

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: AMETRIX

Report Number: P508489

Luminaire Tested: **ASYX-X-SL-X-U-W-L35-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-840-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: AMETRIX
Catalog Number: ASYX-X-SL-X-U-W-L35-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(1) AF LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

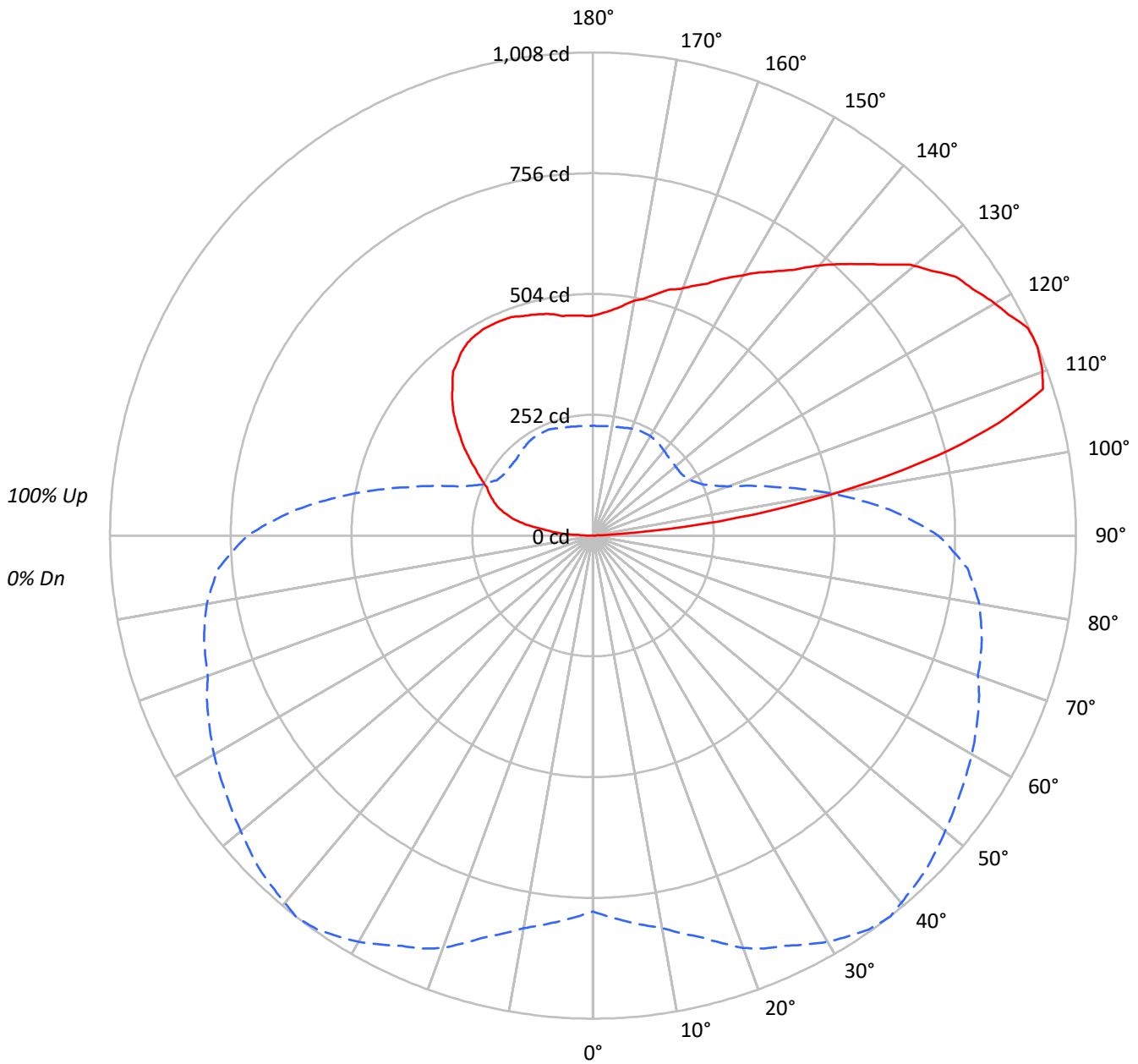
Lumens per Lamp: N/A
Luminaire Lumens: 3028.9 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Indirect

Input Watts (W): 26.8
Input Voltage (V): 120
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: 24 FT



TEST NUMBER: P508489
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Luminous Intensity Polar Plot



— Vertical Plane Through 38° Lateral - - - Horizontal Cone Through 112.5° Vertical



