

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: P231791

Luminaire Tested: **AXCL12A-C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231791
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-C
Description: AXCENT CUTOFF WALLPACK
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16538 lumens
Efficiency: N/A
Efficacy: 134.0 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

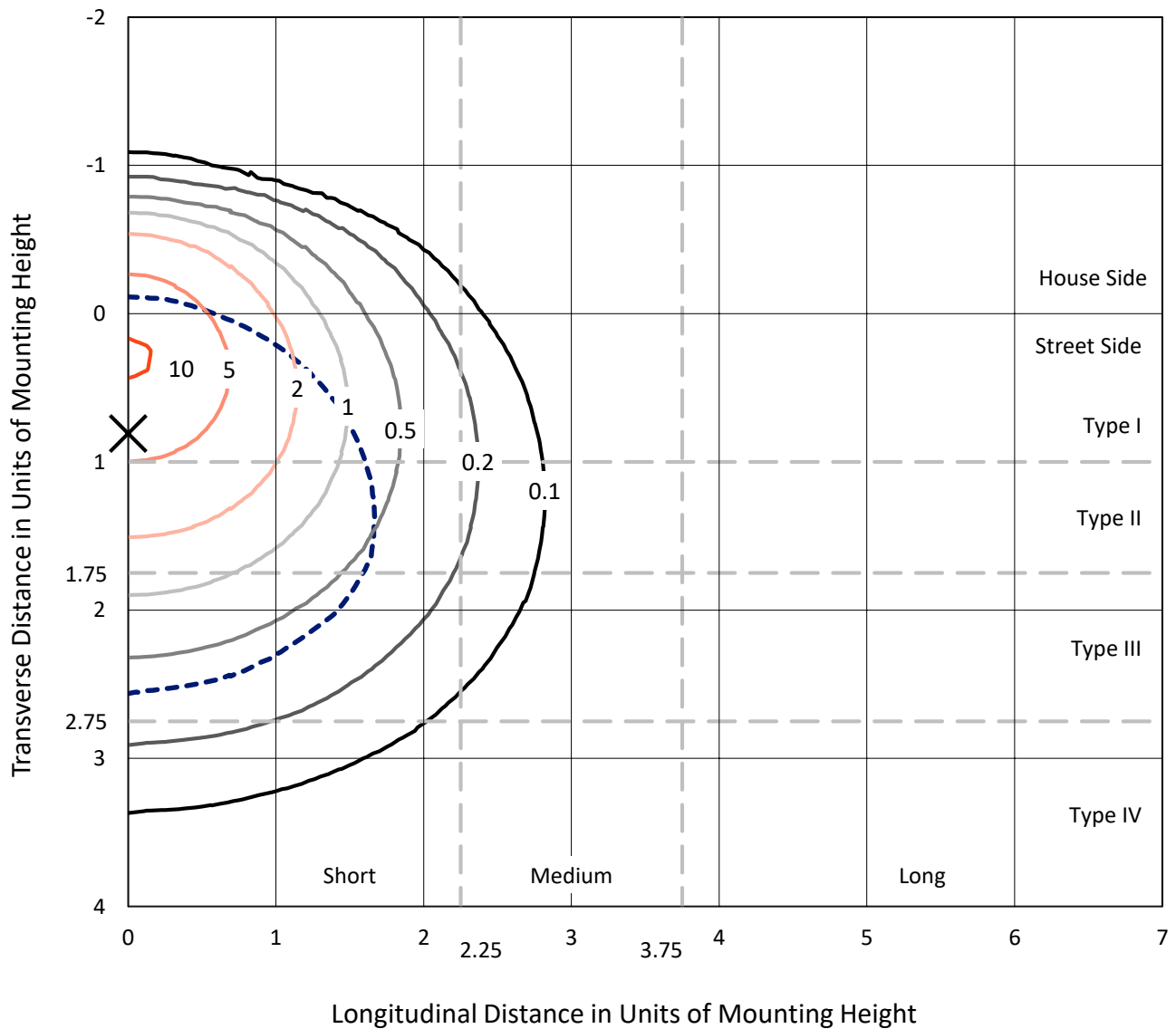
Input Watts (W): 123.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

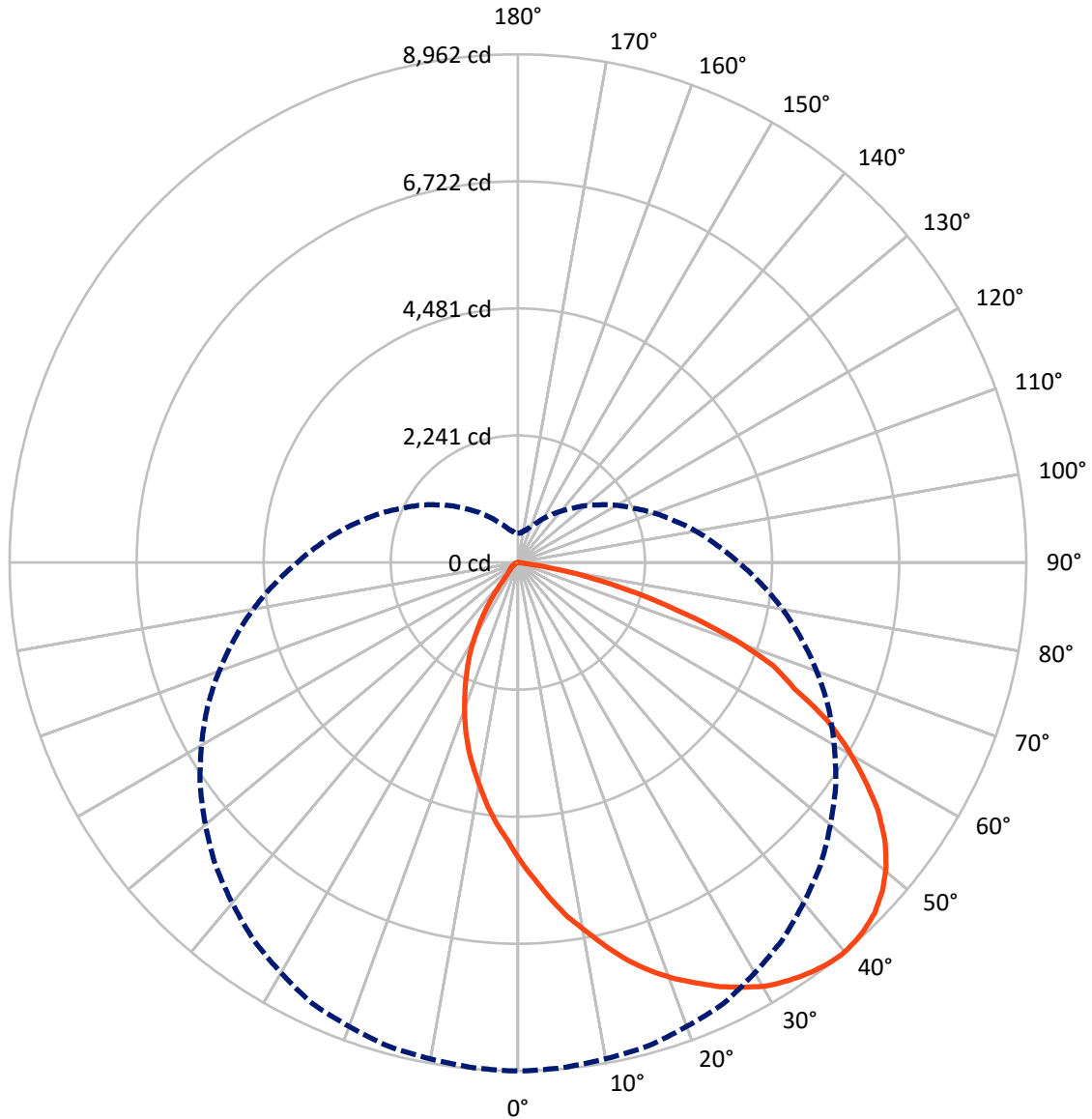
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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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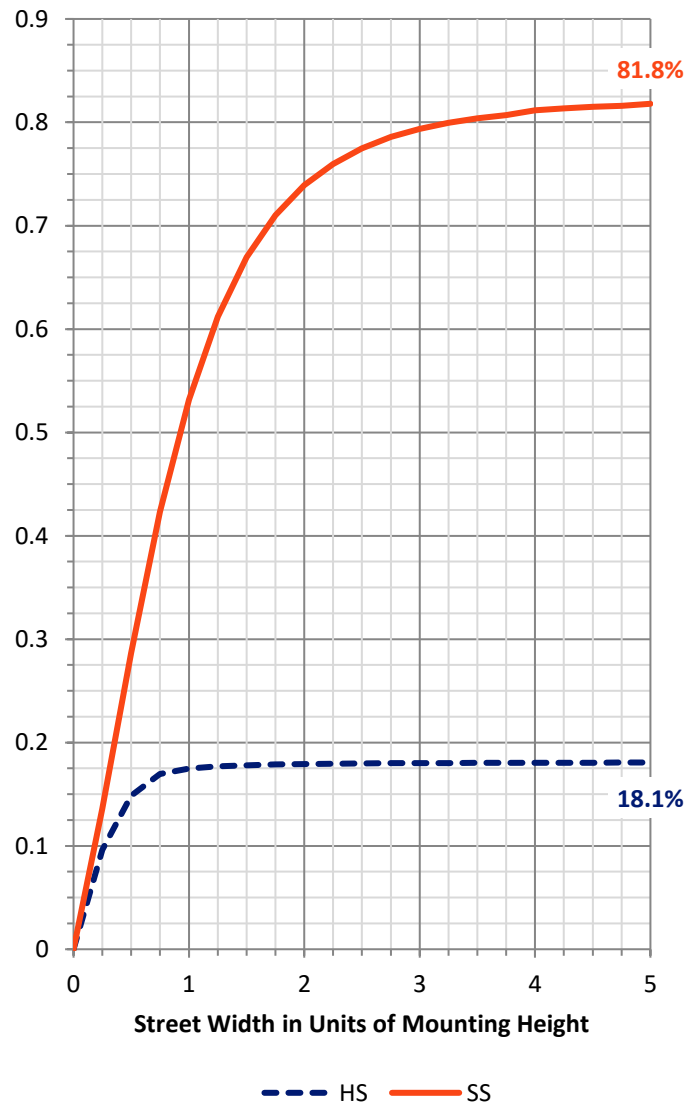
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3016.5	0.0	3016.5
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	13521.5	0.0	13521.5
	% Fixture	81.8	0.0	81.8
Total	Lumens	16538.0	0.0	16538.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.0	3.0
10°-20°	1486.4	9.0
20°-30°	2319.4	14.0
30°-40°	2884.5	17.4
40°-50°	3104.5	18.8
50°-60°	2917.0	17.6
60°-70°	2209.5	13.4
70°-80°	1022.9	6.2
80°-90°	89.7	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°	16538.0	100.0
