

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**

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
Description: AXCENT CUTOFF WALLPACK
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9695.5 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.29' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

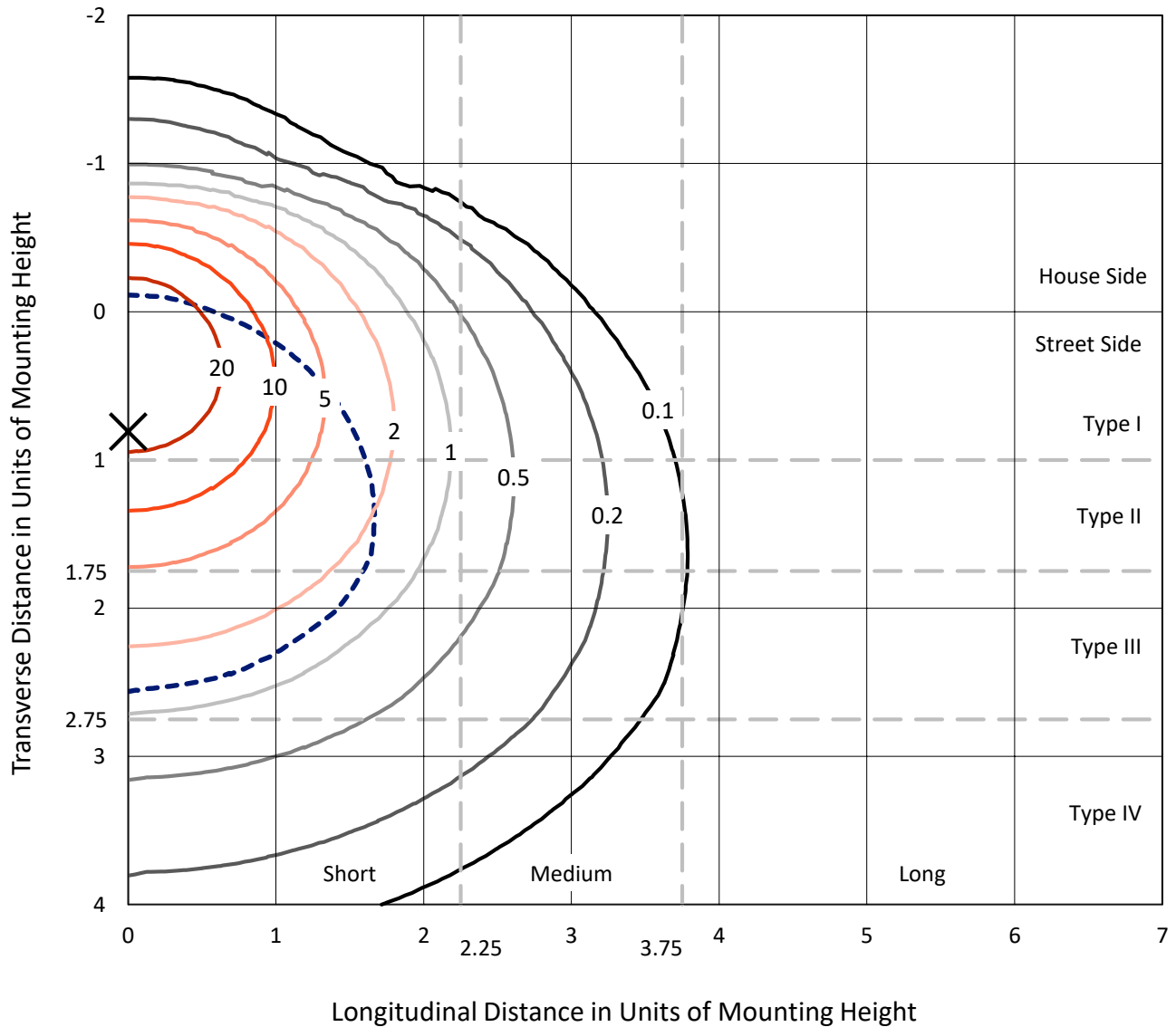
Input Watts (W): 72
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

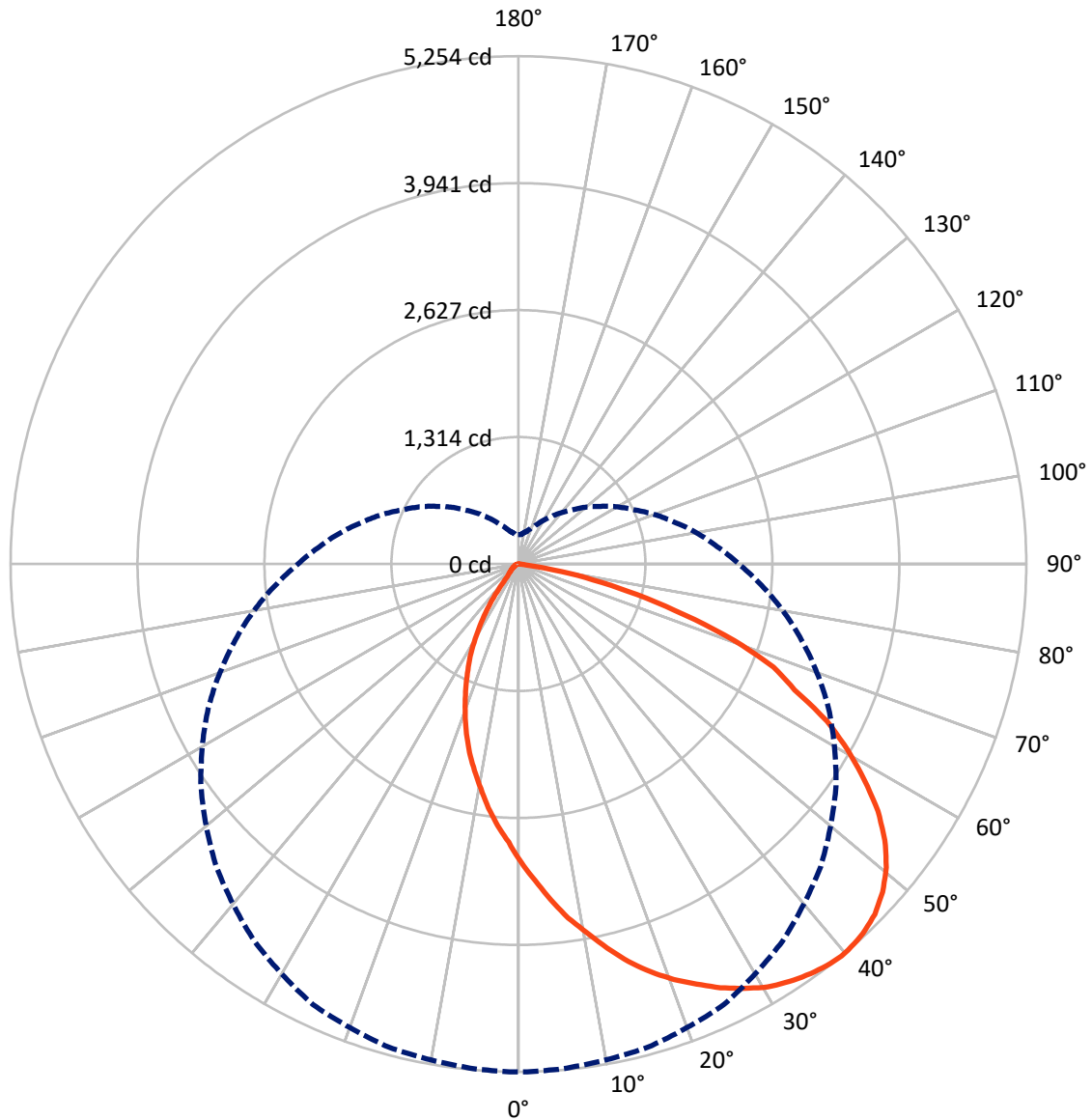
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 38.3 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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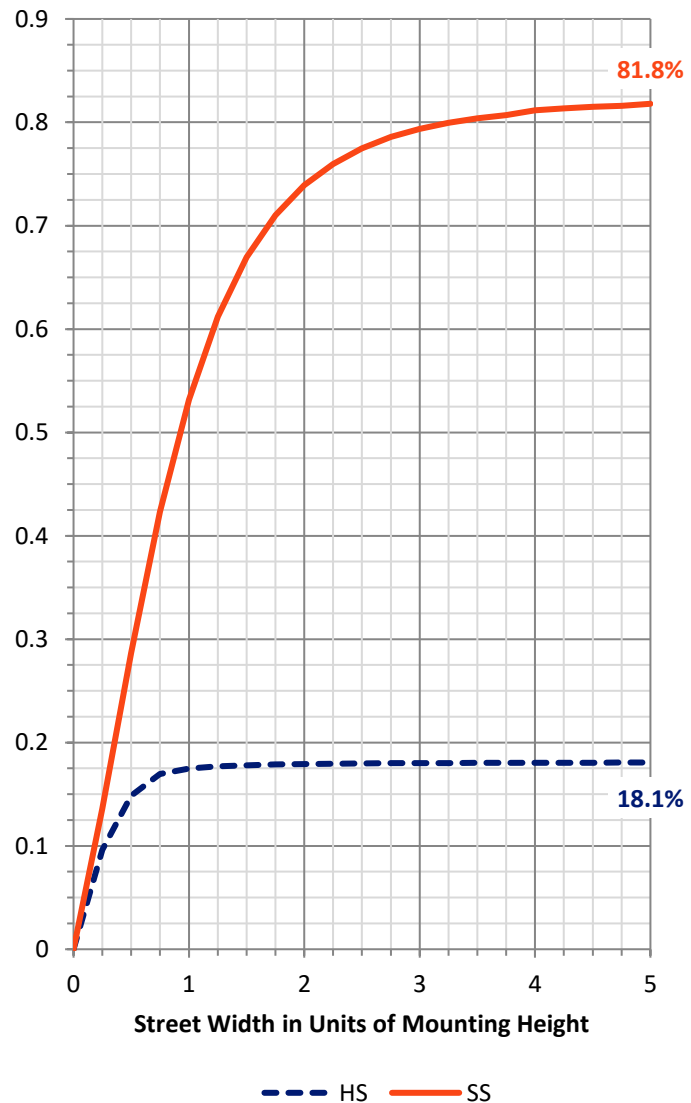
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1768.4	0.0	1768.4
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	7927.0	0.0	7927.0
	% Fixture	81.8	0.0	81.8
Total	Lumens	9695.5	0.0	9695.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.5	3.0
10°-20°	871.4	9.0
20°-30°	1359.8	14.0
30°-40°	1691.1	17.4
40°-50°	1820.0	18.8
50°-60°	1710.1	17.6
60°-70°	1295.4	13.4
70°-80°	599.7	6.2
80°-90°	52.6	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°	9695.5	100.0
0°-180°	9695.5	100.0



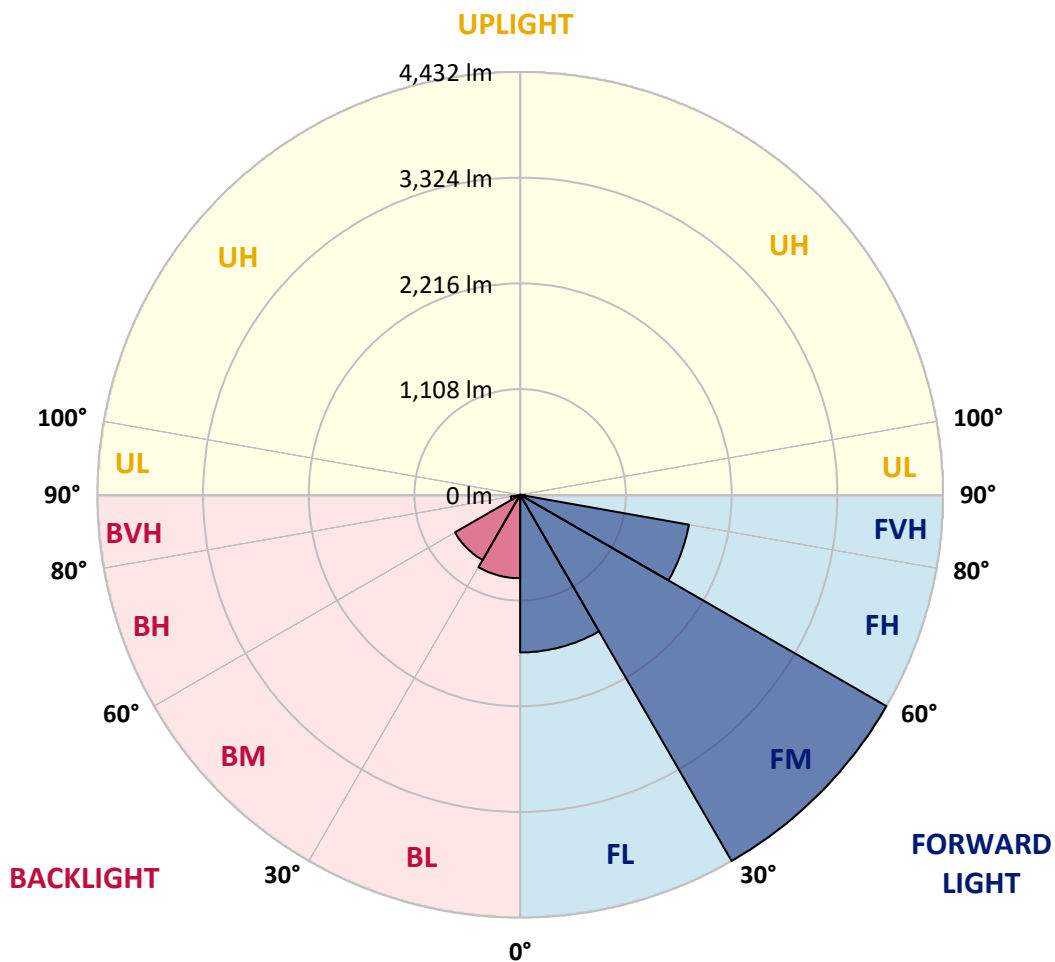
