

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1007917

Luminaire Tested: S125IP-B850UB50-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125IP-B850UB50-4F0-XX-W2A-4
Description: Define 5 Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

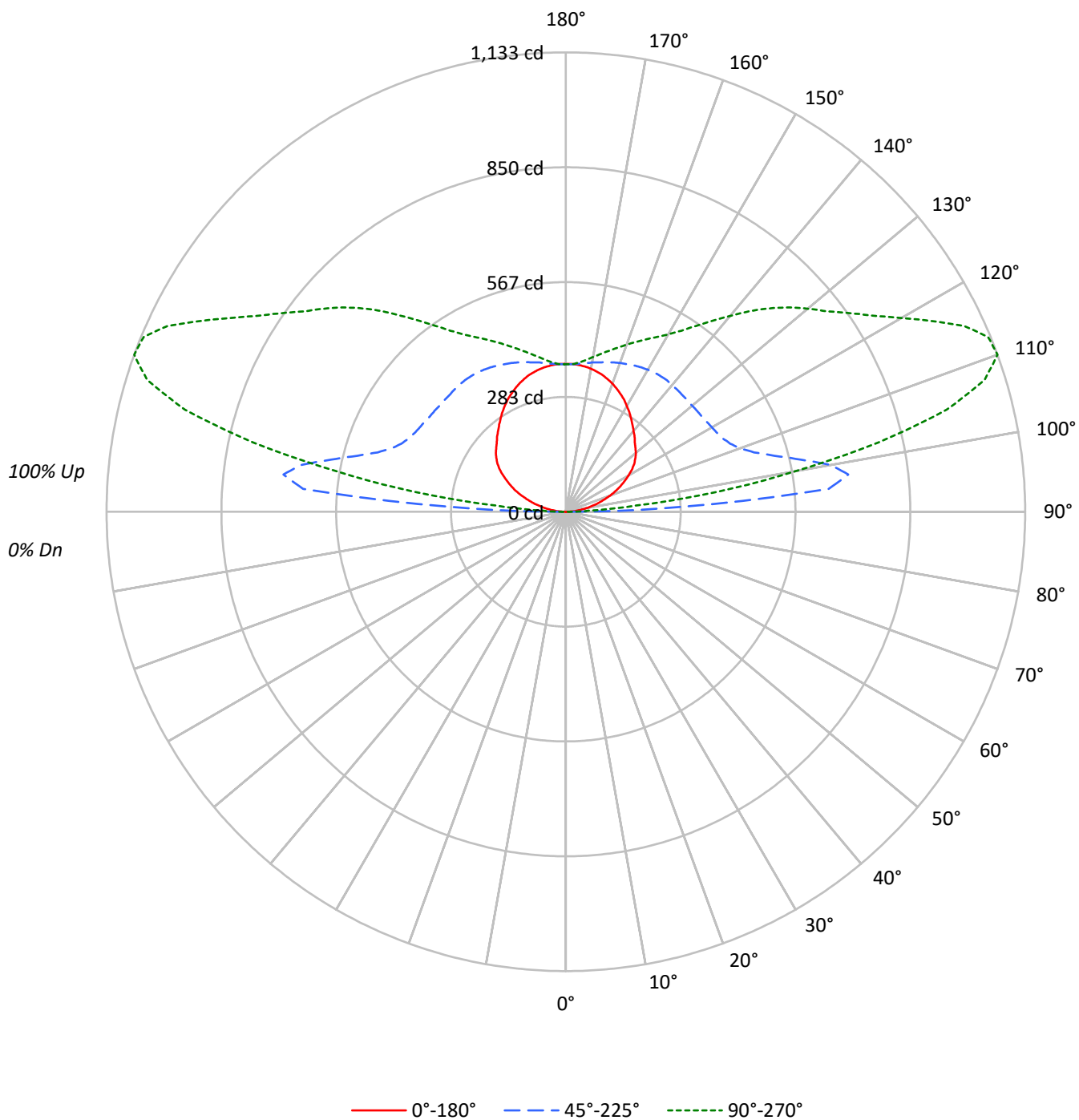
Lumens per Lamp: N/A
Luminaire Lumens: 2737.0 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 21.1
Input Voltage (V):
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