0°-180°	16538.0	100.0



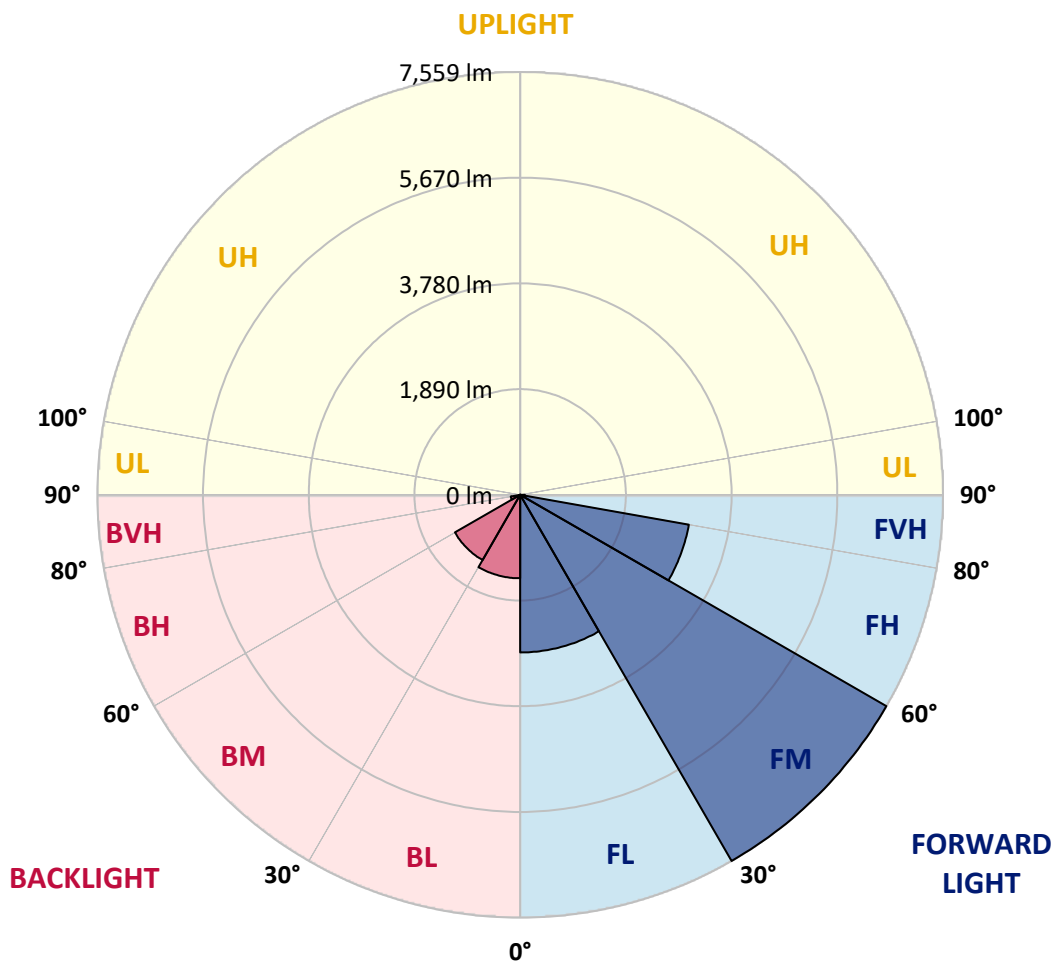
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2817.7	17.0			
FM (30°-60°)	7559.5	45.7			
FH (60°-80°)	3061.6	18.5			G2/5000
FVH (80°-90°)	82.6	0.5			G1/100
BL (0°-30°)	1492.1	9.0	B3/2500		
BM (30°-60°)	1346.5	8.1	B2/2500		
BH (60°-80°)	170.8	1.0	B1/500		G1/500
BVH (80°-90°)	7.1	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°	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1
2.5°	5589.5	5567.4	5578.9	5558.9	5556.8	5533.7	5491.6	5460.0	5420.0	5356.8	5290.5
5°	5951.6	5927.4	5937.9	5903.2	5882.1	5829.5	5744.2	5666.3	5575.8	5453.7	5332.6
7.5°	6306.3	6288.4	6291.6	6248.4	6204.2	6115.8	5990.5	5861.0	5713.7	5537.9	5354.7
10°	6613.7	6605.3	6617.9	6547.4	6485.3	6366.3	6205.3	6022.1	5817.9	5581.0	5345.3
12.5°	6954.7	6930.5	6942.1	6864.2	6782.1	6626.3	6422.1	6188.4	5925.3	5628.4	5330.5
15°	7282.1	7286.3	7280.0	7197.9	7093.7	6901.0	6652.6	6361.0	6036.8	5672.6	5312.6
17.5°	7568.4	7584.2	7580.0	7494.7	7352.6	7140.0	6853.7	6504.2	6115.8	5687.4	5260.0
20°	7825.3	7836.8	7829.5	7737.9	7575.8	7333.7	7009.5	6608.4	6155.8	5661.0	5176.8
22.5°	8051.6	8058.9	8052.6	7951.6	7770.5	7501.0	7141.0	6686.3	6174.7	5626.3	5092.6