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1651.9	17.0			
FM	(30°-60°)	4431.8	45.7			
FH	(60°-80°)	1794.9	18.5			G1/1800
FVH	(80°-90°)	48.4	0.5			G1/100
BL	(0°-30°)	874.7	9.0	B2/1000		
BM	(30°-60°)	789.4	8.1	B1/1000		
BH	(60°-80°)	100.1	1.0	B0/110		G0/110
BVH	(80°-90°)	4.2	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°	3084.9	3084.9	3084.9	3084.9	3084.9	3084.9	3084.9	3084.9	3084.9	3084.9	3084.9
2.5°	3276.9	3263.9	3270.7	3259.0	3257.7	3244.2	3219.5	3201.0	3177.5	3140.5	3101.6
5°	3489.1	3475.0	3481.1	3460.8	3448.4	3417.6	3367.6	3321.9	3268.8	3197.3	3126.3
7.5°	3697.1	3686.6	3688.5	3663.2	3637.3	3585.4	3512.0	3436.1	3349.7	3246.6	3139.2
10°	3877.3	3872.4	3879.8	3838.4	3802.0	3732.3	3637.9	3530.5	3410.8	3271.9	3133.7
12.5°	4077.3	4063.1	4069.8	4024.2	3976.0	3884.7	3765.0	3628.0	3473.7	3299.7	3125.0
15°	4269.2	4271.6	4267.9	4219.8	4158.7	4045.8	3900.1	3729.2	3539.1	3325.6	3114.6
17.5°	4437.0	4446.3	4443.8	4393.8	4310.5	4185.9	4018.0	3813.1	3585.4	3334.2	3083.7
20°	4587.6	4594.4	4590.1	4536.4	4441.3	4299.4	4109.3	3874.2	3608.9	3318.8	3035.0
22.5°	4720.3	4724.6	4720.9	4661.7	4555.5	4397.5	4186.5	3919.9	3620.0	3298.5	2985.6
25°	4857.3	4856.0	4853.0	4788.8	4672.8	4496.3	4260.5	3963.1	3635.4	3283.0	2939.3