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 0°
Luminance: 0 cd/sqm

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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°	1.4	0.1
90°-100°	264.9	9.7
100°-110°	571.3	20.9
110°-120°	532.6	19.5
120°-130°	431.4	15.8
130°-140°	346.4	12.7
140°-150°	261.3	9.5
150°-160°	184.0	6.7
160°-170°	108.4	4.0
170°-180°	35.3	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.4	0.1
90°-120°	1368.9	50.0
90°-150°	2407.9	88.0
90°-180°	2736.0	100.0
0°-180°	2737.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	7	12	15	17	2
95°	24	72	651	295	173	25
105°	83	116	532	1048	973	87
115°	148	179	427	921	1084	146
125°	206	241	410	733	854	183
135°	241	290	407	614	709	187
145°	280	321	408	508	560	176
155°	320	344	398	450	469	147
165°	350	359	382	405	411	98
175°	364	364	366	371	369	35
180°	364	364	364	364	364	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.7	1.5	2.9	4.4	5.9	7.3	8.1	9.5	10.3	11.7	12.5
92.5°	11.0	13.2	20.6	31.6	47.0	73.4	123.4	207.1	298.1	293.0	236.4
95°	24.2	25.0	30.8	38.9	55.1	88.1	166.7	328.2	530.9	650.6	636.6
97.5°	37.4	38.2	42.6	50.7	65.4	89.6	143.9	268.0	486.8	702.7	795.2
100°	51.4	52.9	55.8	63.9	77.8	99.9	142.5	237.9	423.0	663.1	846.6
102.5°	66.8	67.6	69.8	78.6	91.1	112.3	149.1	225.4	374.5	593.3	815.8
105°	83.0	83.0	86.6	94.0	105.7	126.3	158.6	224.0	346.6	532.4	743.1
107.5°	98.4	99.9	103.5	109.4	121.9	140.2	171.8	229.1	331.9	486.8	674.1
110°	115.3	116.8	119.7	126.3	137.3	156.4	186.5	237.2	326.0	456.7	616.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	132.2	133.6	135.8	142.5	153.5	171.8	200.5	247.5	326.0	439.1	574.2
115°	148.3	149.8	152.0	158.6	169.6	188.0	215.1	257.7	328.2	427.4	545.6
117.5°	163.0	165.2	167.4	174.0	186.5	204.1	229.8	269.5	331.9	420.7	526.5
120°	177.7	179.9	182.8	189.4	201.9	220.3	246.0	281.2	337.8	416.3	511.1
122.5°	193.1	194.6	196.8	203.4	217.3	235.7	261.4	294.4	342.9	412.7	497.8
125°	205.6	207.1	210.7	217.3	231.3	250.4	274.6	306.2	348.8	409.7	486.1
127.5°	215.9	218.1	222.5	230.6	245.3	264.3	287.8	317.2	355.4	408.3	475.1
130°	225.4	227.6	233.5	243.0	258.5	277.6	300.3	328.2	361.3	406.8	464.1
132.5°	232.8	235.7	243.0	254.1	270.2	289.3	312.1	337.8	367.9	406.8	455.3
135°	240.8	243.8	252.6	264.3	279.8	299.6	322.4	346.6	373.8	406.8	448.7
137.5°	251.1	253.3	261.4	273.2	288.6	309.1	329.7	353.2	379.6	407.5	442.0
140°	259.9	262.1	271.0	282.7	296.7	316.5	337.8	359.8	383.3	408.3	437.6
142.5°	270.2	271.7	279.8	291.5	304.7	323.1	342.9	363.5	385.5	409.0	434.0
145°	280.5	282.0	289.3	299.6	312.8	329.7	348.8	367.1	387.0	408.3	430.3
147.5°	291.5	292.2	298.9	308.4	320.1	335.6	352.5	369.3	387.7	406.8	426.6
150°	301.1	302.5	307.7	317.2	327.5	340.0	356.1	371.5	387.7	404.6	422.2
152.5°	311.3	312.1	316.5	324.6	334.1	345.1	359.8	373.0	387.0	401.7	417.1
155°	320.1	320.1	324.6	331.9	339.2	349.5	362.0	373.8	385.5	398.0	411.2
157.5°	328.2	328.2	331.9	338.5	345.1	353.2	364.2	374.5	384.0	394.3	406.1
160°	336.3	335.6	338.5	343.6	349.5	356.1	365.7	374.5	381.8	390.6	399.5
162.5°	342.9	342.2	345.1	349.5	353.9	359.1	367.1	373.8	379.6	386.2	393.6
165°	349.5	348.1	350.3	353.9	356.9	361.3	367.1	373.0	377.4	381.8	387.7
167.5°	353.9	353.2	354.7	356.9	359.1	362.0	367.1	371.5	373.8	377.4	381.8
170°	358.3	357.6	358.3	359.8	361.3	363.5	367.1	370.1	371.5	373.8	376.7
172.5°	361.3	359.8	360.5	362.0	362.7	363.5	366.4	368.6	368.6	369.3	371.5
175°	363.5	362.0	362.7	363.5	363.5	363.5	365.7	367.1	366.4	366.4	367.1
177.5°	364.9	363.5	363.5	364.2	363.5	363.5	364.9	365.7	364.2	364.2	364.9
180°	364.2	364.2	364.2	364.2	364.2	364.2	364.2	364.2	364.2	364.2	364.2