25°	8285.3	8283.1	8277.9	8168.4	7970.5	7669.5	7267.4	6760.0	6201.0	5600.0	5013.7
27.5°	8481.0	8497.9	8484.2	8381.0	8165.3	7828.4	7378.9	6825.3	6222.1	5567.4	4925.3
30°	8664.2	8657.9	8647.4	8537.9	8310.5	7945.3	7451.6	6857.9	6213.7	5510.5	4820.0
32.5°	8783.1	8783.1	8758.9	8653.7	8418.9	8025.3	7493.7	6871.6	6184.2	5431.6	4689.5
35°	8880.0	8876.8	8853.7	8748.4	8507.4	8092.6	7528.4	6873.7	6145.3	5344.2	4550.5
37.5°	8946.3	8944.2	8922.1	8812.6	8562.1	8122.1	7544.2	6857.9	6087.4	5238.9	4400.0
39°	8962.1	8962.1	8941.0	8829.5	8580.0	8124.2	7544.2	6840.0	6041.0	5170.5	4304.2
40°	8960.0	8960.0	8938.9	8830.5	8578.9	8114.7	7533.7	6817.9	6005.3	5118.9	4237.9
42.5°	8915.8	8917.9	8896.8	8793.7	8544.2	8069.5	7474.7	6742.1	5895.8	4975.8	4060.0
45°	8816.8	8816.8	8797.9	8701.0	8445.3	7970.5	7372.6	6617.9	5755.8	4804.2	3867.4
47.5°	8648.4	8652.6	8631.6	8542.1	8283.1	7832.6	7236.8	6465.3	5584.2	4614.7	3648.4
50°	8413.7	8420.0	8398.9	8311.6	8075.8	7641.0	7050.5	6273.7	5370.5	4404.2	3412.6
52.5°	8096.8	8098.9	8089.5	8014.7	7802.1	7387.4	6811.6	6038.9	5134.7	4153.7	3161.0
55°	7697.9	7706.3	7693.7	7623.1	7446.3	7071.6	6521.0	5757.9	4856.8	3890.5	2886.3
57.5°	7202.1	7211.6	7203.1	7147.4	7009.5	6688.4	6172.6	5431.6	4577.9	3588.4	2597.9
