

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: P#

Luminaire Tested: **AXCL8A-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
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: AXCL8A-W
Description: AXCENT CUTOFF WALLPACK
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8450.3 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 0.29' x L: 0.75' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

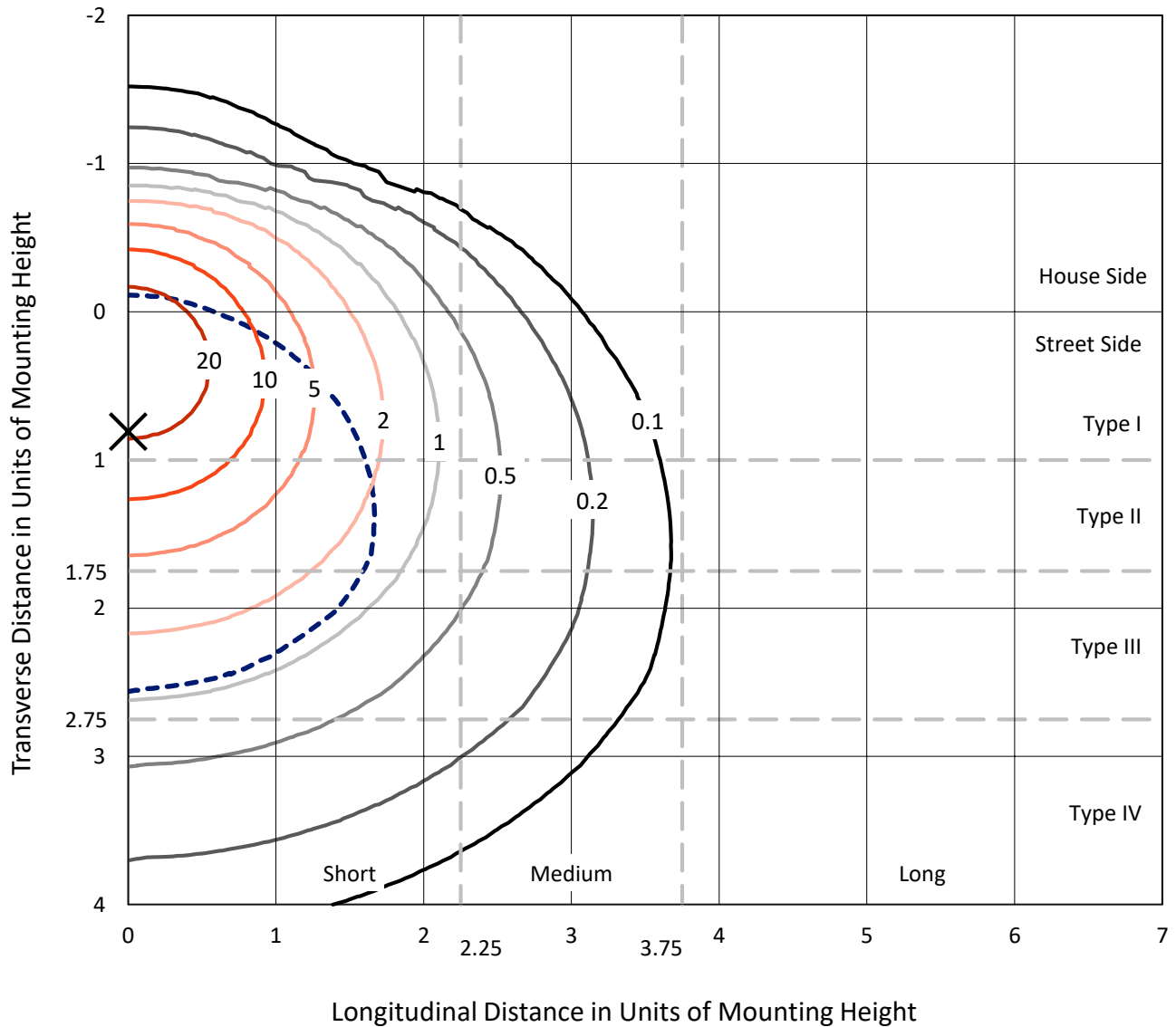
Input Watts (W): 72
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

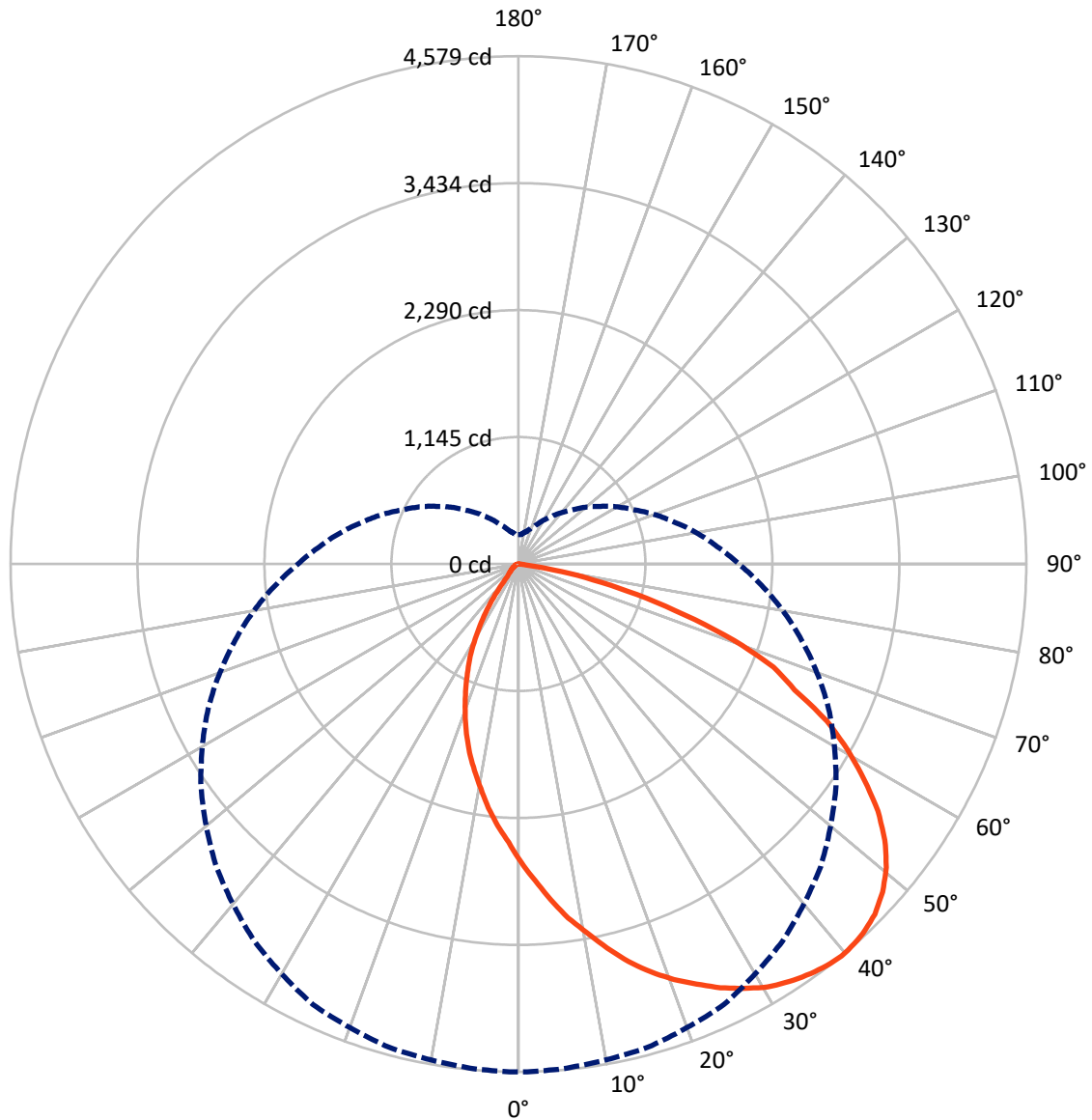
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 33.4 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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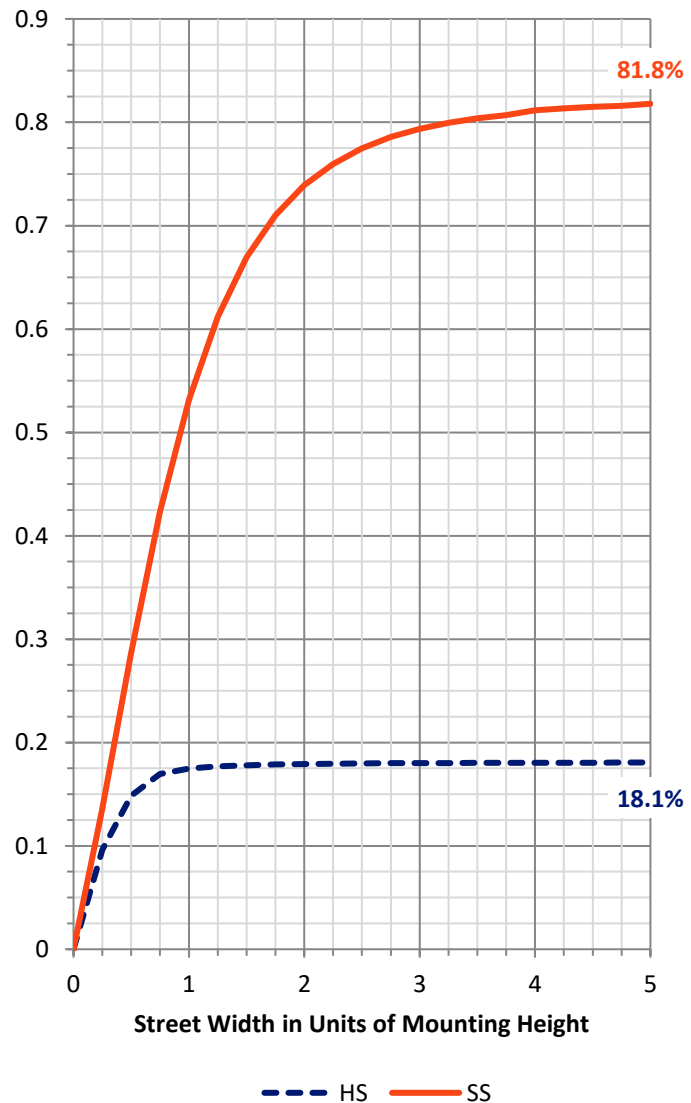
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1541.3	0.0	1541.3
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	6909.0	0.0	6909.0
	% Fixture	81.8	0.0	81.8
Total	Lumens	8450.3	0.0	8450.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.5	3.0
10°-20°	759.5	9.0
20°-30°	1185.1	14.0
30°-40°	1473.9	17.4
40°-50°	1586.3	18.8
50°-60°	1490.5	17.6
60°-70°	1129.0	13.4
70°-80°	522.7	6.2
80°-90°	45.9	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°	8450.3	100.0
