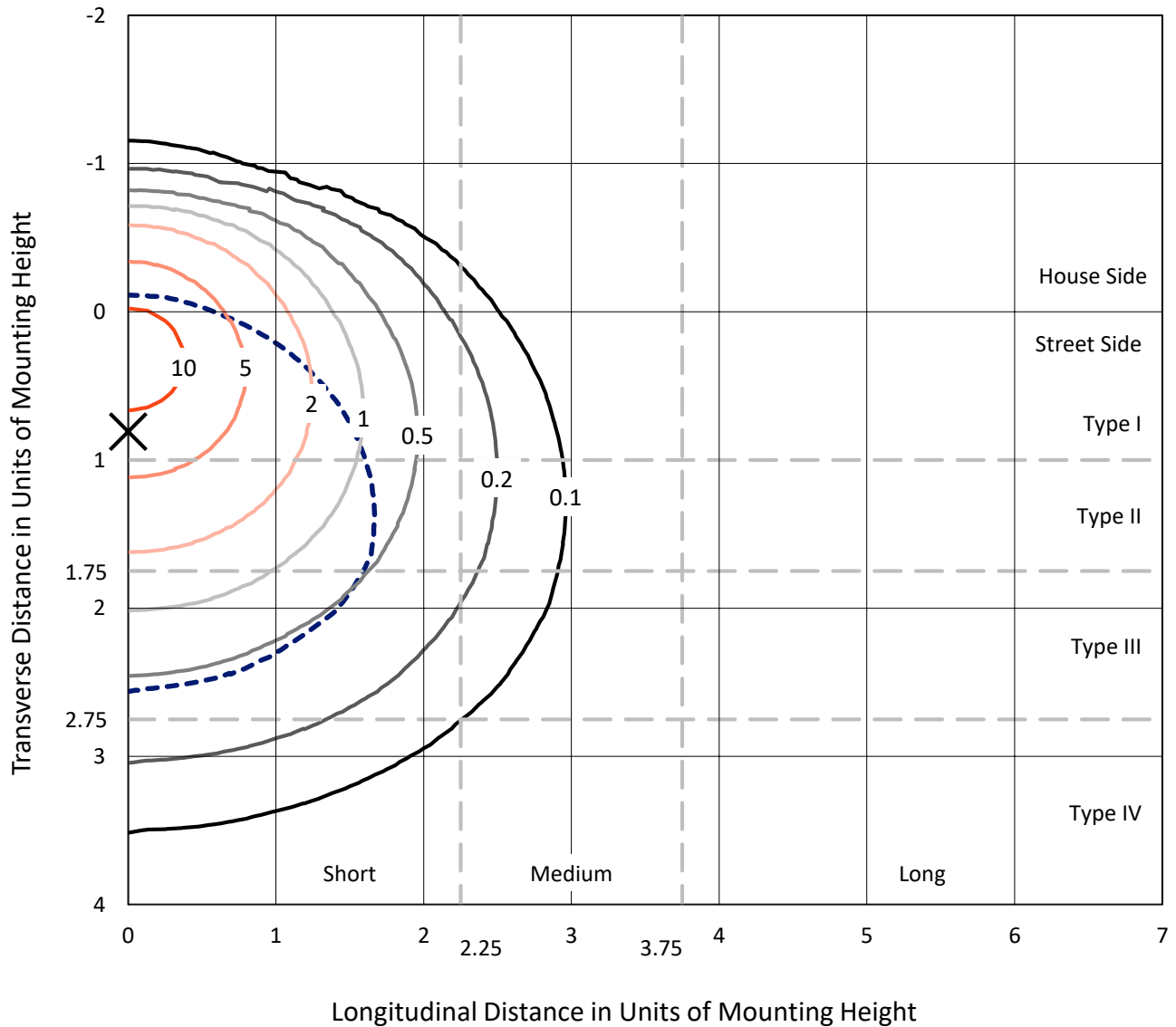
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

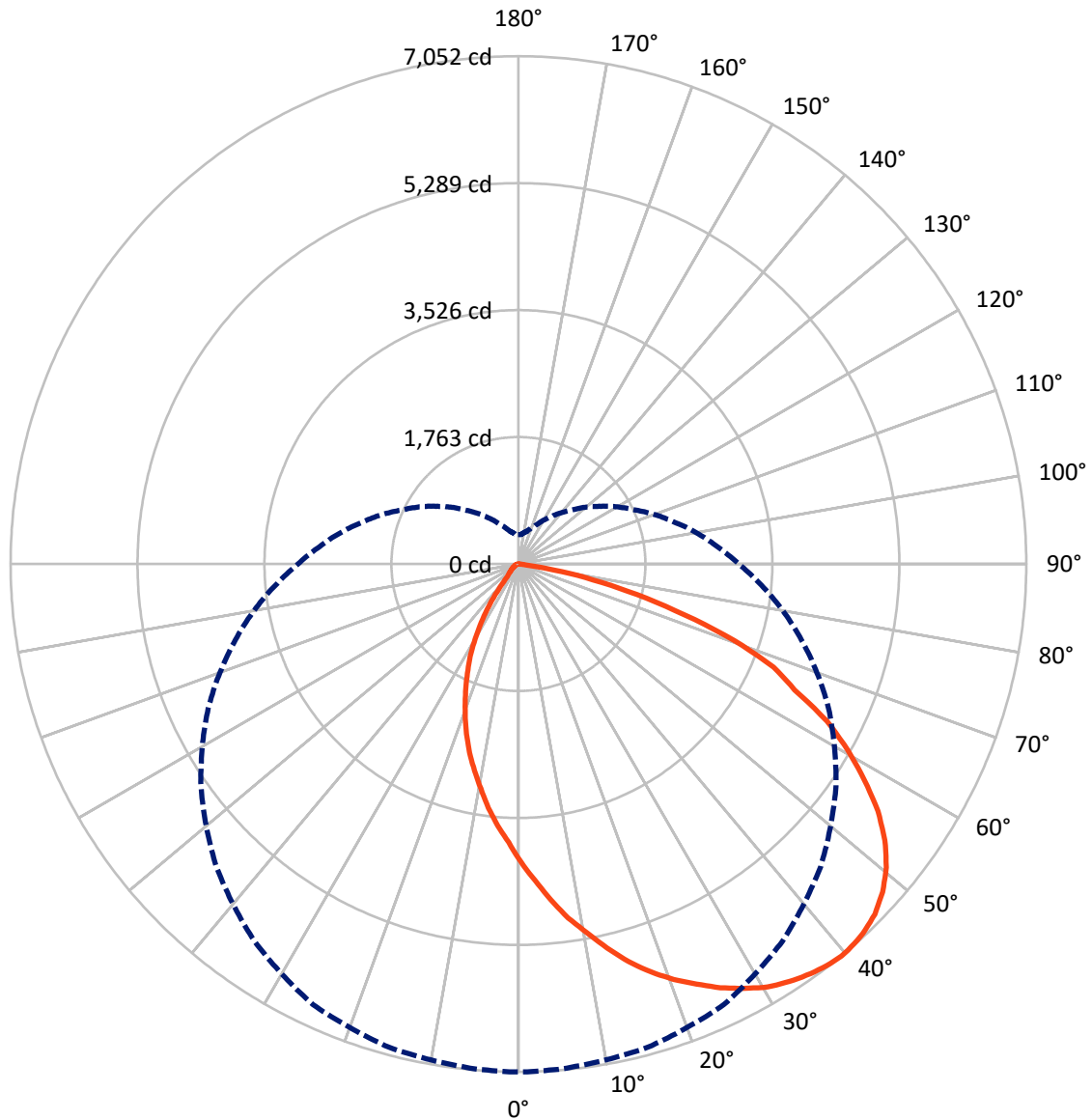
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.9 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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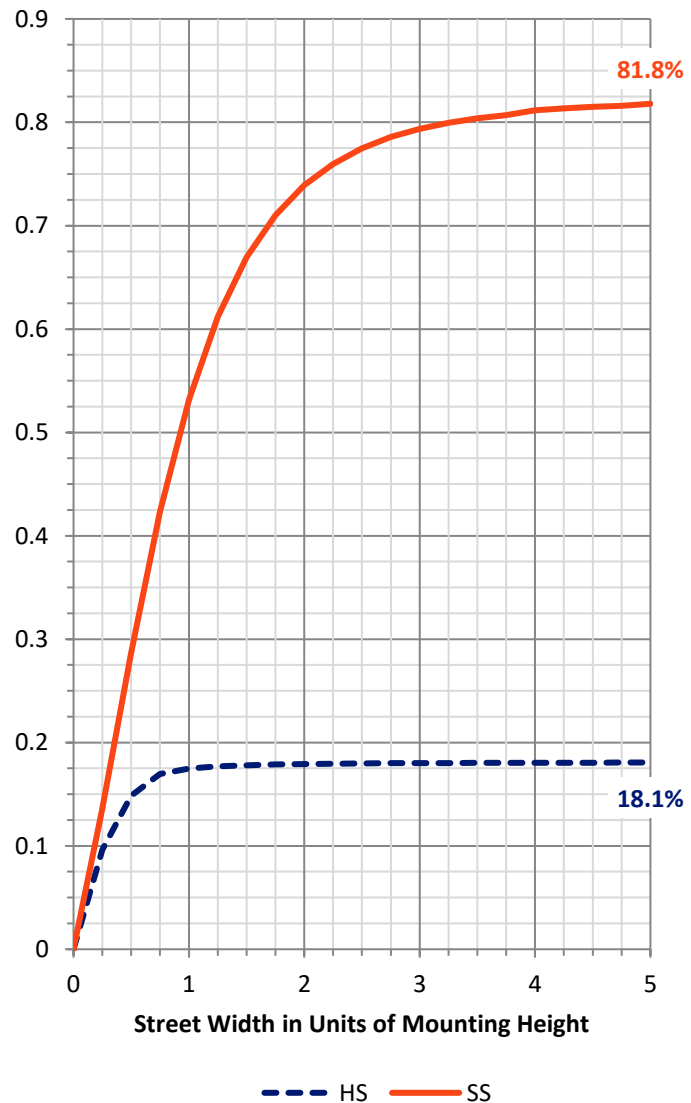
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2373.7	0.0	2373.7
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	10640.3	0.0	10640.3
	% Fixture	81.8	0.0	81.8
Total	Lumens	13014.0	0.0	13014.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.6	3.0
10°-20°	1169.7	9.0
20°-30°	1825.2	14.0
30°-40°	2269.9	17.4
40°-50°	2443.0	18.8
50°-60°	2295.4	17.6
60°-70°	1738.7	13.4
70°-80°	804.9	6.2
80°-90°	70.6	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°	13014.0	100.0
0°-180°	13014.0	100.0



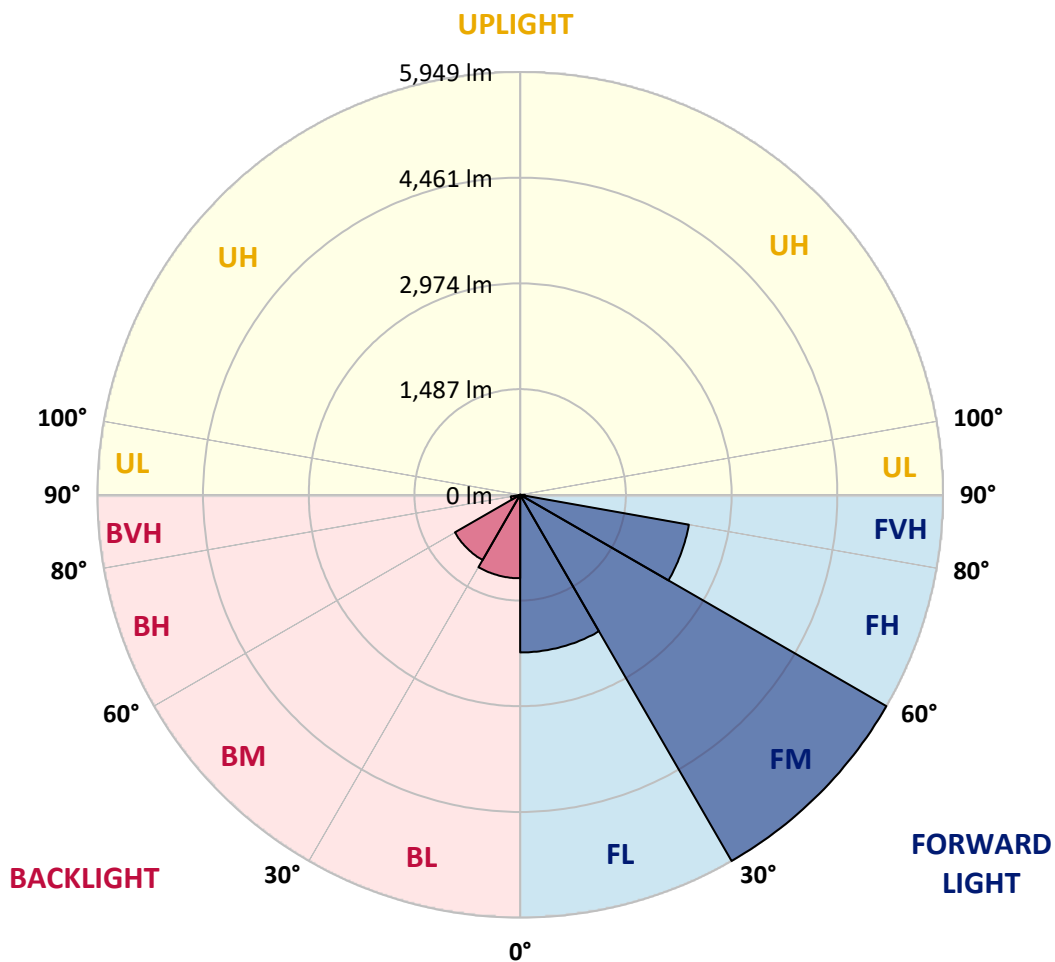
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2217.3	17.0			
FM	(30°-60°)	5948.7	45.7			
FH	(60°-80°)	2409.2	18.5			G2/5000
FVH	(80°-90°)	65.0	0.5			G1/100
BL	(0°-30°)	1174.1	9.0	B3/2500		
BM	(30°-60°)	1059.6	8.1	B2/2500		
BH	(60°-80°)	134.4	1.0	B1/500		G1/500
