

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: P508477

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

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-840-1)
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-F-L35-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(1) AF LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD THROW OPTICS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

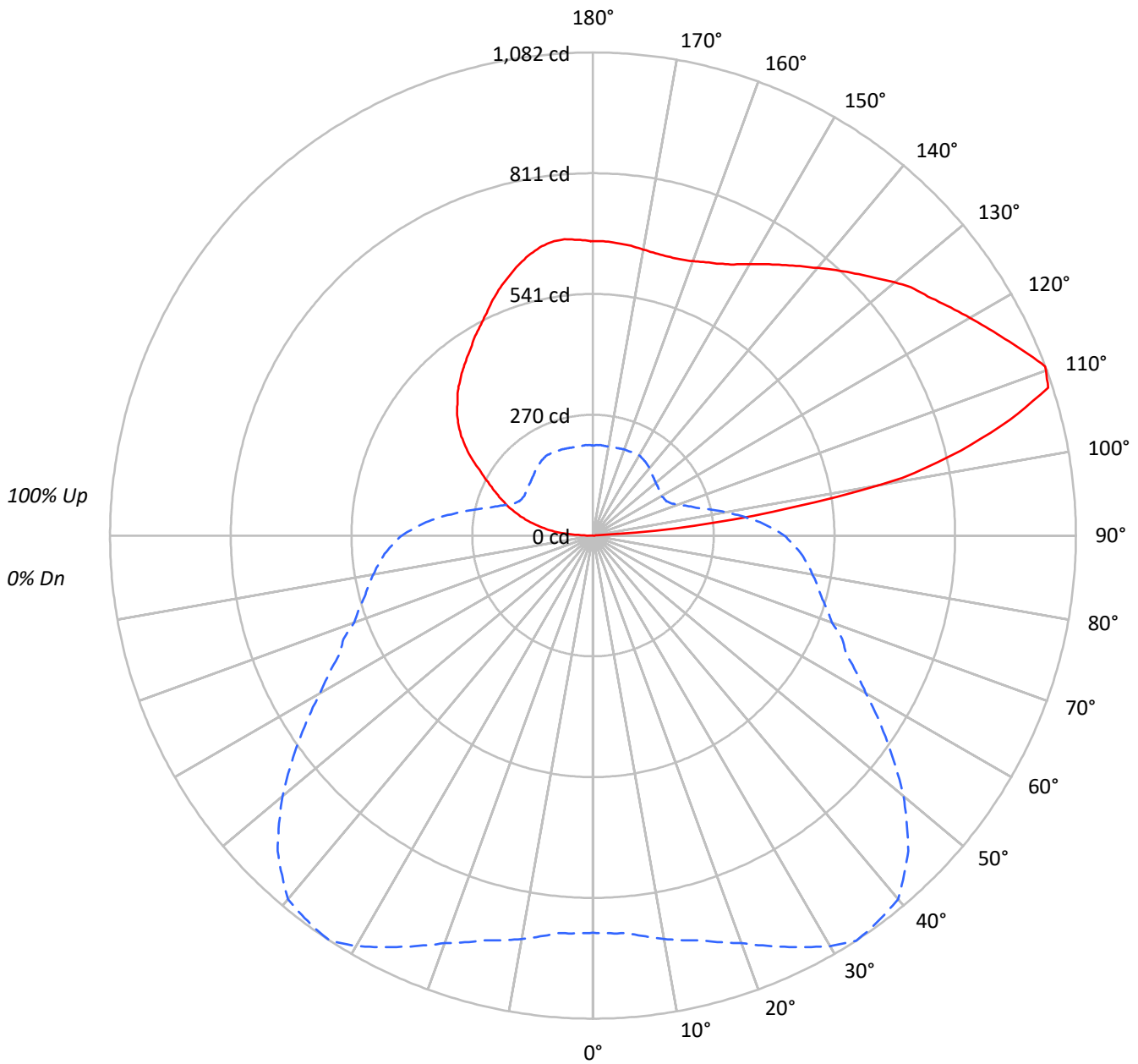
Lumens per Lamp: N/A
Luminaire Lumens: 3129.8 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Indirect

Input Watts (W): 26.9
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: P508477
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Luminous Intensity Polar Plot