0°-180°	8450.3	100.0

Coefficient of Utilization

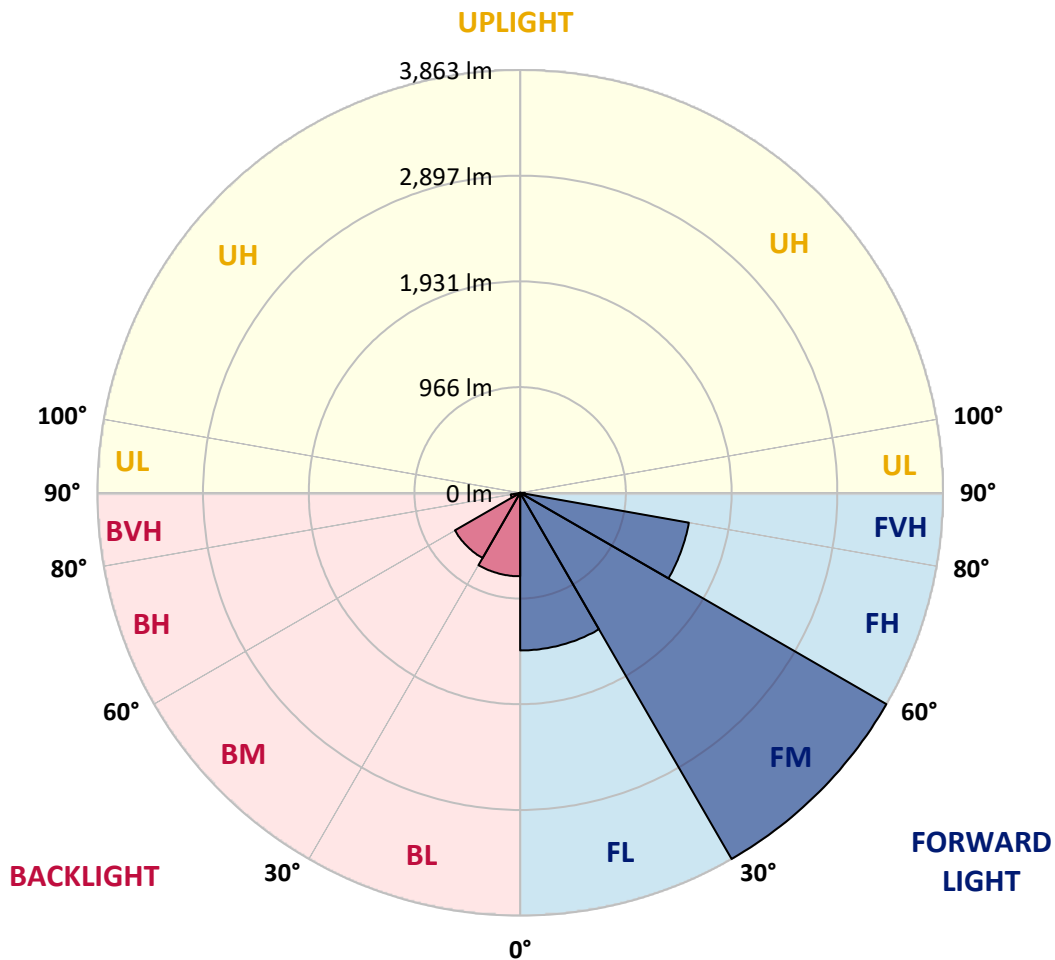


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1439.8	17.0			
FM	(30°-60°)	3862.6	45.7			
FH	(60°-80°)	1564.4	18.5			G1/1800
FVH	(80°-90°)	42.2	0.5			G1/100
BL	(0°-30°)	762.4	9.0	B2/1000		
BM	(30°-60°)	688.0	8.1	B1/1000		
BH	(60°-80°)	87.3	1.0	B0/110		G0/110
BVH	(80°-90°)	3.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2688.7	2688.7	2688.7	2688.7	2688.7	2688.7	2688.7	2688.7	2688.7	2688.7	2688.7
2.5°	2856.0	2844.7	2850.6	2840.4	2839.3	2827.5	2806.0	2789.9	2769.4	2737.1	2703.3
5°	3041.0	3028.7	3034.0	3016.3	3005.5	2978.6	2935.1	2895.3	2849.0	2786.6	2724.8
7.5°	3222.3	3213.2	3214.8	3192.7	3170.1	3124.9	3060.9	2994.8	2919.5	2829.7	2736.1
10°	3379.3	3375.0	3381.5	3345.5	3313.7	3253.0	3170.7	3077.1	2972.7	2851.7	2731.2
12.5°	3553.6	3541.2	3547.2	3507.4	3465.4	3385.8	3281.5	3162.1	3027.6	2875.9	2723.7
15°	3720.9	3723.0	3719.8	3677.9	3624.6	3526.2	3399.2	3250.3	3084.6	2898.5	2714.6
17.5°	3867.2	3875.3	3873.1	3829.5	3756.9	3648.3	3502.0	3323.4	3124.9	2906.0	2687.7
20°	3998.4	4004.3	4000.6	3953.8	3870.9	3747.2	3581.6	3376.7	3145.4	2892.6	2645.2