BVH	(80°-90°)	5.6	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°	4140.8	4140.8	4140.8	4140.8	4140.8	4140.8	4140.8	4140.8	4140.8	4140.8	4140.8
2.5°	4398.4	4381.0	4390.2	4374.4	4372.8	4354.5	4321.4	4296.6	4265.1	4215.4	4163.2
5°	4683.4	4664.3	4672.6	4645.3	4628.7	4587.3	4520.2	4458.9	4387.7	4291.6	4196.3
7.5°	4962.5	4948.4	4950.9	4917.0	4882.2	4812.6	4714.0	4612.1	4496.2	4357.8	4213.7
10°	5204.4	5197.8	5207.7	5152.2	5103.3	5009.7	4883.0	4738.9	4578.2	4391.8	4206.3
12.5°	5472.8	5453.7	5462.8	5401.5	5336.9	5214.3	5053.6	4869.8	4662.7	4429.1	4194.7
15°	5730.4	5733.7	5728.7	5664.1	5582.1	5430.5	5235.0	5005.6	4750.5	4463.9	4180.6
17.5°	5955.7	5968.1	5964.8	5897.7	5785.9	5618.6	5393.3	5118.3	4812.6	4475.5	4139.2
20°	6157.8	6166.9	6161.1	6089.1	5961.5	5771.0	5515.9	5200.3	4844.1	4454.8	4073.7
22.5°	6335.9	6341.7	6336.7	6257.2	6114.7	5902.7	5619.4	5261.6	4859.0	4427.4	4007.5
25°	6519.8	6518.1	6514.0	6427.8	6272.1	6035.2	5718.8	5319.5	4879.7	4406.7	3945.3
27.5°	6673.9	6687.1	6676.3	6595.2	6425.4	6160.3	5806.6	5370.9	4896.3	4381.0	3875.8
30°	6818.0	6813.0	6804.7	6718.6	6539.7	6252.2	5863.8	5396.6	4889.6	4336.3	3792.9
