

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: P1007698

Luminaire Tested: S124IP-B365UB30-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124IP-B365UB30-4F0-XX-W2A-4
Description: Define 4 Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

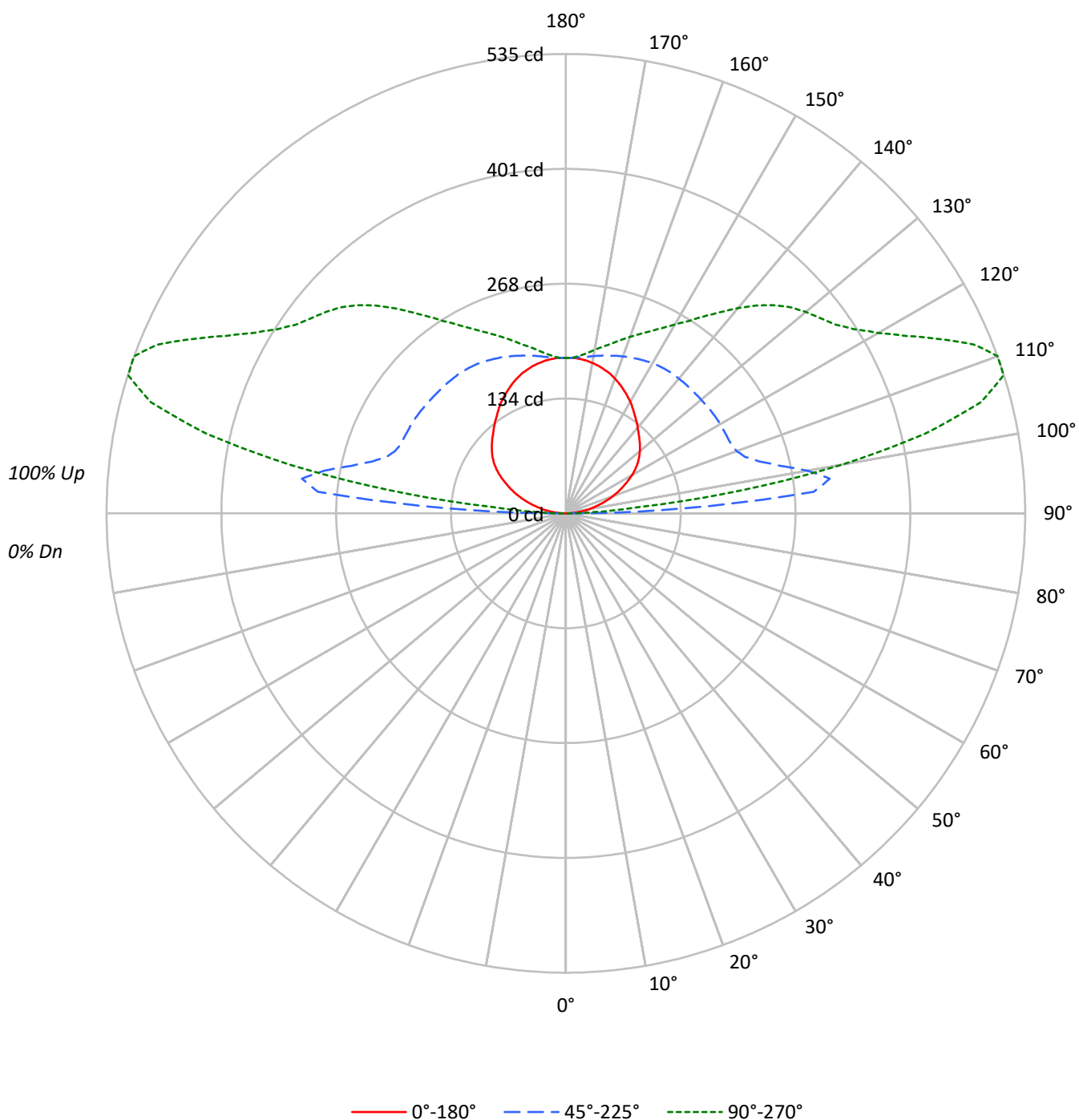
Lumens per Lamp: N/A
Luminaire Lumens: 1319.0 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 9.3
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°	0.7	0.1
90°-100°	131.2	9.9
100°-110°	273.9	20.8
110°-120°	243.5	18.5
120°-130°	204.9	15.5
130°-140°	171.0	13.0
140°-150°	130.5	9.9
150°-160°	91.8	7.0
160°-170°	54.0	4.1
170°-180°	17.6	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.7	0.1
90°-120°	648.5	49.2
90°-150°	1155.0	87.6
90°-180°	1318.0	99.9
0°-180°	1319.0	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°	0	3	6	7	8	1
95°	12	37	290	143	87	13
105°	42	60	233	502	500	44
115°	73	92	208	400	480	73
125°	102	121	207	340	383	91
135°	121	144	205	302	343	94
145°	140	160	204	255	280	88
155°	159	172	198	225	234	73
165°	173	178	190	201	204	49
175°	181	181	182	185	184	17
180°	181	181	181	181	181	