27.5°	4972.1	4981.9	4973.9	4913.4	4786.9	4589.5	4325.9	4001.3	3647.7	3263.9	2887.5
30°	5079.4	5075.7	5069.6	5005.4	4872.1	4658.0	4368.5	4020.5	3642.8	3230.6	2825.8
32.5°	5149.2	5149.2	5135.0	5073.3	4935.7	4704.9	4393.2	4028.5	3625.5	3184.3	2749.2
35°	5205.9	5204.1	5190.5	5128.8	4987.5	4744.3	4413.6	4029.7	3602.7	3133.1	2667.8
37.5°	5244.8	5243.6	5230.6	5166.5	5019.6	4761.6	4422.8	4020.5	3568.8	3071.4	2579.5
39°	5254.1	5254.1	5241.7	5176.3	5030.1	4762.9	4422.8	4010.0	3541.6	3031.2	2523.4
40°	5252.8	5252.8	5240.5	5176.9	5029.5	4757.3	4416.7	3997.0	3520.6	3001.0	2484.5
42.5°	5226.9	5228.2	5215.8	5155.3	5009.1	4730.8	4382.1	3952.6	3456.4	2917.1	2380.2
45°	5168.9	5168.9	5157.8	5101.0	4951.1	4672.8	4322.2	3879.8	3374.4	2816.5	2267.3
47.5°	5070.2	5072.7	5060.3	5007.9	4856.0	4591.9	4242.6	3790.3	3273.8	2705.4	2138.9
50°	4932.6	4936.3	4923.9	4872.7	4734.5	4479.6	4133.4	3678.0	3148.5	2582.0	2000.7
52.5°	4746.8	4748.1	4742.5	4698.7	4574.0	4330.9	3993.3	3540.4	3010.3	2435.1	1853.2
55°	4512.9	4517.9	4510.5	4469.1	4365.4	4145.8	3823.0	3375.6	2847.3	2280.8	1692.1
57.5°	4222.3	4227.8	4222.9	4190.2	4109.3	3921.1	3618.7	3184.3	2683.8	2103.7	1523.0