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	13.2	14.0	14.7	16.2	16.2	16.2	16.9	16.9
92.5°	159.3	114.5	85.2	71.2	59.5	57.3	55.8	54.3
95°	528.0	416.3	326.0	264.3	212.2	190.2	184.3	172.6
97.5°	757.1	668.2	577.2	489.0	445.0	406.8	387.0	378.2
100°	903.2	867.2	791.6	715.2	664.5	611.7	584.5	572.7
102.5°	952.4	989.1	962.7	917.1	862.1	828.3	798.2	790.1
105°	919.3	1019.9	1052.2	1044.2	1020.7	996.4	981.7	972.9
107.5°	851.8	984.7	1062.5	1094.8	1101.4	1097.8	1090.4	1083.1
110°	775.4	914.9	1018.5	1080.9	1113.9	1127.9	1133.0	1133.0

TEST NUMBER: P1007917

CATALOG NUMBER: S125IP-B850UB50-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	715.2	845.9	950.9	1027.3	1079.4	1105.8	1120.5	1127.1
115°	666.7	780.5	881.1	961.2	1018.5	1053.7	1074.3	1083.8
117.5°	633.0	733.6	821.7	897.3	955.3	992.0	1012.6	1018.5
120°	606.5	694.6	775.4	840.0	894.4	929.6	949.4	955.3
122.5°	586.7	666.7	736.5	796.0	843.0	874.5	894.4	899.5
125°	567.6	642.5	706.4	759.3	800.4	830.5	846.6	854.0
127.5°	547.8	619.0	679.2	729.1	766.6	793.8	809.2	812.1
130°	529.4	594.0	651.3	699.0	735.8	760.0	774.7	779.1
132.5°	511.1	570.5	621.2	666.7	703.4	727.7	740.9	746.0
135°	495.6	546.3	593.3	635.2	667.5	691.7	704.9	709.3
137.5°	481.7	524.3	564.7	601.4	630.8	653.5	666.0	671.1
140°	470.7	505.2	539.0	569.8	597.0	616.1	627.1	630.8
142.5°	461.1	489.0	516.9	542.6	564.7	580.1	590.4	593.3
145°	453.1	475.8	498.6	518.4	536.0	548.5	556.6	559.5
147.5°	445.0	464.1	482.4	497.8	512.5	522.8	528.0	529.4
150°	438.4	454.5	468.5	481.7	492.7	501.5	504.5	505.2
152.5°	431.0	445.0	457.5	467.0	475.8	482.4	485.4	486.1
155°	423.7	435.4	445.7	453.8	461.1	466.3	468.5	469.2
157.5°	416.3	426.6	434.7	441.3	447.2	451.6	453.8	453.8
160°	409.0	416.3	423.7	428.8	434.0	437.6	439.1	438.4
162.5°	400.9	407.5	413.4	417.8	421.5	424.4	424.4	424.4
165°	393.6	398.7	403.1	406.8	409.7	411.2	411.2	411.2
167.5°	386.2	389.9	393.6	396.5	398.0	399.5	398.7	398.7
170°	380.4	382.6	384.8	386.2	387.7	388.4	388.4	387.7
172.5°	373.8	376.0	377.4	378.2	378.2	379.6	378.2	377.4
175°	369.3	369.3	370.8	370.8	370.8	371.5	370.1	369.3
177.5°	365.7	366.4	366.4	366.4	365.7	366.4	364.2	364.2
180°	364.2	364.2	364.2	364.2	364.2	364.2	364.2	364.2

(END OF REPORT)