

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: P290537

Luminaire Tested: **AXCS2A-GRF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290537  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-095-1)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: AXCS2A-GRF  
Description: 2A AXCENT SMALL LED WALLPACK WITH 4000K CCT AND 70 CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2422.5 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Luminous Opening: Rectangular (W 0.17' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

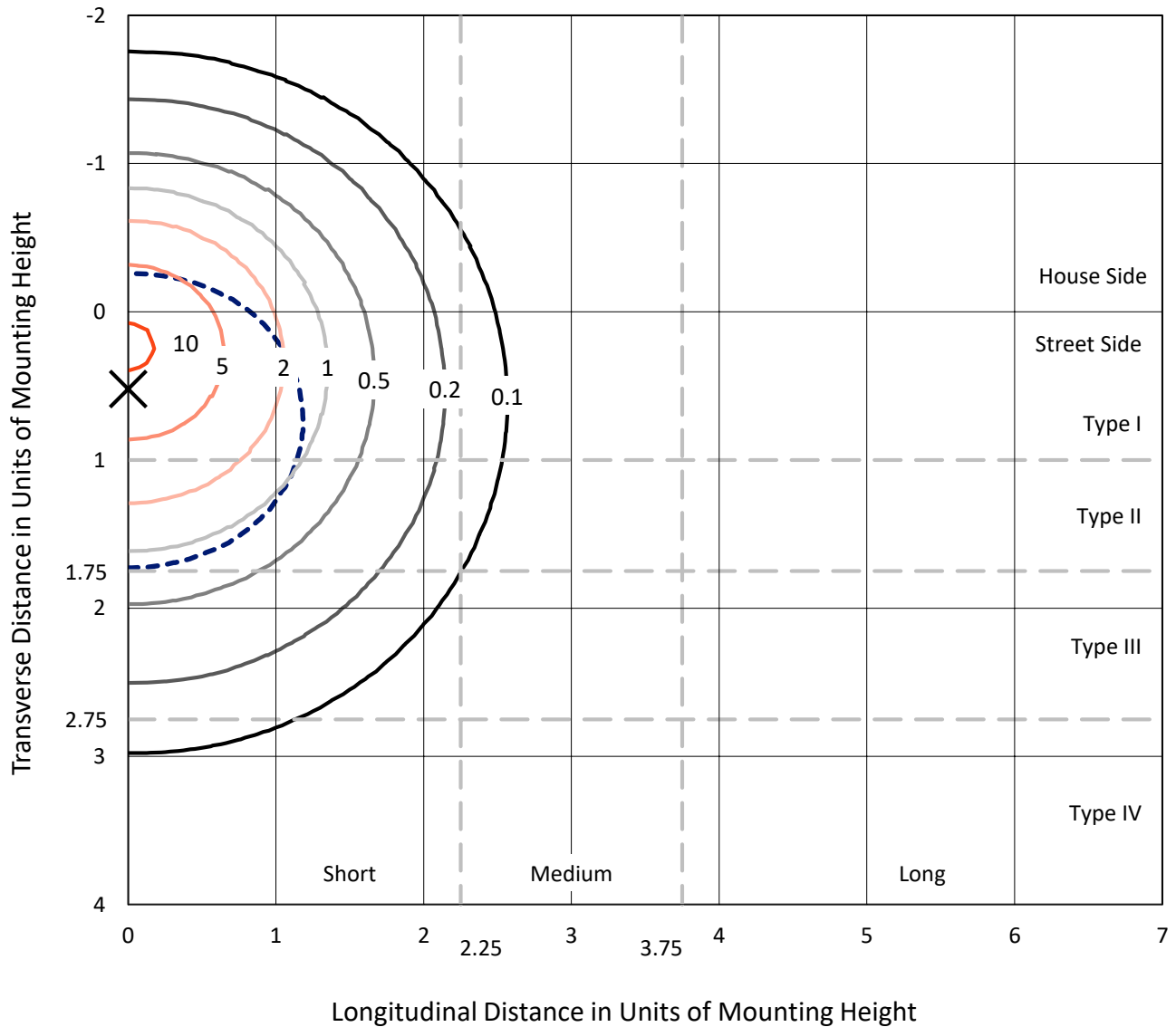
Input Watts (W): 20.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

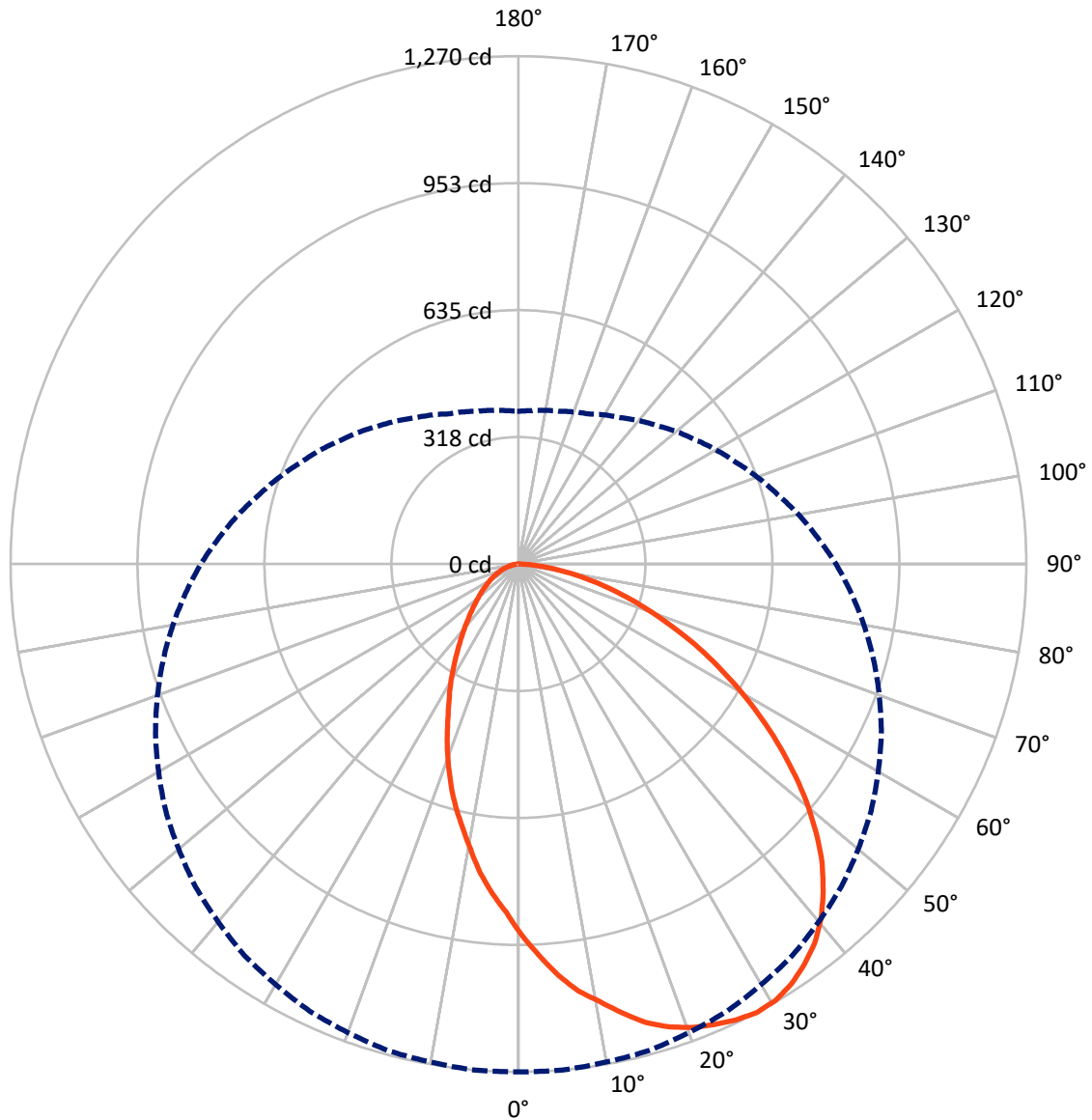
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 27.5-Deg Vertical

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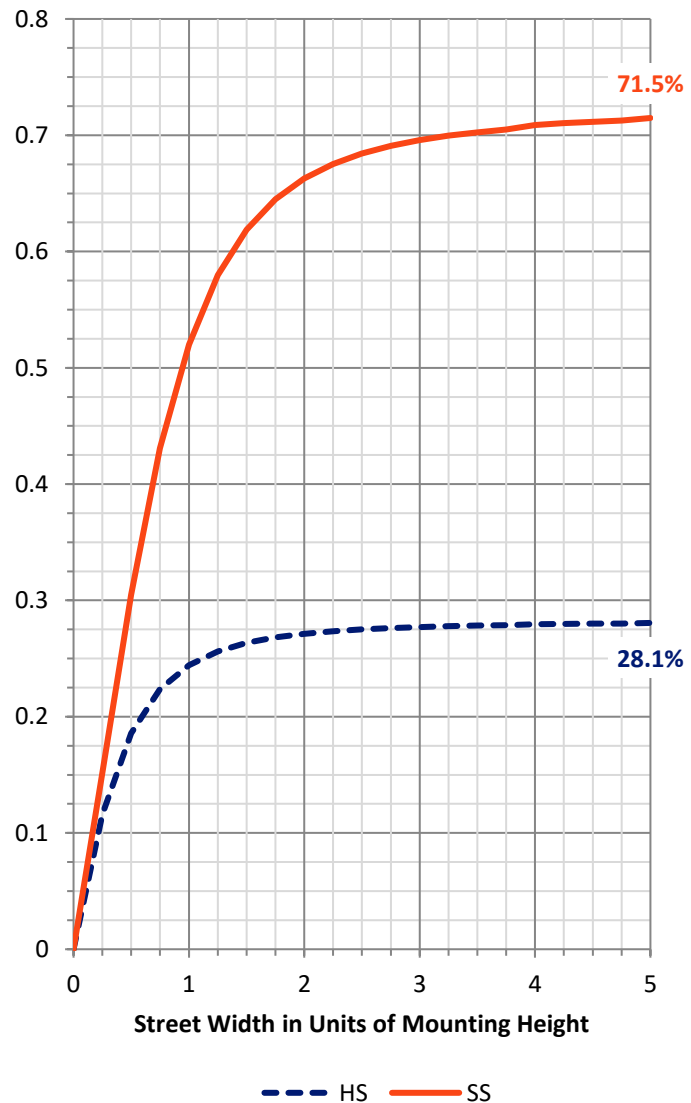
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	685.4	0.0	685.4
	% Fixture	28.3	0.0	28.3
<b>Street Side</b>	Lumens	1737.1	0.0	1737.1
	% Fixture	71.7	0.0	71.7
<b>Total</b>	Lumens	2422.5	0.0	2422.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.0	3.6