60°	3917.4	3924.8	3919.3	3889.0	3811.3	3661.3	3385.5	2967.7	2474.6	1914.3	1349.0
62.5°	3581.7	3587.9	3582.9	3575.5	3502.1	3371.9	3134.3	2730.7	2260.5	1718.7	1171.9
65°	3139.2	3147.9	3130.6	3162.7	3149.7	3020.8	2836.2	2476.5	2017.3	1494.6	998.5
67.5°	2846.7	2849.2	2823.3	2794.3	2703.6	2680.1	2520.9	2202.5	1767.4	1283.0	824.5
70°	2368.5	2322.2	2328.4	2367.2	2401.2	2270.4	2181.5	1903.8	1505.1	1061.4	657.8
72.5°	1797.6	1758.8	1768.6	1791.5	1850.1	1910.0	1774.8	1602.6	1238.5	856.5	492.5
75°	1265.7	1226.2	1237.9	1257.1	1302.1	1357.0	1391.6	1244.1	955.9	646.7	358.5
77.5°	789.3	777.6	764.0	776.3	810.9	859.6	901.6	894.2	684.4	451.7	234.5
80°	375.2	364.7	357.9	367.8	390.0	448.0	484.4	484.4	420.9	276.5	133.3
82.5°	69.1	67.3	66.6	75.3	85.2	133.9	176.5	196.9	190.7	127.7	54.9
85°	32.1	30.2	30.9	31.5	32.1	35.8	37.6	45.0	53.1	35.2	17.9
87.5°	11.1	11.7	11.7	13.0	12.3	13.6	14.2	15.4	14.2	11.1	9.3
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°	3084.9	3084.9	3084.9	3084.9	3084.9	3084.9	3084.9	3084.9	3084.9	3084.9	3084.9
2.5°	3081.9	3064.6	3031.9	2997.3	2966.5	2932.5	2910.9	2899.2	2885.0	2887.5	2879.4
5°	3091.1	3055.3	2991.8	2928.2	2872.0	2815.3	2775.8	2748.6	2725.8	2723.9	2716.5
7.5°	3086.8	3033.1	2938.7	2847.3	2765.9	2685.0	2627.7	2588.8	2554.8	2548.7	2541.9
