

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: P1007587

Luminaire Tested: S123IP-B585UB50-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123IP-B585UB50-4F0-XX-W2A-4
Description: Define 3 Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

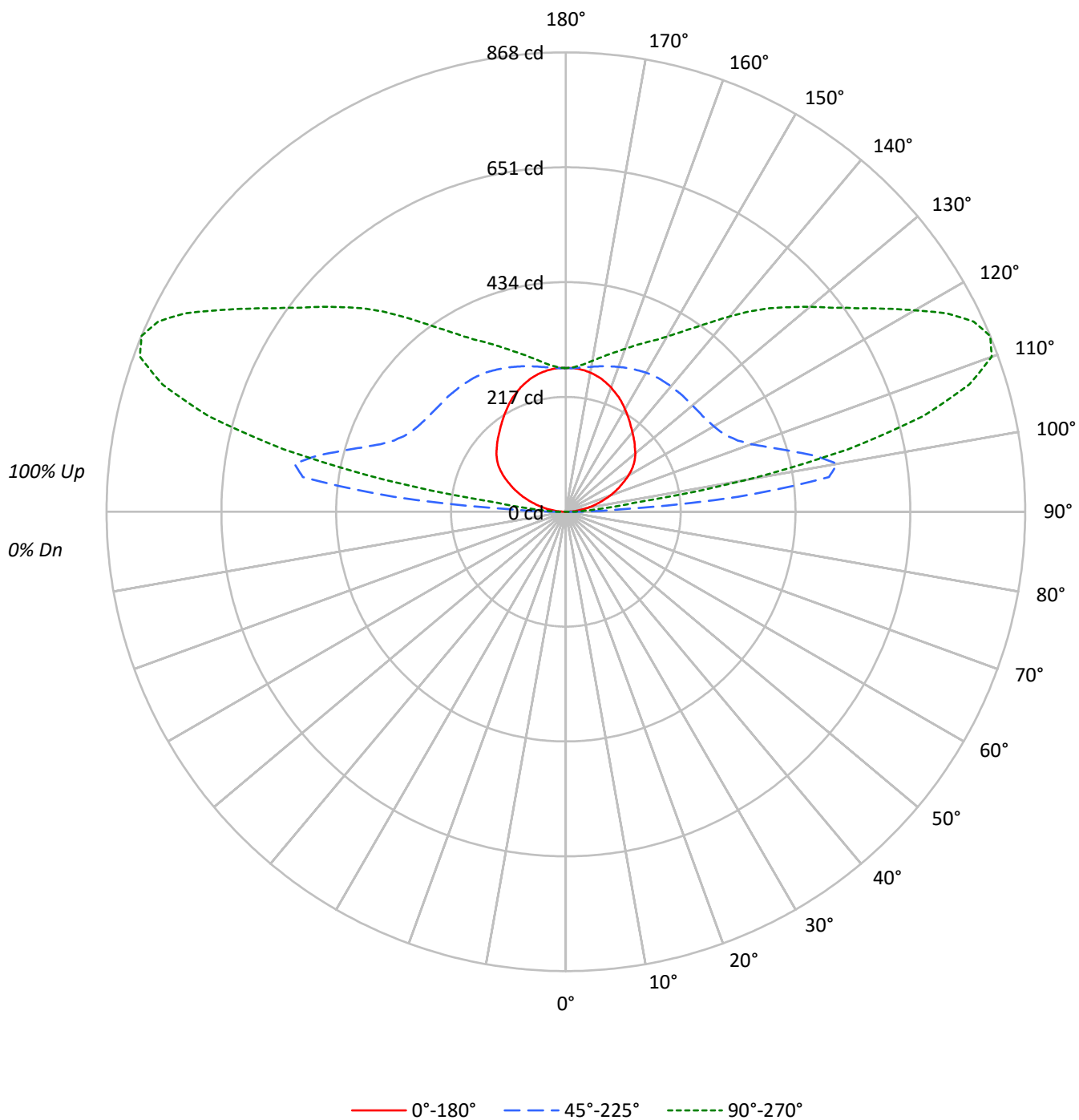
Lumens per Lamp: N/A
Luminaire Lumens: 2044.0 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 15.4
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°	1.5	0.1
90°-100°	147.3	7.2
100°-110°	431.4	21.1
110°-120°	421.3	20.6
120°-130°	335.5	16.4
130°-140°	264.7	13.0
140°-150°	197.5	9.7
150°-160°	137.7	6.7
160°-170°	80.9	4.0
170°-180°	26.3	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.5	0.1
90°-120°	1000.0	48.9
90°-150°	1797.7	87.9
90°-180°	2043.0	100.0
0°-180°	2044.0	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	14	15	16	1
95°	19	61	326	95	64	20
105°	64	94	442	773	699	68
115°	113	140	338	741	850	112
125°	157	185	316	572	671	139
135°	184	219	311	471	544	142
145°	209	240	307	386	425	131
155°	238	257	297	338	352	109
165°	260	267	285	302	307	73
175°	271	271	273	277	276	26
180°	272	272	272	272	272	