10°-20°	253.8	10.5
20°-30°	383.9	15.8
30°-40°	455.2	18.8
40°-50°	452.0	18.7
50°-60°	375.8	15.5
60°-70°	256.9	10.6
70°-80°	129.8	5.4
80°-90°	27.0	1.1
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°	2422.5	100.0
0°-180°	2422.5	100.0



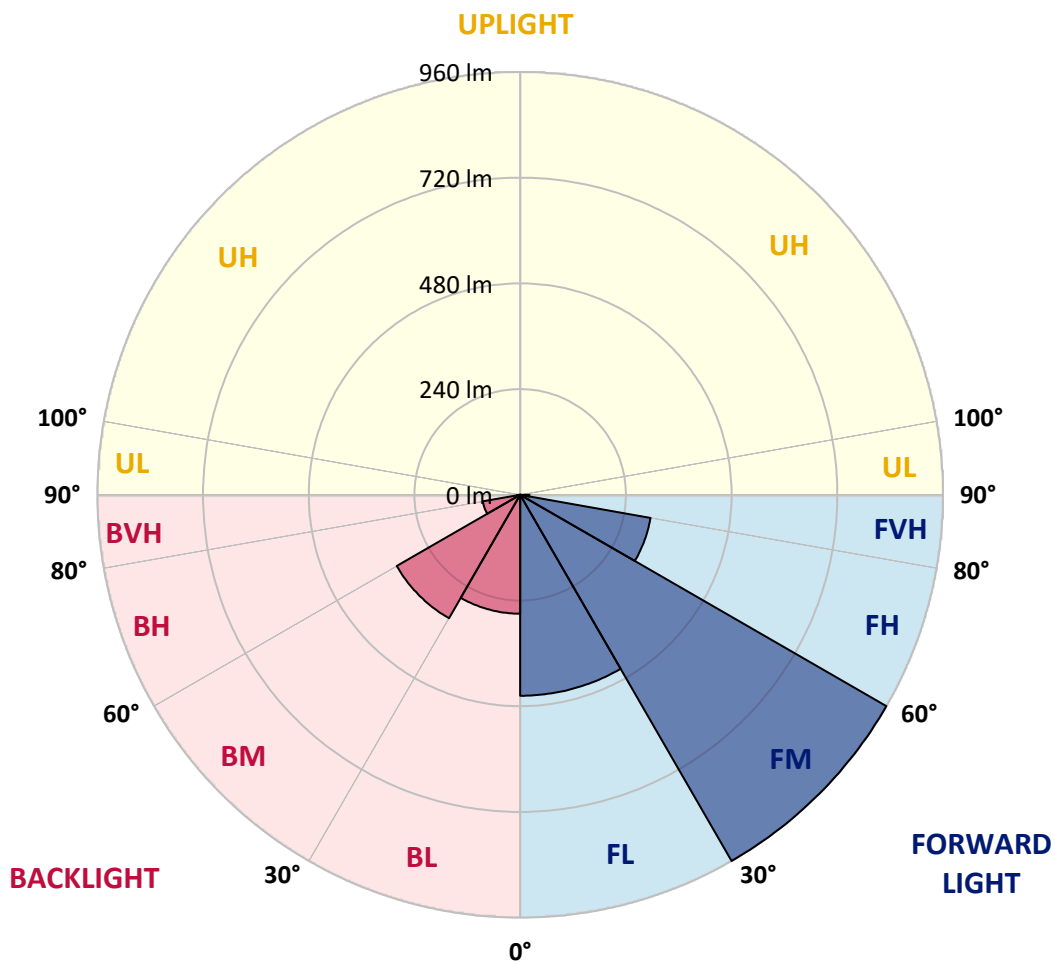
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	456.0	18.8			
FM	(30°-60°)	959.6	39.6			
FH	(60°-80°)	300.5	12.4			G0/660
FVH	(80°-90°)	21.0	0.9			G1/100
BL	(0°-30°)	269.8	11.1	B1/500		
BM	(30°-60°)	323.4	13.4	B1/1000		
BH	(60°-80°)	86.2	3.6	B0/110		G0/110
BVH	(80°-90°)	6.0	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	927.9	927.9	927.9	927.9	927.9	927.9	927.9	927.9	927.9	927.9	927.9
2.5°	979.3	975.9	970.7	969.0	963.9	958.8	953.6	946.8	939.9	933.1	927.9
5°	1032.4	1027.2	1020.4	1013.5	1006.7	996.4	982.7	969.0	953.6	938.2	929.7
7.5°	1078.6	1073.5	1064.9	1056.3	1042.6	1029.0	1008.4	986.2	962.2	939.9	926.2
10°	1112.8	1109.4	1100.9	1088.9	1071.8	1051.2	1025.5	994.7	963.9	931.4	916.0
12.5°	1152.2	1147.1	1138.5	1123.1	1100.9	1075.2	1042.6	1006.7	967.3	926.2	905.7