22.5°	4114.1	4117.8	4114.6	4063.0	3970.5	3832.8	3648.8	3416.5	3155.1	2874.8	2602.1
25°	4233.5	4232.4	4229.7	4173.8	4072.6	3918.8	3713.4	3454.1	3168.5	2861.4	2561.8
27.5°	4333.5	4342.1	4335.1	4282.4	4172.1	4000.0	3770.4	3487.5	3179.3	2844.7	2516.6
30°	4427.1	4423.9	4418.5	4362.5	4246.4	4059.7	3807.5	3504.1	3175.0	2815.7	2462.8
32.5°	4487.9	4487.9	4475.5	4421.7	4301.8	4100.6	3829.0	3511.1	3159.9	2775.3	2396.1
35°	4537.4	4535.7	4523.9	4470.1	4347.0	4135.0	3846.7	3512.2	3140.0	2730.7	2325.2
37.5°	4571.2	4570.2	4558.9	4502.9	4374.9	4150.1	3854.8	3504.1	3110.4	2676.9	2248.2
39°	4579.3	4579.3	4568.5	4511.5	4384.1	4151.2	3854.8	3495.0	3086.8	2641.9	2199.3
40°	4578.2	4578.2	4567.5	4512.1	4383.5	4146.3	3849.4	3483.7	3068.5	2615.6	2165.4
42.5°	4555.6	4556.7	4546.0	4493.2	4365.8	4123.2	3819.3	3445.0	3012.5	2542.4	2074.5
45°	4505.1	4505.1	4495.4	4445.9	4315.2	4072.6	3767.1	3381.5	2941.0	2454.8	1976.1
47.5°	4419.0	4421.2	4410.4	4364.7	4232.4	4002.2	3697.8	3303.5	2853.3	2358.0	1864.2
50°	4299.1	4302.3	4291.6	4246.9	4126.4	3904.3	3602.6	3205.6	2744.1	2250.4	1743.7
52.5°	4137.2	4138.3	4133.4	4095.2	3986.6	3774.7	3480.5	3085.7	2623.7	2122.4	1615.2
55°	3933.3	3937.6	3931.2	3895.2	3804.8	3613.3	3332.0	2942.1	2481.7	1987.9	1474.8