— Vertical Plane Through 33° Lateral - - - Horizontal Cone Through 110° 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°	45646	17488	38187
100°	115841	37291	31415
105°	112572	41273	26800
110°	111951	53955	25416
115°	97610	61168	23310
120°	81117	60114	22475
125°	69098	56036	22895
130°	59065	51369	24174
135°	50819	47220	24459
140°	44312	43587	24387
145°	38953	40194	24557
150°	34175	37541	24565
155°	31383	35207	24898
160°	29035	32825	25736
165°	28055	31073	27003
170°	27941	29677	28129
175°	28594	28737	28365



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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°	113.6	3.6
100°-110°	419.0	13.4
110°-120°	568.5	18.2
120°-130°	566.0	18.1
130°-140°	503.9	16.1
140°-150°	409.5	13.1
150°-160°	300.7	9.6
160°-170°	185.5	5.9
170°-180°	63.0	2.0
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°	1101.2	35.2
90°-150°	2580.6	82.5
90°-180°	3130.0	100.0
0°-180°	3129.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	92	136	35	54	77	153
105°	677	909	248	146	161	720
115°	958	986	600	233	229	937
125°	920	920	746	331	305	823
135°	835	838	776	418	402	650
145°	741	743	765	495	467	466
155°	661	683	741	581	524	305
165°	629	652	697	646	606	180
175°	662	655	665	665	656	62
180°	660	660	660	660	660	



TEST NUMBER: P508477

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	33°	35°	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°	5.4	5.4	5.4	6.4	7.5	7.5	9.7	10.7	9.7	14.0	16.1
95°	92.4	106.3	152.5	181.5	179.4	169.7	180.4	211.6	227.7	207.3	176.1
97.5°	232.0	240.6	336.2	381.3	421.0	440.4	457.6	443.6	451.1	446.8	407.1
100°	467.2	495.1	528.4	574.6	631.6	672.4	703.5	728.2	704.6	667.0	557.4
102.5°	598.3	607.9	630.5	654.1	715.3	745.4	776.6	830.3	846.4	838.9	779.8
105°	676.7	682.0	703.5	739.0	786.2	819.5	858.2	928.0	968.8	973.1	977.4
107.5°	775.5	787.3	813.1	835.6	891.5	930.1	964.5	1036.5	1071.9	1074.1	1059.0
110°	889.3	893.6	917.3	938.7	971.0	993.5	1016.1	1061.2	1081.6	1078.4	1063.3
112.5°	950.6	955.9	964.5	972.0	987.1	996.7	1010.7	1039.7	1051.5	1054.7	1039.7
115°	958.1	958.1	964.5	965.6	982.8	982.8	989.2	1017.1	1022.5	1026.8	1018.2
117.5°	951.6	953.8	958.1	955.9	963.4	974.2	972.0	989.2	995.7	992.4	995.7
120°	942.0	939.8	948.4	944.1	949.5	955.9	951.6	964.5	969.9	967.7	978.5
122.5°	932.3	932.3	935.5	934.4	932.3	930.1	931.2	939.8	945.2	944.1	950.6
125°	920.5	919.4	918.3	914.0	919.4	916.2	910.8	917.3	921.6	919.4	925.9
127.5°	901.1	902.2	900.1	897.9	891.5	890.4	895.8	892.6	903.3	896.9	903.3
130°	881.8	881.8	879.7	875.4	873.2	868.9	867.9	870.0	876.4	878.6	868.9
132.5°	866.8	859.3	853.9	850.7	850.7	846.4	844.2	846.4	849.6	855.0	856.0
135°	834.6	830.3	830.3	826.0	832.4	822.7	820.6	823.8	824.9	824.9	831.3
137.5°	816.3	805.6	801.3	800.2	799.1	795.9	795.9	800.2	801.3	800.2	805.6
140°	788.4	776.6	780.9	775.5	776.6	771.2	773.3	773.3	777.6	777.6	783.0
142.5°	772.3	755.1	752.9	749.7	750.8	748.6	759.4	751.9	756.1	763.7	760.4
145°	741.1	727.1	730.4	727.1	728.2	726.1	731.4	730.4	735.7	734.7	740.0
147.5°	707.8	706.7	707.8	705.7	707.8	705.7	712.1	711.0	716.4	719.6	720.7
150°	687.4	683.1	684.2	686.3	684.2	688.5	688.5	692.8	698.1	699.2	703.5
152.5°	665.9	664.9	670.2	667.0	669.1	669.1	672.4	673.4	681.0	682.0	692.8
155°	660.6	650.9	650.9	649.8	655.2	655.2	659.5	665.9	669.1	674.5	675.6
157.5°	641.2	640.1	640.1	644.4	639.1	645.5	655.2	652.0	660.6	661.6	665.9
160°	633.7	630.5	632.6	634.8	634.8	640.1	647.7	646.6	652.0	658.4	659.5
162.5°	638.0	627.3	628.3	633.7	631.6	639.1	640.1	642.3	647.7	649.8	656.3
165°	629.4	626.2	624.0	626.2	632.6	635.9	639.1	641.2	646.6	647.7	650.9
167.5°	632.6	631.6	631.6	633.7	638.0	638.0	643.4	642.3	647.7	647.7	649.8
170°	639.1	635.9	638.0	642.3	634.8	646.6	645.5	642.3	650.9	650.9	654.1
172.5°	647.7	644.4	645.5	645.5	645.5	652.0	653.0	654.1	655.2	654.1	654.1
175°	661.6	653.0	652.0	652.0	654.1	654.1	656.3	650.9	657.3	657.3	656.3
177.5°	658.4	655.2	660.6	655.2	653.0	657.3	660.6	656.3	659.5	656.3	659.5
180°	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5