15°	1189.9	1186.5	1176.2	1159.1	1135.1	1102.6	1063.2	1018.7	970.7	922.8	897.1
17.5°	1217.3	1215.6	1207.0	1186.5	1159.1	1119.7	1075.2	1023.8	969.0	912.5	883.4
20°	1237.8	1237.8	1227.6	1205.3	1172.8	1131.7	1080.3	1022.1	960.5	897.1	862.9
22.5°	1251.5	1251.5	1241.2	1217.3	1181.3	1136.8	1080.3	1015.3	946.8	876.6	838.9
25°	1263.5	1261.8	1253.2	1227.6	1189.9	1140.2	1080.3	1010.1	934.8	856.0	816.7
27.5°	1270.4	1270.4	1260.1	1234.4	1195.0	1141.9	1076.9	1001.6	919.4	835.5	794.4
30°	1266.9	1265.2	1254.9	1229.3	1188.2	1133.4	1063.2	982.7	897.1	808.1	765.3
32.5°	1253.2	1249.8	1239.5	1215.6	1172.8	1116.3	1044.4	960.5	871.4	777.3	731.1
35°	1231.0	1231.0	1219.0	1195.0	1153.9	1095.7	1018.7	934.8	840.6	744.7	698.5
37.5°	1203.6	1201.9	1189.9	1167.6	1126.5	1068.3	991.3	904.0	808.1	708.8	664.3
40°	1165.9	1164.2	1152.2	1130.0	1088.9	1032.4	955.3	868.0	770.4	671.1	624.9
42.5°	1118.0	1118.0	1106.0	1085.5	1046.1	991.3	916.0	826.9	731.1	631.8	587.2
45°	1064.9	1063.2	1051.2	1032.4	994.7	939.9	868.0	780.7	686.5	590.7	546.1
47.5°	1001.6	999.8	989.6	974.2	938.2	888.6	816.7	732.8	640.3	547.9	505.1
50°	933.1	931.4	921.1	907.4	874.9	826.9	758.4	679.7	592.4	503.3	464.0