57.5°	3680.0	3684.8	3680.5	3652.0	3581.6	3417.5	3154.0	2775.3	2339.1	1833.6	1327.4
60°	3414.3	3420.8	3415.9	3389.6	3321.8	3191.1	2950.7	2586.5	2156.8	1668.4	1175.8
62.5°	3121.7	3127.1	3122.8	3116.3	3052.3	2938.8	2731.8	2380.0	1970.2	1497.9	1021.4
65°	2736.1	2743.6	2728.5	2756.5	2745.2	2632.8	2472.0	2158.4	1758.3	1302.7	870.3
67.5°	2481.1	2483.3	2460.7	2435.4	2356.3	2335.9	2197.1	1919.6	1540.4	1118.2	718.6
70°	2064.3	2024.0	2029.3	2063.2	2092.8	1978.8	1901.3	1659.3	1311.8	925.1	573.4
72.5°	1566.8	1532.9	1541.5	1561.4	1612.5	1664.7	1546.9	1396.8	1079.5	746.5	429.2
75°	1103.1	1068.7	1078.9	1095.6	1134.9	1182.7	1212.9	1084.3	833.1	563.7	312.5
77.5°	687.9	677.7	665.9	676.6	706.7	749.2	785.8	779.4	596.5	393.7	204.4
80°	327.0	317.9	312.0	320.6	339.9	390.5	422.2	422.2	366.8	241.0	116.2
82.5°	60.2	58.6	58.1	65.6	74.2	116.7	153.8	171.6	166.2	111.3	47.9
85°	28.0	26.4	26.9	27.4	28.0	31.2	32.8	39.3	46.3	30.7	15.6
87.5°	9.7	10.2	10.2	11.3	10.8	11.8	12.4	13.4	12.4	9.7	8.1
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°	2688.7	2688.7	2688.7	2688.7	2688.7	2688.7	2688.7	2688.7	2688.7	2688.7	2688.7
2.5°	2686.1	2671.0	2642.5	2612.4	2585.5	2555.9	2537.1	2526.8	2514.5	2516.6	2509.6
5°	2694.1	2662.9	2607.5	2552.1	2503.2	2453.7	2419.3	2395.6	2375.7	2374.1	2367.6