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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°	1.1	2.2	3.3	4.9	6.0	7.1	8.8	10.4	12.1	13.7	13.2
92.5°	8.2	12.1	17.6	22.5	28.0	37.9	55.5	84.6	113.2	102.2	76.4
95°	18.7	20.3	26.4	35.7	50.0	71.5	118.2	200.1	290.2	325.9	264.4
97.5°	29.7	30.2	35.2	43.4	57.7	81.3	127.5	222.6	374.3	501.3	518.3
100°	40.7	41.2	45.1	52.8	66.0	87.4	125.9	207.2	351.8	520.5	628.8
102.5°	52.2	53.3	56.6	63.8	75.3	94.5	128.1	194.0	318.8	484.8	634.3
105°	63.8	65.4	68.7	75.3	85.7	102.8	132.5	189.1	293.0	441.9	599.7
107.5°	75.9	77.5	80.8	87.4	97.3	113.2	139.6	188.0	274.3	404.0	550.2
110°	89.0	90.7	93.4	99.5	108.8	124.2	149.0	190.7	264.4	372.7	504.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	101.1	102.8	105.5	111.6	120.9	135.8	158.3	196.2	258.9	351.8	463.9
115°	112.7	114.9	118.2	123.7	133.0	147.9	168.7	202.3	258.3	338.0	433.1
117.5°	124.2	127.0	129.7	134.7	145.1	158.9	179.7	210.0	258.9	328.7	412.8
120°	136.3	138.0	140.7	146.2	156.7	170.4	190.2	218.8	261.1	322.7	397.4
122.5°	146.8	148.4	151.2	157.2	167.1	181.9	201.2	227.0	264.9	318.8	384.8
125°	156.7	157.8	161.1	167.1	177.5	192.4	211.6	235.8	268.8	315.5	374.3
127.5°	164.3	166.0	169.8	175.9	187.4	202.3	221.0	243.0	273.2	313.9	364.4
130°	171.5	173.1	178.1	184.7	196.2	211.1	229.2	250.1	277.6	312.2	356.7
132.5°	177.0	179.2	184.7	192.9	204.5	218.8	236.4	256.7	280.9	311.7	349.6
135°	183.6	185.8	191.8	200.1	211.6	226.5	243.5	262.2	284.2	311.1	343.5
137.5°	189.6	191.8	197.9	206.7	218.2	232.0	248.4	266.6	286.4	310.0	338.0
140°	195.7	198.4	203.9	212.7	223.7	237.5	253.4	269.9	288.6	309.5	333.1
142.5°	202.3	204.5	210.5	218.2	229.2	241.9	257.2	273.2	290.2	308.4	328.7
145°	209.4	211.1	216.0	224.3	233.6	246.2	260.5	275.4	290.8	307.3	324.8
147.5°	216.6	217.7	222.6	229.8	239.1	250.1	263.3	277.0	290.8	305.6	321.0
150°	223.7	224.3	228.7	235.8	243.5	253.4	266.0	277.6	290.8	303.4	317.2
152.5°	230.9	230.9	235.3	241.3	247.9	257.2	267.7	278.7	289.1	300.7	312.8
155°	238.0	238.0	241.3	246.8	252.8	260.5	269.9	278.7	288.0	297.4	308.4
157.5°	243.5	244.0	246.8	251.7	257.2	263.3	271.0	279.2	286.4	294.6	303.4
160°	250.1	250.1	252.3	256.7	260.5	266.0	272.6	279.2	285.3	291.3	298.5
162.5°	255.0	255.0	256.7	260.0	263.3	267.7	273.2	278.7	283.1	288.0	293.5
165°	260.0	259.4	260.5	263.3	265.5	269.3	273.7	277.6	280.9	284.7	289.1
167.5°	263.8	263.3	263.8	266.0	267.7	270.4	273.7	277.0	278.7	281.4	284.7
170°	267.1	266.0	266.6	268.2	269.3	270.4	273.2	275.4	276.5	278.1	280.9
172.5°	269.3	268.8	268.8	269.9	270.4	271.0	273.2	274.8	274.8	275.4	277.0
175°	271.0	270.4	269.9	271.0	271.0	271.5	272.6	273.7	273.2	273.2	274.3
177.5°	272.1	271.5	271.0	271.5	271.5	271.5	272.1	273.2	272.1	271.5	272.1
180°	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5