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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°	0.4	1.1	2.1	2.5	2.8	2.8	5.0	5.0	5.7	6.4	6.0
92.5°	5.0	7.1	11.0	16.4	22.8	32.0	54.1	88.5	122.0	139.4	115.9
95°	11.7	12.8	16.4	21.0	29.5	44.5	75.4	133.7	218.7	289.8	298.0
97.5°	19.6	19.6	22.8	27.0	34.5	47.3	71.8	122.0	209.5	310.1	373.7
100°	27.0	27.0	29.5	33.8	40.5	51.9	72.9	113.1	185.6	285.9	376.9
102.5°	34.1	34.8	37.0	40.9	47.3	58.0	76.5	110.6	169.6	255.7	350.3
105°	41.6	42.7	44.5	48.7	55.1	65.4	82.5	112.0	161.8	233.3	316.8
107.5°	49.8	50.5	52.3	56.9	62.9	73.3	88.9	116.3	159.7	218.7	289.5
110°	58.0	58.7	60.5	64.7	71.1	80.7	96.4	121.3	160.4	211.9	269.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	65.8	66.5	68.6	72.5	78.9	88.5	103.5	126.6	162.5	208.7	258.9
115°	73.3	74.3	76.8	80.4	87.1	96.7	110.9	132.3	165.4	208.0	252.8
117.5°	81.1	82.1	84.3	88.2	94.6	104.5	118.1	138.0	168.2	207.7	249.6
120°	88.9	89.6	92.1	96.0	102.1	112.0	125.5	144.0	171.4	207.7	247.1
122.5°	96.0	96.7	99.2	102.8	109.5	119.1	132.6	149.7	174.6	207.3	244.3
125°	102.1	103.5	105.6	109.5	116.3	126.2	139.0	155.4	177.8	207.0	241.1
127.5°	107.7	108.8	111.3	115.6	122.7	132.6	145.1	160.4	180.3	206.3	236.8
130°	112.4	113.8	116.6	122.0	128.7	139.0	151.1	165.0	183.1	205.9	232.9
132.5°	117.0	118.1	122.0	127.0	134.4	144.0	156.1	169.6	185.6	205.5	229.4
135°	121.3	122.7	126.2	132.3	139.8	149.0	160.7	173.5	188.1	205.2	225.8
137.5°	125.5	127.0	130.9	136.6	144.4	153.3	164.3	176.4	189.5	205.2	222.6
140°	130.2	131.2	135.1	141.2	148.6	157.2	167.8	179.2	191.3	204.8	220.1
142.5°	135.1	136.2	139.8	145.4	152.6	160.7	171.0	181.4	192.7	204.8	218.0
145°	139.8	140.8	144.4	149.4	156.1	163.9	173.2	182.8	193.1	204.1	215.5
147.5°	145.1	145.4	148.6	154.0	159.7	166.8	175.7	184.2	193.4	203.1	213.4
150°	150.1	150.4	153.3	157.5	162.9	169.6	177.4	185.3	193.4	202.0	210.9
152.5°	154.7	154.7	157.5	161.4	166.1	172.1	178.9	186.0	192.7	200.2	208.0
155°	159.0	159.3	161.4	165.0	168.9	174.2	180.3	186.3	192.0	198.4	205.2
157.5°	163.2	163.2	165.4	168.2	171.8	176.0	181.4	186.3	191.3	196.6	202.3
160°	167.1	167.1	168.6	171.0	173.9	177.8	182.1	186.3	190.2	194.5	199.1
162.5°	170.7	170.3	171.4	173.5	176.0	178.9	182.8	186.3	189.2	192.4	196.3
165°	173.2	173.2	173.9	175.7	177.4	179.6	182.8	185.6	187.8	190.2	193.1
167.5°	176.0	175.7	176.0	177.4	178.5	180.3	182.8	184.9	186.3	188.1	190.2
170°	177.8	177.4	177.8	178.9	179.6	180.6	182.4	184.2	184.9	186.0	187.4
172.5°	179.6	179.2	179.2	179.9	180.3	181.0	182.1	183.5	183.5	183.8	184.9
175°	180.6	180.3	180.3	180.6	181.0	181.0	181.7	182.8	182.4	182.4	183.1
177.5°	181.4	181.0	180.6	181.0	181.0	181.0	181.4	182.1	181.4	181.4	181.7
180°	181.0	181.0	181.0	181.0	181.0	181.0	181.0	181.0	181.0	181.0	181.0