52.5°	859.5	859.5	850.9	837.2	809.8	761.9	698.5	624.9	542.7	458.8	417.7
55°	784.1	784.1	777.3	765.3	739.6	698.5	640.3	570.1	493.1	410.9	378.4
57.5°	707.1	707.1	701.9	691.7	667.7	630.0	578.7	513.6	441.7	371.5	340.7
60°	631.8	631.8	626.6	618.1	597.5	561.6	513.6	458.8	392.1	328.7	301.3
62.5°	556.4	558.1	553.0	546.1	529.0	496.5	455.4	400.6	345.8	289.3	265.4
65°	484.5	486.2	482.8	474.2	460.5	429.7	393.8	351.0	301.3	251.7	231.1
67.5°	410.9	412.6	414.3	404.0	392.1	368.1	339.0	299.6	258.5	217.4	198.6
70°	345.8	347.5	347.5	340.7	330.4	309.9	282.5	251.7	217.4	181.5	167.8
72.5°	282.5	284.2	285.9	280.8	270.5	253.4	232.8	207.2	178.1	148.9	137.0
75°	224.3	227.7	226.0	220.9	214.0	200.3	184.9	162.6	140.4	118.1	107.9
77.5°	169.5	171.2	171.2	167.8	162.6	154.1	140.4	123.3	106.1	90.7	82.2
80°	119.8	119.8	121.6	119.8	114.7	106.1	97.6	87.3	75.3	65.1	58.2
82.5°	75.3	77.0	77.0	75.3	71.9	68.5	59.9	53.1	46.2	41.1	36.0
85°	37.7	39.4	39.4	37.7	37.7	34.2	30.8	25.7	22.3	20.5	17.1
87.5°	12.0	12.0	10.3	12.0	12.0	10.3	8.6	6.8	6.8	5.1	5.1
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	927.9	927.9	927.9	927.9	927.9	927.9	927.9	927.9	927.9	927.9