32.5°	6911.6	6911.6	6892.5	6809.7	6625.0	6315.2	5896.9	5407.3	4866.4	4274.2	3690.2
35°	6987.8	6985.3	6967.1	6884.3	6694.6	6368.2	5924.2	5409.0	4835.8	4205.4	3580.9
37.5°	7040.0	7038.3	7020.9	6934.8	6737.6	6391.4	5936.6	5396.6	4790.2	4122.6	3462.4
39°	7052.4	7052.4	7035.8	6948.0	6751.7	6393.1	5936.6	5382.5	4753.8	4068.8	3387.0
40°	7050.7	7050.7	7034.2	6948.9	6750.9	6385.6	5928.4	5365.1	4725.6	4028.2	3334.9
42.5°	7016.0	7017.6	7001.0	6919.9	6723.6	6350.0	5882.0	5305.5	4639.5	3915.5	3194.9
45°	6938.1	6938.1	6923.2	6847.0	6645.7	6272.1	5801.6	5207.7	4529.3	3780.5	3043.3
47.5°	6805.6	6808.9	6792.3	6721.9	6518.1	6163.6	5694.8	5087.6	4394.3	3631.4	2871.0
50°	6620.8	6625.8	6609.2	6540.5	6355.0	6012.9	5548.2	4936.8	4226.1	3465.7	2685.4
52.5°	6371.5	6373.2	6365.7	6306.9	6139.6	5813.2	5360.1	4752.1	4040.6	3268.6	2487.5
55°	6057.6	6064.2	6054.3	5998.8	5859.6	5564.7	5131.5	4531.0	3821.9	3061.5	2271.3
57.5°	5667.4	5674.9	5668.3	5624.4	5515.9	5263.2	4857.3	4274.2	3602.4	2823.8	2044.3
60°	5258.2	5268.2	5260.7	5220.1	5115.8	4914.5	4544.2	3983.4	3321.6	2569.5	1810.7
62.5°	4807.6	4815.9	4809.3	4799.3	4700.8	4526.0	4207.1	3665.4	3034.2	2306.9	1573.0
65°	4213.7	4225.3	4202.1	4245.2	4227.8	4054.7	3807.0	3324.1	2707.8	2006.2	1340.2