7.5°	2690.4	2643.6	2561.3	2481.7	2410.7	2340.2	2290.2	2256.3	2226.7	2221.3	2215.4
10°	2671.5	2612.4	2504.3	2397.8	2307.9	2218.7	2154.7	2108.9	2071.3	2062.1	2053.5
12.5°	2649.5	2578.5	2444.0	2316.0	2209.0	2110.0	2028.3	1970.2	1927.1	1906.2	1904.0
15°	2625.8	2540.3	2379.5	2234.3	2105.2	1997.1	1904.5	1836.8	1785.7	1761.5	1757.7
17.5°	2585.5	2485.4	2302.6	2136.4	1991.1	1871.7	1768.5	1692.6	1634.5	1607.7	1601.7
20°	2527.9	2417.1	2212.2	2026.1	1865.8	1733.0	1622.7	1541.0	1477.5	1444.7	1437.2
22.5°	2470.4	2347.7	2122.4	1918.0	1742.1	1596.4	1475.3	1387.7	1319.4	1283.3	1276.3
25°	2417.7	2285.9	2035.8	1814.7	1622.7	1463.0	1330.7	1229.0	1164.5	1125.2	1117.1
27.5°	2359.6	2216.0	1945.4	1707.7	1501.7	1328.5	1185.4	1076.8	1007.4	964.9	971.9
30°	2290.2	2134.7	1845.9	1586.1	1371.5	1188.7	1036.4	923.0	850.9	804.6	811.6
32.5°	2211.1	2046.0	1739.4	1466.7	1244.1	1046.1	892.8	771.8	697.6	655.1	654.0
35°	2128.8	1953.5	1627.0	1347.9	1113.4	905.2	744.9	625.5	537.3	500.2	497.5
37.5°	2041.2	1856.7	1524.3	1227.4	984.8	769.7	606.7	476.0	394.2	349.1	345.8
39°	1987.4	1799.1	1457.1	1153.2	906.8	689.0	523.3	391.0	307.7	266.2	264.1
40°	1949.2	1759.3	1410.8	1104.2	855.2	636.8	467.4	334.5	256.0	217.3	214.6