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20		
RC	80				70				50				30				10		0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10		0
RCR																			
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10		0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8		0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7		0
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6		0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5		0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4		0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4		0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3		0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3		0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3		0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2		0

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
95°	28109	31320	39817
100°	76690	59383	36225
105°	76839	63431	33238
110°	85590	78012	27985
115°	90274	78243	23310
120°	84630	68906	21640
125°	73932	58934	21529
130°	63600	48924	22305
135°	53955	41990	22694
140°	45279	35741	23421
145°	38275	31447	23484
150°	32574	27876	23551
155°	28523	24951	22912
160°	25691	22735	22295
165°	23553	21400	21351
170°	21882	20378	20474
175°	20473	19868	19778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	124.0	4.1
100°-110°	448.7	14.8
110°-120°	604.9	20.0
120°-130°	575.7	19.0
130°-140°	479.7	15.8
140°-150°	363.4	12.0
150°-160°	247.3	8.2
160°-170°	140.5	4.6
170°-180°	44.7	1.5
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.0	0.0
90°-120°	1177.6	38.9
90°-150°	2596.4	85.7
90°-180°	3029.0	100.0
0°-180°	3028.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	57	186	63	63	81	101
105°	462	943	381	169	200	501
115°	886	964	768	244	229	854
125°	985	882	785	328	287	879
135°	886	759	690	416	373	687
145°	728	648	598	473	447	461
155°	600	569	525	490	482	281
165°	528	512	480	477	479	151
175°	474	467	460	459	458	46
180°	458	458	458	458	458	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	38°	40°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	8.6	8.6	8.6	9.7	10.7	11.8	11.8	15.0	19.3	20.4	23.6
95°	56.9	65.5	97.7	112.8	113.9	117.1	117.1	148.2	184.7	193.3	201.9
97.5°	152.5	163.3	197.6	224.5	263.1	273.9	286.8	312.6	352.3	375.9	387.7
100°	309.3	311.5	329.7	354.4	396.3	420.0	449.0	519.9	555.3	555.3	542.4
102.5°	392.0	394.2	410.3	433.9	483.3	518.8	552.1	638.0	710.0	736.8	747.6
105°	461.9	469.4	486.6	519.9	580.0	619.7	650.9	748.6	832.4	878.6	914.0
107.5°	551.0	562.8	591.8	630.5	702.4	748.6	788.4	867.9	940.9	987.1	986.0
110°	679.9	686.3	716.4	766.9	829.2	865.7	890.4	946.3	995.7	1000.0	1002.1
112.5°	784.1	807.7	831.3	866.8	915.1	932.3	944.1	978.5	1003.2	1007.5	1000.0
115°	886.1	894.7	906.5	930.1	952.7	969.9	972.0	990.3	995.7	1005.3	988.1
117.5°	949.5	953.8	954.9	963.4	975.3	984.9	982.8	988.1	994.6	981.7	973.1
120°	982.8	987.1	979.6	982.8	986.0	988.1	983.9	986.0	974.2	964.5	954.9
122.5°	995.7	994.6	987.1	987.1	982.8	981.7	973.1	965.6	957.0	944.1	932.3
125°	984.9	989.2	979.6	972.0	962.4	978.5	957.0	949.5	934.4	930.1	907.6
127.5°	971.0	979.6	963.4	955.9	946.3	943.0	930.1	919.4	908.7	896.9	881.8
130°	949.5	952.7	937.7	930.1	920.5	910.8	908.7	885.0	877.5	870.0	849.6
132.5°	928.0	922.6	907.6	897.9	886.1	880.7	875.4	855.0	844.2	828.1	817.4
135°	886.1	887.2	873.2	862.5	846.4	846.4	836.7	821.7	807.7	793.7	779.8
137.5°	846.4	853.9	833.5	823.8	815.2	808.8	795.9	781.9	766.9	761.5	750.8
140°	805.6	806.6	790.5	781.9	775.5	763.7	756.1	743.3	737.9	728.2	713.2
142.5°	770.1	765.8	752.9	743.3	736.8	728.2	723.9	711.0	702.4	693.9	688.5
145°	728.2	727.1	712.1	705.7	700.3	697.1	689.6	679.9	675.6	668.1	668.1
147.5°	692.8	687.4	678.8	671.3	664.9	661.6	661.6	644.4	647.7	646.6	636.9
150°	655.2	654.1	642.3	639.1	633.7	635.9	633.7	626.2	626.2	621.9	615.4
152.5°	625.1	625.1	615.4	613.3	611.1	610.1	605.8	602.6	602.6	601.5	594.0
155°	600.4	600.4	592.9	591.8	588.6	587.5	585.4	582.1	580.0	577.9	571.4
157.5°	580.0	578.9	570.3	571.4	568.2	568.2	567.1	560.7	562.8	561.7	557.4
160°	560.7	559.6	551.0	554.2	552.1	552.1	552.1	547.8	545.6	545.6	536.0
162.5°	543.5	545.6	537.0	536.0	537.0	537.0	532.7	529.5	532.7	536.0	526.3
165°	528.4	526.3	523.1	522.0	519.9	517.7	519.9	517.7	515.6	519.9	516.6
167.5°	513.4	515.6	509.1	507.0	507.0	511.3	508.0	503.7	505.9	504.8	498.4
170°	500.5	502.7	494.1	494.1	494.1	494.1	490.9	487.6	493.0	495.1	487.6
172.5°	487.6	490.9	483.3	482.3	481.2	483.3	481.2	478.0	484.4	481.2	478.0
175°	473.7	479.0	471.5	470.4	472.6	472.6	470.4	468.3	472.6	470.4	468.3
177.5°	467.2	467.2	459.7	460.8	460.8	459.7	462.9	461.9	462.9	462.9	467.2
180°	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6