67.5°	3821.1	3824.4	3789.6	3750.7	3628.9	3597.4	3383.7	2956.3	2372.3	1722.1	1106.6
70°	3179.1	3117.0	3125.3	3177.5	3223.0	3047.4	2928.1	2555.4	2020.3	1424.7	883.0
72.5°	2412.9	2360.7	2374.0	2404.6	2483.3	2563.7	2382.3	2151.2	1662.5	1149.7	661.0
75°	1698.9	1645.9	1661.6	1687.3	1747.8	1821.5	1867.9	1669.9	1283.1	868.1	481.3
77.5°	1059.4	1043.7	1025.5	1042.0	1088.4	1153.9	1210.2	1200.3	918.6	606.3	314.8
80°	503.6	489.5	480.4	493.7	523.5	601.4	650.2	650.2	564.9	371.1	178.9
82.5°	92.8	90.3	89.5	101.1	114.3	179.7	236.9	264.2	256.0	171.5	73.7
85°	43.1	40.6	41.4	42.2	43.1	48.0	50.5	60.5	71.2	47.2	24.0
87.5°	14.9	15.7	15.7	17.4	16.6	18.2	19.1	20.7	19.1	14.9	12.4
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°	4140.8	4140.8	4140.8	4140.8	4140.8	4140.8	4140.8	4140.8	4140.8	4140.8	4140.8
2.5°	4136.7	4113.5	4069.6	4023.2	3981.8	3936.2	3907.2	3891.5	3872.4	3875.8	3865.0
5°	4149.1	4101.1	4015.7	3930.4	3855.1	3778.8	3725.8	3689.4	3658.7	3656.3	3646.3
7.5°	4143.3	4071.2	3944.5	3821.9	3712.6	3604.1	3527.0	3474.8	3429.3	3421.0	3411.9
10°	4114.3	4023.2	3856.7	3692.7	3554.4	3416.9	3318.3	3247.9	3189.9	3175.8	3162.6