2.5°	922.8	912.5	904.0	893.7	886.9	880.0	876.6	871.4	871.4	871.4
5°	919.4	902.3	885.1	868.0	854.3	842.3	835.5	828.6	825.2	826.9
7.5°	910.8	885.1	861.2	837.2	818.4	801.2	789.3	780.7	775.6	779.0
10°	897.1	862.9	830.4	801.2	775.6	755.0	739.6	729.3	722.5	724.2
12.5°	883.4	842.3	801.2	768.7	736.2	710.5	691.7	681.4	672.8	672.8
15°	871.4	820.1	775.6	734.5	698.5	669.4	647.2	635.2	626.6	626.6
17.5°	854.3	796.1	743.0	698.5	657.4	624.9	599.2	585.5	577.0	577.0
20°	830.4	765.3	708.8	659.1	612.9	578.7	549.6	535.9	525.6	525.6
22.5°	804.7	734.5	671.1	616.3	568.4	530.7	501.6	486.2	476.0	476.0
25°	779.0	703.7	635.2	578.7	529.0	489.7	457.1	438.3	426.3	424.6
27.5°	751.6	671.1	600.9	541.0	489.7	446.8	414.3	395.5	385.2	381.8
30°	719.1	635.2	563.3	499.9	445.1	404.0	373.2	354.4	344.1	344.1
32.5°	686.5	599.2	525.6	462.3	404.0	366.4	335.6	316.7	306.5	306.5
35°	650.6	563.3	487.9	421.2	368.1	330.4	301.3	282.5	272.2	272.2
37.5°	614.6	529.0	450.3	386.9	337.3	297.9	268.8	251.7	243.1	241.4
40°	577.0	491.4	412.6	352.7	304.7	267.1	241.4	224.3	215.7	214.0