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CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	24.7	29.0	31.1	17.2	17.2	19.3	18.3	16.1	14.0	12.9	12.9
95°	185.8	176.1	181.5	163.3	141.8	124.6	123.5	124.6	85.9	64.4	63.4
97.5°	399.6	395.3	362.0	310.4	295.4	296.4	278.2	230.9	193.3	165.4	142.9
100°	519.9	505.9	490.9	501.6	471.5	447.9	414.6	372.7	328.7	291.1	239.5
102.5°	741.1	719.6	664.9	604.7	544.6	523.1	498.4	451.1	404.9	360.9	308.3
105°	943.0	906.5	814.1	728.2	646.6	621.9	589.7	537.0	483.3	439.3	381.3
107.5°	991.4	964.5	913.0	855.0	784.1	743.3	713.2	656.3	605.8	545.6	479.0
110°	995.7	968.8	936.6	896.9	862.5	838.9	819.5	776.6	740.0	687.4	619.7
112.5°	983.9	959.1	935.5	913.0	886.1	872.1	855.0	839.9	818.4	784.1	720.7
115°	964.5	943.0	921.6	902.2	889.3	882.9	874.3	862.5	850.7	824.9	768.0
117.5°	946.3	921.6	902.2	895.8	884.0	874.3	873.2	871.1	863.6	850.7	795.9
120°	928.0	908.7	889.3	875.4	871.1	870.0	870.0	863.6	865.7	855.0	800.2
122.5°	899.0	884.0	867.9	861.4	843.1	847.4	849.6	845.3	853.9	846.4	794.8
125°	881.8	866.8	846.4	836.7	833.5	829.2	833.5	826.0	830.3	824.9	785.1
127.5°	852.8	833.5	822.7	815.2	813.1	798.0	805.6	806.6	807.7	799.1	763.7
130°	821.7	810.9	786.2	789.4	789.4	784.1	785.1	780.9	778.7	771.2	730.4
132.5°	799.1	785.1	769.0	764.7	760.4	759.4	759.4	751.9	751.9	742.2	715.3
135°	759.4	749.7	743.3	739.0	737.9	733.6	733.6	726.1	725.0	716.4	689.6
137.5°	731.4	721.8	716.4	713.2	710.0	702.4	706.7	700.3	693.9	691.7	665.9
140°	703.5	696.0	691.7	686.3	685.3	681.0	681.0	673.4	671.3	661.6	635.9
142.5°	679.9	675.6	667.0	664.9	657.3	658.4	653.0	654.1	645.5	634.8	614.4
145°	647.7	648.7	644.4	640.1	639.1	632.6	633.7	627.3	621.9	614.4	598.3
147.5°	630.5	630.5	624.0	618.7	614.4	613.3	607.9	609.0	600.4	589.7	578.9
150°	607.9	605.8	599.3	596.1	592.9	592.9	587.5	584.3	577.9	574.6	560.7
152.5°	591.8	586.4	583.2	576.8	576.8	571.4	567.1	565.0	559.6	553.1	542.4
155°	569.3	567.1	562.8	561.7	557.4	553.1	545.6	544.6	541.3	534.9	525.2
157.5°	551.0	554.2	547.8	544.6	538.1	537.0	529.5	530.6	524.1	519.9	511.3
160°	542.4	537.0	530.6	529.5	527.4	518.8	517.7	514.5	510.2	507.0	496.2
162.5°	523.1	522.0	518.8	516.6	509.1	509.1	496.2	501.6	498.4	495.1	489.8
165°	512.3	513.4	505.9	503.7	501.6	497.3	494.1	490.9	487.6	485.5	480.1
167.5°	498.4	496.2	494.1	489.8	490.9	487.6	484.4	482.3	480.1	478.0	473.7
170°	486.6	485.5	483.3	480.1	481.2	478.0	478.0	473.7	472.6	471.5	466.1
172.5°	476.9	476.9	474.7	474.7	473.7	470.4	468.3	466.1	466.1	464.0	462.9
175°	467.2	468.3	467.2	466.1	466.1	464.0	464.0	465.1	462.9	462.9	459.7
177.5°	459.7	459.7	459.7	459.7	459.7	459.7	459.7	458.6	459.7	458.6	455.4
180°	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6