60°	6682.1	6694.7	6685.3	6633.7	6501.0	6245.3	5774.7	5062.1	4221.0	3265.3	2301.0
62.5°	6109.5	6120.0	6111.6	6098.9	5973.7	5751.6	5346.3	4657.9	3855.8	2931.6	1998.9
65°	5354.7	5369.5	5340.0	5394.7	5372.6	5152.6	4837.9	4224.2	3441.0	2549.5	1703.2
67.5°	4855.8	4860.0	4815.8	4766.3	4611.6	4571.6	4300.0	3756.8	3014.7	2188.4	1406.3
70°	4040.0	3961.0	3971.6	4037.9	4095.8	3872.6	3721.0	3247.4	2567.4	1810.5	1122.1
72.5°	3066.3	3000.0	3016.8	3055.8	3155.8	3257.9	3027.4	2733.7	2112.6	1461.1	840.0
75°	2158.9	2091.6	2111.6	2144.2	2221.0	2314.7	2373.7	2122.1	1630.5	1103.2	611.6
77.5°	1346.3	1326.3	1303.2	1324.2	1383.2	1466.3	1537.9	1525.3	1167.4	770.5	400.0
80°	640.0	622.1	610.5	627.4	665.3	764.2	826.3	826.3	717.9	471.6	227.4
82.5°	117.9	114.7	113.7	128.4	145.3	228.4	301.1	335.8	325.3	217.9	93.7
85°	54.7	51.6	52.6	53.7	54.7	61.1	64.2	76.8	90.5	60.0	30.5
87.5°	18.9	20.0	20.0	22.1	21.1	23.2	24.2	26.3	24.2	18.9	15.8
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°	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1
2.5°	5256.8	5227.4	5171.6	5112.6	5060.0	5002.1	4965.3	4945.3	4921.0	4925.3	4911.6
5°	5272.6	5211.6	5103.2	4994.7	4898.9	4802.1	4734.7	4688.4	4649.5	4646.3	4633.7
7.5°	5265.3	5173.7	5012.6	4856.8	4717.9	4580.0	4482.1	4415.8	4357.9	4347.4	4335.8