10°	3065.2	2997.3	2873.3	2751.1	2648.0	2545.6	2472.1	2419.7	2376.5	2366.0	2356.1
12.5°	3039.9	2958.4	2804.2	2657.3	2534.5	2420.9	2327.1	2260.5	2211.1	2187.0	2184.6
15°	3012.7	2914.6	2730.1	2563.5	2415.4	2291.3	2185.2	2107.4	2048.8	2021.0	2016.7
17.5°	2966.5	2851.7	2641.9	2451.2	2284.5	2147.5	2029.1	1942.0	1875.4	1844.5	1837.8
20°	2900.4	2773.3	2538.2	2324.7	2140.8	1988.3	1861.8	1768.0	1695.2	1657.6	1648.9
22.5°	2834.4	2693.7	2435.1	2200.6	1998.8	1831.6	1692.7	1592.1	1513.8	1472.4	1464.4
25°	2773.9	2622.7	2335.8	2082.1	1861.8	1678.5	1526.7	1410.1	1336.0	1291.0	1281.7
27.5°	2707.3	2542.5	2232.1	1959.3	1723.0	1524.3	1360.1	1235.5	1155.8	1107.1	1115.1
30°	2627.7	2449.3	2117.9	1819.9	1573.6	1363.8	1189.2	1059.0	976.3	923.2	931.2
32.5°	2536.9	2347.5	1995.7	1682.9	1427.4	1200.3	1024.4	885.6	800.4	751.6	750.4
35°	2442.5	2241.3	1866.8	1546.5	1277.4	1038.6	854.7	717.7	616.5	573.9	570.8
37.5°	2341.9	2130.3	1748.9	1408.2	1129.9	883.1	696.1	546.1	452.3	400.5	396.8
39°	2280.2	2064.2	1671.8	1323.1	1040.4	790.5	600.4	448.6	353.0	305.5	303.0
40°	2236.4	2018.6	1618.7	1266.9	981.2	730.7	536.3	383.8	293.7	249.3	246.2
42.5°	2127.8	1897.6	1486.0	1125.0	833.7	583.8	383.2	244.4	187.6	171.6	170.3