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CATALOG NUMBER: ASYX-X-SL-X-U-W-L35-1-UNV-X-X-X-STD

CANDELA DISTRIBUTION (continued):

	95°	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	14.0	15.0	16.1	17.2	20.4	19.3	22.6	23.6	25.8	30.1	31.1
95°	56.9	56.9	55.9	55.9	53.7	53.7	52.6	51.6	56.9	63.4	72.0
97.5°	117.1	99.9	91.3	88.1	87.0	85.9	83.8	80.6	82.7	88.1	98.8
100°	197.6	163.3	135.3	119.2	116.0	110.6	108.5	107.4	107.4	118.1	135.3
102.5°	255.6	205.1	168.6	145.0	138.6	133.2	130.0	130.0	132.1	145.0	164.3
105°	323.3	258.9	203.0	171.9	166.5	159.0	153.6	154.7	156.8	168.6	185.8
107.5°	404.9	327.6	261.0	212.7	200.9	190.1	181.5	181.5	182.6	190.1	203.0
110°	527.4	427.5	327.6	255.6	236.3	224.5	204.1	204.1	203.0	208.4	217.0
112.5°	620.8	504.8	391.0	298.6	271.7	252.4	230.9	224.5	224.5	225.6	230.9
115°	676.7	556.4	435.0	338.3	302.9	279.3	252.4	244.9	241.7	243.8	241.7
117.5°	708.9	587.5	472.6	367.3	334.0	307.2	273.9	264.2	258.9	263.1	262.1
120°	725.0	615.4	502.7	397.4	363.0	331.9	296.4	286.8	282.5	282.5	283.6
122.5°	727.1	630.5	519.9	424.3	389.9	359.8	323.3	309.3	305.0	306.1	306.1
125°	719.6	628.3	536.0	445.7	412.4	382.4	344.8	333.0	323.3	327.6	328.7
127.5°	707.8	623.0	545.6	462.9	432.9	406.0	371.6	357.7	349.1	351.2	350.1
130°	690.6	616.5	554.2	478.0	452.2	425.3	395.3	382.4	370.6	371.6	372.7
132.5°	673.4	614.4	558.5	489.8	468.3	445.7	415.7	402.8	392.0	393.1	393.1
135°	655.2	609.0	553.1	497.3	486.6	462.9	438.2	424.3	415.7	415.7	413.5
137.5°	635.9	596.1	557.4	512.3	497.3	478.0	453.3	442.5	433.9	432.9	431.8
140°	618.7	582.1	552.1	515.6	504.8	489.8	469.4	460.8	449.0	446.8	453.3
142.5°	601.5	575.7	557.4	523.1	512.3	499.4	484.4	472.6	464.0	461.9	460.8
145°	584.3	569.3	548.9	520.9	516.6	503.7	487.6	484.4	474.7	472.6	472.6
147.5°	567.1	554.2	539.2	519.9	519.9	509.1	501.6	491.9	484.4	480.1	480.1
150°	552.1	541.3	533.8	518.8	517.7	509.1	502.7	498.4	489.8	487.6	486.6
152.5°	538.1	528.4	522.0	512.3	511.3	499.4	501.6	497.3	488.7	486.6	486.6
155°	520.9	519.9	512.3	502.7	507.0	500.5	495.1	500.5	487.6	489.8	489.8
157.5°	509.1	508.0	507.0	497.3	498.4	495.1	491.9	496.2	485.5	486.6	486.6
160°	496.2	494.1	494.1	485.5	491.9	485.5	486.6	488.7	482.3	483.3	486.6
162.5°	489.8	485.5	485.5	482.3	484.4	482.3	476.9	484.4	483.3	481.2	482.3
165°	479.0	478.0	480.1	473.7	479.0	472.6	474.7	478.0	475.8	476.9	478.0
167.5°	472.6	471.5	472.6	469.4	472.6	470.4	469.4	473.7	471.5	472.6	473.7
170°	467.2	467.2	468.3	465.1	468.3	465.1	468.3	468.3	467.2	467.2	469.4
172.5°	465.1	461.9	465.1	459.7	465.1	458.6	460.8	464.0	462.9	461.9	461.9
175°	460.8	459.7	462.9	457.6	460.8	457.6	457.6	460.8	459.7	458.6	462.9
177.5°	460.8	457.6	460.8	455.4	458.6	456.5	456.5	459.7	457.6	457.6	460.8
180°	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6