10°	5228.4	5112.6	4901.0	4692.6	4516.8	4342.1	4216.8	4127.4	4053.7	4035.8	4018.9
12.5°	5185.3	5046.3	4783.2	4532.6	4323.2	4129.5	3969.5	3855.8	3771.6	3730.5	3726.3
15°	5138.9	4971.6	4656.8	4372.6	4120.0	3908.4	3727.4	3594.7	3494.7	3447.4	3440.0
17.5°	5060.0	4864.2	4506.3	4181.0	3896.8	3663.2	3461.0	3312.6	3198.9	3146.3	3134.7
20°	4947.4	4730.5	4329.5	3965.3	3651.6	3391.6	3175.8	3015.8	2891.6	2827.4	2812.6
22.5°	4834.7	4594.7	4153.7	3753.7	3409.5	3124.2	2887.4	2715.8	2582.1	2511.6	2497.9
25°	4731.6	4473.7	3984.2	3551.6	3175.8	2863.2	2604.2	2405.3	2278.9	2202.1	2186.3
27.5°	4617.9	4336.8	3807.4	3342.1	2938.9	2600.0	2320.0	2107.4	1971.6	1888.4	1902.1
30°	4482.1	4177.9	3612.6	3104.2	2684.2	2326.3	2028.4	1806.3	1665.3	1574.7	1588.4
32.5°	4327.4	4004.2	3404.2	2870.5	2434.7	2047.4	1747.4	1510.5	1365.3	1282.1	1280.0
35°	4166.3	3823.2	3184.2	2637.9	2178.9	1771.6	1457.9	1224.2	1051.6	978.9	973.7
37.5°	3994.7	3633.7	2983.2	2402.1	1927.4	1506.3	1187.4	931.6	771.6	683.2	676.8
39°	3889.5	3521.0	2851.6	2256.8	1774.7	1348.4	1024.2	765.3	602.1	521.1	516.8
40°	3814.7	3443.2	2761.0	2161.0	1673.7	1246.3	914.7	654.7	501.1	425.3	420.0
42.5°	3629.5	3236.8	2534.7	1918.9	1422.1	995.8	653.7	416.8	320.0	292.6	290.5