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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°	14.0	14.0	14.0	12.9	11.8	11.8	11.8	11.8	10.7	9.7	9.7
95°	136.4	108.5	98.8	81.6	68.7	63.4	54.8	54.8	40.8	33.3	35.4
97.5°	342.6	266.4	211.6	160.0	152.5	142.9	141.8	120.3	106.3	96.7	83.8
100°	444.7	365.2	316.9	290.0	254.6	238.4	226.6	204.1	190.1	170.8	150.4
102.5°	660.6	548.9	454.3	374.9	321.1	298.6	283.6	259.9	242.7	223.4	197.6
105°	908.7	751.9	594.0	474.7	402.8	373.8	348.0	324.4	301.8	271.7	248.1
107.5°	975.3	861.4	742.2	609.0	509.1	480.1	450.0	410.3	380.2	354.4	313.6
110°	998.9	907.6	804.5	705.7	625.1	604.7	569.3	529.5	499.4	468.3	428.6
112.5°	989.2	932.3	849.6	761.5	696.0	675.6	649.8	625.1	609.0	585.4	532.7
115°	986.0	939.8	881.8	803.4	744.3	721.8	701.4	678.8	674.5	658.4	600.4
117.5°	972.0	940.9	896.9	833.5	780.9	765.8	745.4	727.1	725.0	708.9	658.4
120°	962.4	936.6	899.0	857.1	812.0	795.9	778.7	764.7	758.3	746.5	698.1
122.5°	939.8	930.1	901.1	865.7	824.9	817.4	801.3	777.6	788.4	775.5	729.3
125°	920.5	915.1	907.6	864.6	835.6	826.0	814.1	800.2	803.4	794.8	746.5
127.5°	900.1	899.0	893.6	867.9	841.0	836.7	822.7	812.0	809.9	801.3	758.3
130°	884.0	882.9	875.4	858.2	841.0	839.9	826.0	817.4	816.3	808.8	766.9
132.5°	860.3	860.3	864.6	847.4	836.7	833.5	827.0	816.3	819.5	803.4	771.2
135°	837.8	838.9	842.1	833.5	839.9	828.1	821.7	807.7	814.1	807.7	775.5
137.5°	812.0	815.2	821.7	818.4	821.7	822.7	814.1	810.9	810.9	804.5	774.4
140°	780.9	793.7	805.6	804.5	810.9	809.9	806.6	791.6	805.6	801.3	775.5
142.5°	766.9	774.4	788.4	785.1	799.1	799.1	797.0	795.9	799.1	791.6	771.2
145°	743.3	755.1	765.8	772.3	780.9	789.4	786.2	788.4	789.4	789.4	764.7
147.5°	728.2	741.1	755.1	757.2	772.3	774.4	775.5	778.7	785.1	776.6	766.9
150°	712.1	720.7	736.8	743.3	759.4	762.6	761.5	765.8	776.6	770.1	755.1
152.5°	687.4	705.7	719.6	729.3	741.1	748.6	749.7	749.7	759.4	759.4	750.8
155°	683.1	692.8	705.7	715.3	728.2	735.7	736.8	736.8	746.5	743.3	741.1
157.5°	673.4	686.3	697.1	700.3	716.4	722.9	722.9	725.0	733.6	735.7	728.2
160°	667.0	673.4	686.3	696.0	704.6	712.1	713.2	715.3	720.7	719.6	716.4
162.5°	657.3	667.0	678.8	684.2	693.9	701.4	700.3	700.3	710.0	712.1	707.8
165°	652.0	662.7	676.7	679.9	686.3	690.6	689.6	692.8	701.4	699.2	697.1
167.5°	654.1	659.5	671.3	670.2	677.7	681.0	681.0	678.8	684.2	676.7	683.1
170°	657.3	657.3	663.8	665.9	672.4	675.6	672.4	672.4	675.6	677.7	678.8
172.5°	658.4	657.3	662.7	661.6	663.8	669.1	665.9	661.6	668.1	672.4	667.0
175°	655.2	656.3	664.9	662.7	659.5	664.9	659.5	658.4	668.1	667.0	664.9
177.5°	652.0	652.0	657.3	653.0	660.6	660.6	655.2	655.2	665.9	658.4	656.3
180°	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5