TEST NUMBER: P508489

CATALOG NUMBER: ASYX-X-SL-X-U-W-L35-1-UNV-X-X-X-STD

CANDELA DISTRIBUTION (continued):

	145°	150°	155°	157.5°	160°	165°	170°	175°	180°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	31.1	36.5	37.6	40.8	39.7	33.3	29.0	23.6	20.4
95°	81.6	90.2	98.8	97.7	101.0	94.5	88.1	84.9	80.6
97.5°	109.6	123.5	132.1	132.1	133.2	128.9	126.7	128.9	123.5
100°	154.7	164.3	167.6	166.5	163.3	155.7	151.4	149.3	146.1
102.5°	181.5	192.3	195.5	193.3	191.2	188.0	183.7	181.5	180.4
105°	199.8	209.4	213.7	212.7	211.6	206.2	197.6	200.9	199.8
107.5°	217.0	223.4	227.7	224.5	223.4	220.2	214.8	218.0	213.7
110°	227.7	233.1	234.1	234.1	232.0	228.8	224.5	225.6	222.3
112.5°	236.3	239.5	239.5	239.5	237.4	233.1	230.9	228.8	228.8
115°	246.0	243.8	244.9	244.9	242.7	236.3	233.1	230.9	228.8
117.5°	263.1	259.9	256.7	256.7	251.3	247.0	243.8	240.6	237.4
120°	279.3	277.1	275.0	271.7	268.5	263.1	257.8	253.5	251.3
122.5°	300.7	295.4	292.1	294.3	287.9	282.5	276.0	271.7	266.4
125°	324.4	320.1	314.7	312.6	307.2	302.9	297.5	293.2	286.8
127.5°	344.8	338.3	336.2	335.1	328.7	323.3	314.7	311.5	311.5
130°	368.4	360.9	362.0	356.6	351.2	342.6	334.0	334.0	333.0
132.5°	391.0	382.4	381.3	379.1	372.7	366.3	360.9	359.8	355.5
135°	409.2	402.8	401.7	399.6	394.2	387.7	379.1	381.3	372.7
137.5°	425.3	422.1	421.0	416.7	411.4	410.3	400.6	399.6	394.2
140°	443.6	437.1	441.4	436.1	429.6	427.5	414.6	416.7	416.7
142.5°	456.5	453.3	452.2	450.0	445.7	441.4	438.2	433.9	436.1
145°	469.4	467.2	465.1	465.1	458.6	456.5	450.0	450.0	446.8
147.5°	480.1	475.8	475.8	473.7	470.4	468.3	461.9	465.1	459.7
150°	480.1	482.3	480.1	480.1	481.2	480.1	474.7	472.6	473.7
152.5°	488.7	485.5	483.3	487.6	482.3	485.5	478.0	480.1	478.0
155°	484.4	486.6	487.6	485.5	485.5	485.5	482.3	487.6	482.3
157.5°	488.7	486.6	487.6	486.6	484.4	487.6	484.4	488.7	485.5
160°	486.6	484.4	486.6	485.5	483.3	487.6	487.6	490.9	486.6
162.5°	479.0	481.2	486.6	483.3	483.3	490.9	479.0	489.8	483.3
165°	476.9	478.0	480.1	482.3	478.0	481.2	481.2	482.3	479.0
167.5°	474.7	470.4	474.7	474.7	475.8	475.8	475.8	478.0	473.7
170°	470.4	461.9	470.4	470.4	468.3	468.3	467.2	473.7	468.3
172.5°	462.9	460.8	464.0	464.0	466.1	465.1	465.1	466.1	462.9
175°	458.6	459.7	464.0	460.8	459.7	460.8	457.6	460.8	457.6
177.5°	456.5	456.5	457.6	458.6	460.8	458.6	455.4	458.6	455.4
180°	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6

(END OF REPORT)