42.5°	539.3	453.7	378.4	320.2	273.9	239.7	215.7	198.6	191.8	190.0
45°	499.9	416.0	345.8	291.1	246.5	215.7	191.8	178.1	171.2	169.5
47.5°	462.3	380.1	315.0	263.7	222.6	193.5	171.2	157.5	150.7	150.7
50°	416.0	345.8	284.2	238.0	200.3	172.9	152.4	140.4	135.3	133.5
52.5°	378.4	313.3	256.8	214.0	179.8	154.1	137.0	125.0	119.8	119.8
55°	344.1	282.5	231.1	191.8	159.2	138.7	121.6	113.0	106.1	106.1
57.5°	306.5	251.7	207.2	171.2	143.8	123.3	109.6	99.3	94.2	94.2
60°	273.9	224.3	183.2	152.4	126.7	107.9	95.9	89.0	83.9	83.9
62.5°	241.4	196.9	160.9	133.5	111.3	95.9	83.9	77.0	73.6	73.6
65°	208.9	171.2	140.4	116.4	97.6	83.9	73.6	66.8	65.1	63.3
67.5°	179.8	148.9	121.6	101.0	83.9	71.9	63.3	58.2	54.8	54.8
70°	150.7	125.0	102.7	85.6	71.9	61.6	54.8	49.6	47.9	46.2
72.5°	125.0	102.7	83.9	70.2	58.2	51.4	44.5	41.1	39.4	39.4
75°	99.3	82.2	66.8	56.5	47.9	39.4	36.0	32.5	30.8	30.8
77.5°	75.3	61.6	51.4	42.8	36.0	30.8	27.4	25.7	24.0	22.3
80°	53.1	42.8	36.0	30.8	25.7	22.3	18.8	17.1	17.1	17.1
82.5°	32.5	27.4	22.3	18.8	15.4	13.7	12.0	10.3	10.3	10.3
85°	17.1	13.7	10.3	8.6	6.8	6.8	5.1	5.1	5.1	5.1
87.5°	5.1	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)