12.5°	4080.4	3971.0	3763.9	3566.8	3402.0	3249.5	3123.6	3034.2	2967.9	2935.6	2932.3
15°	4043.9	3912.2	3664.5	3440.9	3242.1	3075.6	2933.1	2828.7	2750.1	2712.8	2707.0
17.5°	3981.8	3827.7	3546.1	3290.1	3066.5	2882.6	2723.6	2606.8	2517.3	2475.9	2466.8
20°	3893.2	3722.5	3406.9	3120.3	2873.5	2668.9	2499.1	2373.2	2275.4	2224.9	2213.3
22.5°	3804.5	3615.7	3268.6	2953.8	2683.0	2458.5	2272.1	2137.1	2031.9	1976.4	1965.6
25°	3723.3	3520.4	3135.2	2794.8	2499.1	2253.1	2049.3	1892.7	1793.3	1732.9	1720.4
27.5°	3633.9	3412.7	2996.1	2629.9	2312.7	2046.0	1825.6	1658.3	1551.5	1486.0	1496.8
30°	3527.0	3287.6	2842.8	2442.7	2112.2	1830.6	1596.2	1421.4	1310.4	1239.2	1250.0
32.5°	3405.3	3151.0	2678.8	2258.9	1915.9	1611.1	1375.0	1188.7	1074.3	1008.9	1007.2
35°	3278.5	3008.5	2505.7	2075.8	1714.6	1394.1	1147.2	963.3	827.5	770.3	766.2
37.5°	3143.5	2859.4	2347.5	1890.3	1516.7	1185.3	934.4	733.1	607.2	537.6	532.6
39°	3060.7	2770.8	2243.9	1775.9	1396.6	1061.1	806.0	602.2	473.8	410.0	406.7
40°	3001.9	2709.5	2172.7	1700.6	1317.0	980.7	719.8	515.2	394.3	334.6	330.5
42.5°	2856.1	2547.1	1994.6	1510.0	1119.1	783.6	514.4	328.0	251.8	230.3	228.6
45°	2683.8	2369.0	1800.8	1325.3	926.1	587.3	333.0	225.3	195.5	184.7	183.1