42.5°	1854.5	1653.9	1295.2	980.5	726.6	508.8	334.0	213.0	163.5	149.5	148.4
45°	1742.7	1538.3	1169.3	860.6	601.3	381.3	216.2	146.3	126.9	119.9	118.9
47.5°	1627.0	1418.3	1044.0	740.1	483.0	264.1	143.6	116.7	104.9	100.6	100.0
50°	1503.3	1293.0	930.5	622.3	367.4	167.3	112.9	96.3	89.3	86.6	86.1
52.5°	1379.6	1164.5	805.2	502.9	257.6	118.9	93.6	82.3	78.0	76.4	75.8
55°	1236.0	1034.8	683.1	397.5	165.1	95.7	78.5	71.5	68.8	66.2	66.2
57.5°	1104.2	903.6	569.6	293.7	109.7	78.5	67.2	62.4	59.2	57.0	56.5
60°	963.3	772.9	458.3	199.5	85.5	65.6	58.6	54.9	51.6	49.5	48.9
62.5°	821.8	643.3	354.4	119.9	68.3	55.4	51.6	47.9	45.2	43.0	43.0
65°	684.2	521.2	258.7	79.1	55.4	47.3	44.1	41.4	39.3	37.6	37.6
67.5°	550.2	401.8	175.3	60.2	44.6	40.3	38.2	36.0	33.9	32.8	32.8
70°	424.4	299.0	105.4	45.2	36.6	33.9	32.8	30.7	29.6	28.0	28.0
72.5°	310.3	207.6	57.6	35.0	29.6	28.0	27.4	25.8	24.7	23.7	23.7
75°	217.8	131.8	36.0	26.9	23.1	22.6	22.6	21.5	20.4	19.4	19.4
77.5°	135.0	73.1	24.7	19.4	17.7	17.7	17.7	16.7	15.6	15.1	14.5
80°	72.1	35.0	16.7	14.0	12.9	12.9	12.9	12.4	11.3	10.8	10.2
82.5°	30.1	16.1	10.8	9.1	8.1	8.6	8.6	7.5	6.5	5.4	5.4
85°	11.3	9.1	7.5	6.5	5.9	5.4	4.8	3.8	2.7	2.2	2.2
87.5°	7.0	6.5	5.9	5.4	4.8	3.8	3.2	2.2	1.1	0.5	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)