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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°	13.7	14.3	14.8	15.9	15.4	15.9	16.5	15.9
92.5°	54.4	42.3	36.8	33.0	31.9	29.7	30.2	29.1
95°	197.9	134.1	105.0	85.2	74.8	69.8	66.0	63.8
97.5°	454.6	343.0	270.4	207.8	170.9	150.1	136.9	130.8
100°	648.1	603.5	539.2	461.2	405.7	365.5	344.1	344.6
102.5°	712.4	721.7	690.9	648.6	608.5	578.8	561.8	545.8
105°	714.6	769.5	780.0	765.7	740.4	719.5	701.9	699.2
107.5°	681.6	767.9	810.8	825.6	822.3	812.4	805.3	799.2
110°	629.9	731.0	800.3	838.8	854.2	858.6	857.5	856.4

TEST NUMBER: P1007587

CATALOG NUMBER: S123IP-B585UB50-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	578.8	682.7	762.4	814.6	845.9	861.9	867.4	867.9
115°	534.8	630.5	711.3	771.2	812.4	836.6	847.6	850.3
117.5°	500.7	585.4	659.6	721.7	764.6	791.5	808.0	811.8
120°	474.9	549.1	615.1	670.6	714.0	744.8	758.0	761.3
122.5°	454.6	520.0	579.9	630.5	667.8	694.8	709.6	714.0
125°	437.0	496.9	549.7	593.6	628.8	653.0	666.7	670.6
127.5°	421.0	475.5	523.8	564.5	596.4	617.3	629.9	633.2
130°	406.2	455.7	500.2	537.6	566.7	586.5	598.0	602.4
132.5°	392.5	437.0	477.7	512.8	539.8	559.6	569.4	572.2
135°	380.4	419.4	455.1	486.5	513.4	529.9	539.8	543.6
137.5°	368.8	401.8	433.7	461.7	484.8	501.8	510.1	513.4
140°	358.9	387.0	413.3	437.0	457.9	473.3	482.1	481.5
142.5°	349.6	372.7	394.7	414.4	431.5	444.7	452.4	451.8
145°	342.4	360.6	378.2	394.1	407.8	419.4	423.8	424.9
147.5°	336.4	351.2	366.1	377.6	388.6	396.9	401.3	401.8
150°	329.8	342.4	354.0	364.4	372.7	378.7	382.0	382.0
152.5°	323.8	334.2	344.1	352.3	358.4	363.9	365.5	365.5
155°	317.7	326.5	334.7	341.3	346.3	350.7	351.8	352.3
157.5°	311.1	318.8	325.4	330.9	335.3	338.6	339.7	339.7
160°	305.6	311.7	317.2	321.0	324.8	328.1	328.1	327.6
162.5°	299.0	304.0	308.9	312.2	314.4	317.2	317.2	316.6
165°	293.5	296.8	300.7	303.4	305.6	307.8	307.3	307.3
167.5°	288.6	291.3	293.5	295.7	296.8	298.5	297.9	297.9
170°	283.6	285.3	287.5	288.6	289.1	290.2	289.7	289.7
172.5°	279.2	280.3	282.0	282.5	282.5	283.6	282.5	282.0
175°	275.4	275.9	277.0	277.0	277.0	277.6	277.0	276.5
177.5°	272.6	273.2	273.7	273.7	273.2	273.7	272.6	272.6
180°	271.5	271.5	271.5	271.5	271.5	271.5	271.5	271.5

(END OF REPORT)