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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°	10.7	11.8	12.9	15.0	16.1	17.2	19.3	21.5	24.7	24.7	29.0
95°	34.4	35.4	35.4	37.6	38.7	38.7	39.7	44.0	48.3	53.7	63.4
97.5°	73.0	64.4	62.3	62.3	63.4	63.4	64.4	66.6	69.8	76.3	85.9
100°	128.9	109.6	95.6	88.1	85.9	84.9	85.9	85.9	91.3	99.9	110.6
102.5°	168.6	142.9	119.2	108.5	104.2	105.3	104.2	106.3	113.9	121.4	133.2
105°	212.7	179.4	149.3	133.2	126.7	125.7	125.7	127.8	136.4	146.1	154.7
107.5°	272.8	230.9	186.9	163.3	153.6	151.4	151.4	154.7	160.0	166.5	176.1
110°	369.5	300.7	239.5	201.9	189.0	181.5	177.2	180.4	183.7	189.0	196.6
112.5°	459.7	374.9	294.3	237.4	220.2	208.4	201.9	201.9	206.2	210.5	215.9
115°	522.0	427.5	340.5	273.9	249.2	238.4	224.5	225.6	228.8	233.1	236.3
117.5°	577.9	476.9	379.1	308.3	280.3	263.1	249.2	246.0	252.4	257.8	259.9
120°	617.6	519.9	417.8	343.7	311.5	292.1	272.8	269.6	276.0	277.1	287.9
122.5°	650.9	551.0	451.1	374.9	340.5	324.4	300.7	296.4	300.7	308.3	316.9
125°	672.4	578.9	481.2	403.9	371.6	350.1	325.4	322.2	325.4	330.8	340.5
127.5°	689.6	601.5	510.2	433.9	396.3	379.1	354.4	348.0	352.3	354.4	365.2
130°	702.4	627.3	537.0	462.9	429.6	412.4	379.1	372.7	374.9	380.2	385.6
132.5°	715.3	643.4	563.9	493.0	460.8	441.4	409.2	395.3	396.3	400.6	406.0
135°	723.9	660.6	591.8	523.1	487.6	472.6	438.2	424.3	418.9	417.8	424.3
137.5°	732.5	676.7	613.3	551.0	520.9	503.7	462.9	446.8	441.4	440.4	442.5
140°	740.0	690.6	632.6	581.1	551.0	530.6	493.0	472.6	464.0	459.7	461.9
142.5°	743.3	702.4	653.0	613.3	576.8	553.1	522.0	501.6	483.3	478.0	473.7
145°	745.4	720.7	672.4	633.7	605.8	591.8	554.2	527.4	505.9	495.1	493.0
147.5°	745.4	719.6	685.3	650.9	627.3	612.2	571.4	554.2	537.0	518.8	510.2
150°	743.3	731.4	694.9	668.1	643.4	631.6	602.6	570.3	552.1	539.2	529.5
152.5°	737.9	721.8	700.3	676.7	658.4	650.9	617.6	597.2	577.9	558.5	551.0
155°	732.5	719.6	703.5	684.2	669.1	659.5	635.9	615.4	601.5	581.1	573.6
157.5°	726.1	717.5	703.5	692.8	675.6	669.1	645.5	631.6	619.7	599.3	589.7
160°	716.4	711.0	702.4	687.4	679.9	674.5	655.2	644.4	632.6	617.6	610.1
162.5°	706.7	707.8	697.1	693.9	682.0	677.7	664.9	653.0	641.2	632.6	626.2
165°	699.2	703.5	692.8	682.0	682.0	679.9	665.9	660.6	655.2	645.5	638.0
167.5°	685.3	690.6	690.6	677.7	676.7	679.9	671.3	665.9	661.6	654.1	649.8
170°	683.1	683.1	675.6	676.7	679.9	672.4	667.0	665.9	665.9	661.6	658.4
172.5°	670.2	676.7	673.4	671.3	668.1	668.1	664.9	665.9	663.8	664.9	663.8
175°	665.9	667.0	668.1	667.0	663.8	663.8	662.7	663.8	664.9	664.9	662.7
177.5°	659.5	662.7	668.1	662.7	664.9	660.6	659.5	661.6	661.6	662.7	660.6
180°	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5