45°	3410.5	3010.5	2288.4	1684.2	1176.8	746.3	423.2	286.3	248.4	234.7	232.6
47.5°	3184.2	2775.8	2043.2	1448.4	945.3	516.8	281.1	228.4	205.3	196.8	195.8
50°	2942.1	2530.5	1821.1	1217.9	718.9	327.4	221.1	188.4	174.7	169.5	168.4
52.5°	2700.0	2278.9	1575.8	984.2	504.2	232.6	183.2	161.1	152.6	149.5	148.4
55°	2418.9	2025.3	1336.8	777.9	323.2	187.4	153.7	140.0	134.7	129.5	129.5
57.5°	2161.0	1768.4	1114.7	574.7	214.7	153.7	131.6	122.1	115.8	111.6	110.5
60°	1885.3	1512.6	896.8	390.5	167.4	128.4	114.7	107.4	101.1	96.8	95.8
62.5°	1608.4	1258.9	693.7	234.7	133.7	108.4	101.1	93.7	88.4	84.2	84.2
65°	1338.9	1020.0	506.3	154.7	108.4	92.6	86.3	81.1	76.8	73.7	73.7
67.5°	1076.8	786.3	343.2	117.9	87.4	78.9	74.7	70.5	66.3	64.2	64.2
70°	830.5	585.3	206.3	88.4	71.6	66.3	64.2	60.0	57.9	54.7	54.7
72.5°	607.4	406.3	112.6	68.4	57.9	54.7	53.7	50.5	48.4	46.3	46.3
75°	426.3	257.9	70.5	52.6	45.3	44.2	44.2	42.1	40.0	37.9	37.9
77.5°	264.2	143.2	48.4	37.9	34.7	34.7	34.7	32.6	30.5	29.5	28.4
80°	141.1	68.4	32.6	27.4	25.3	25.3	25.3	24.2	22.1	21.1	20.0
82.5°	58.9	31.6	21.1	17.9	15.8	16.8	16.8	14.7	12.6	10.5	10.5
85°	22.1	17.9	14.7	12.6	11.6	10.5	9.5	7.4	5.3	4.2	4.2
87.5°	13.7	12.6	11.6	10.5	9.5	7.4	6.3	4.2	2.1	1.1	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)