47.5°	2505.7	2184.3	1607.8	1139.8	743.8	406.7	221.2	179.7	161.5	154.9	154.1
50°	2315.2	1991.3	1433.0	958.4	565.7	257.6	173.9	148.3	137.5	133.4	132.5
52.5°	2124.7	1793.3	1240.0	774.5	396.8	183.1	144.1	126.7	120.1	117.6	116.8
55°	1903.5	1593.7	1052.0	612.1	254.3	147.4	120.9	110.2	106.0	101.9	101.9
57.5°	1700.6	1391.6	877.2	452.3	169.0	120.9	103.5	96.1	91.1	87.8	87.0
60°	1483.5	1190.3	705.7	307.3	131.7	101.1	90.3	84.5	79.5	76.2	75.4
62.5°	1265.7	990.7	545.9	184.7	105.2	85.3	79.5	73.7	69.6	66.3	66.3
65°	1053.6	802.7	398.4	121.8	85.3	72.9	67.9	63.8	60.5	58.0	58.0
67.5°	847.4	618.8	270.0	92.8	68.8	62.1	58.8	55.5	52.2	50.5	50.5
70°	653.6	460.6	162.4	69.6	56.3	52.2	50.5	47.2	45.6	43.1	43.1
72.5°	477.9	319.7	88.6	53.8	45.6	43.1	42.2	39.8	38.1	36.4	36.4
75°	335.5	202.9	55.5	41.4	35.6	34.8	34.8	33.1	31.5	29.8	29.8
77.5°	207.9	112.7	38.1	29.8	27.3	27.3	27.3	25.7	24.0	23.2	22.4
80°	111.0	53.8	25.7	21.5	19.9	19.9	19.9	19.1	17.4	16.6	15.7
82.5°	46.4	24.8	16.6	14.1	12.4	13.3	13.3	11.6	9.9	8.3	8.3
85°	17.4	14.1	11.6	9.9	9.1	8.3	7.5	5.8	4.1	3.3	3.3
87.5°	10.8	9.9	9.1	8.3	7.5	5.8	5.0	3.3	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)