TEST NUMBER: P508477

CATALOG NUMBER: ASYX-X-SL-X-U-F-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°	32.2	34.4	35.4	36.5	37.6	34.4	34.4	31.1	29.0
95°	68.7	74.1	74.1	74.1	77.3	79.5	78.4	77.3	77.3
97.5°	93.4	102.0	108.5	109.6	109.6	109.6	110.6	110.6	108.5
100°	118.1	122.4	126.7	127.8	126.7	126.7	125.7	127.8	126.7
102.5°	141.8	146.1	147.1	148.2	147.1	146.1	143.9	146.1	141.8
105°	162.2	166.5	165.4	164.3	163.3	161.1	159.0	162.2	161.1
107.5°	184.7	185.8	186.9	188.0	183.7	182.6	182.6	184.7	183.7
110°	203.0	207.3	206.2	205.1	205.1	203.0	201.9	203.0	201.9
112.5°	222.3	224.5	223.4	223.4	222.3	219.1	215.9	217.0	215.9
115°	242.7	243.8	242.7	240.6	238.4	236.3	232.0	229.9	228.8
117.5°	264.2	263.1	261.0	259.9	257.8	256.7	250.3	247.0	246.0
120°	288.9	285.7	281.4	280.3	277.1	276.0	267.4	262.1	261.0
122.5°	319.0	313.6	305.0	300.7	299.7	296.4	285.7	283.6	280.3
125°	344.8	342.6	337.3	334.0	329.7	320.1	308.3	302.9	305.0
127.5°	369.5	368.4	366.3	362.0	356.6	352.3	342.6	334.0	331.9
130°	389.9	391.0	387.7	384.5	381.3	377.0	366.3	360.9	360.9
132.5°	409.2	410.3	412.4	403.9	401.7	397.4	387.7	381.3	383.4
135°	424.3	426.4	423.2	420.0	417.8	413.5	403.9	400.6	401.7
137.5°	444.7	442.5	439.3	437.1	431.8	430.7	423.2	417.8	415.7
140°	457.6	458.6	458.6	453.3	447.9	445.7	438.2	432.9	433.9
142.5°	474.7	470.4	472.6	467.2	464.0	460.8	451.1	450.0	450.0
145°	487.6	485.5	484.4	480.1	479.0	472.6	469.4	464.0	467.2
147.5°	501.6	501.6	501.6	491.9	489.8	486.6	483.3	479.0	482.3
150°	522.0	514.5	512.3	507.0	502.7	500.5	493.0	490.9	494.1
152.5°	538.1	529.5	523.1	519.9	518.8	515.6	511.3	508.0	508.0
155°	557.4	545.6	545.6	533.8	530.6	528.4	524.1	523.1	524.1
157.5°	577.9	567.1	561.7	555.3	549.9	547.8	542.4	540.3	542.4
160°	592.9	591.8	580.0	576.8	571.4	568.2	567.1	561.7	561.7
162.5°	616.5	601.5	599.3	596.1	591.8	587.5	585.4	583.2	585.4
165°	629.4	625.1	619.7	615.4	612.2	611.1	604.7	606.9	605.8
167.5°	644.4	641.2	635.9	632.6	633.7	629.4	629.4	624.0	625.1
170°	655.2	657.3	650.9	647.7	645.5	645.5	641.2	641.2	643.4
172.5°	662.7	665.9	660.6	658.4	656.3	658.4	654.1	653.0	655.2
175°	664.9	669.1	664.9	663.8	661.6	668.1	660.6	660.6	656.3
177.5°	662.7	663.8	668.1	661.6	661.6	663.8	664.9	656.3	661.6
180°	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5

(END OF REPORT)