45°	1999.4	1764.9	1341.6	987.4	689.9	437.5	248.1	167.9	145.6	137.6	136.4
47.5°	1866.8	1627.3	1197.8	849.1	554.2	303.0	164.8	133.9	120.3	115.4	114.8
50°	1724.8	1483.5	1067.6	714.0	421.5	191.9	129.6	110.5	102.4	99.4	98.7
52.5°	1582.9	1336.0	923.8	577.0	295.6	136.4	107.4	94.4	89.5	87.6	87.0
55°	1418.1	1187.3	783.7	456.0	189.5	109.8	90.1	82.1	79.0	75.9	75.9
57.5°	1266.9	1036.7	653.5	336.9	125.9	90.1	77.1	71.6	67.9	65.4	64.8
60°	1105.2	886.8	525.8	228.9	98.1	75.3	67.3	62.9	59.2	56.8	56.2
62.5°	942.9	738.1	406.7	137.6	78.4	63.6	59.2	54.9	51.8	49.4	49.4
65°	785.0	598.0	296.8	90.7	63.6	54.3	50.6	47.5	45.0	43.2	43.2
67.5°	631.3	461.0	201.2	69.1	51.2	46.3	43.8	41.3	38.9	37.6	37.6
70°	486.9	343.1	121.0	51.8	42.0	38.9	37.6	35.2	33.9	32.1	32.1
72.5°	356.1	238.2	66.0	40.1	33.9	32.1	31.5	29.6	28.4	27.2	27.2
75°	249.9	151.2	41.3	30.9	26.5	25.9	25.9	24.7	23.5	22.2	22.2
77.5°	154.9	83.9	28.4	22.2	20.4	20.4	20.4	19.1	17.9	17.3	16.7
80°	82.7	40.1	19.1	16.0	14.8	14.8	14.8	14.2	13.0	12.3	11.7
82.5°	34.6	18.5	12.3	10.5	9.3	9.9	9.9	8.6	7.4	6.2	6.2
85°	13.0	10.5	8.6	7.4	6.8	6.2	5.6	4.3	3.1	2.5	2.5
87.5°	8.0	7.4	6.8	6.2	5.6	4.3	3.7	2.5	1.2	0.6	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)