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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°	6.4	6.8	7.1	7.1	7.5	7.8	7.5	7.5
92.5°	85.7	64.0	50.5	41.6	36.3	33.8	32.4	32.4
95°	263.5	208.4	160.7	126.2	108.8	97.8	91.4	86.8
97.5°	379.4	352.0	312.9	273.1	248.9	227.6	216.9	208.4
100°	428.9	436.0	418.5	392.2	361.3	339.6	328.9	326.1
102.5°	426.4	468.7	479.4	472.2	456.2	442.0	430.6	428.5
105°	398.3	459.8	495.0	509.6	510.3	507.4	502.5	500.3
107.5°	363.8	430.3	479.4	509.2	524.9	531.3	534.1	534.5
110°	333.2	394.7	446.3	485.4	510.6	525.6	532.0	535.2

TEST NUMBER: P1007698

CATALOG NUMBER: S124IP-B365UB30-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	310.8	363.4	411.4	450.6	480.1	498.9	508.5	514.2
115°	297.3	341.0	382.6	416.8	444.9	466.2	477.6	480.4
117.5°	289.5	326.4	360.2	390.1	415.0	433.5	445.6	447.4
120°	284.5	317.6	346.0	371.3	391.5	407.2	416.4	420.3
122.5°	280.2	311.9	337.1	358.4	374.8	387.6	395.1	399.0
125°	275.2	305.8	330.4	349.9	364.1	374.5	381.2	383.3
127.5°	269.5	299.1	323.6	342.1	356.3	365.6	371.3	373.4
130°	262.4	290.5	314.7	333.6	348.1	357.0	362.7	364.9
132.5°	255.0	280.9	304.4	323.2	337.5	347.8	353.1	355.2
135°	248.2	271.3	293.0	310.8	325.0	335.0	340.7	342.8
137.5°	241.8	262.1	280.9	297.3	310.8	321.1	325.7	328.2
140°	236.5	253.2	269.2	284.1	296.6	304.4	309.4	312.2
142.5°	231.5	245.7	258.9	271.3	282.0	289.1	293.4	295.2
145°	226.9	239.0	249.6	259.6	268.5	274.5	278.1	279.9
147.5°	223.0	232.9	241.8	250.0	256.7	262.1	264.9	265.6
150°	219.4	227.6	234.7	241.1	246.8	251.4	253.5	253.9
152.5°	215.5	222.3	228.7	233.6	238.3	241.8	242.9	243.2
155°	211.6	217.3	222.6	226.9	230.4	233.3	234.3	234.3
157.5°	207.3	212.3	216.9	220.5	223.3	225.5	226.2	226.2
160°	203.4	207.3	211.2	214.1	216.2	218.3	218.7	218.7
162.5°	199.5	202.7	205.5	208.0	209.5	211.6	211.9	211.6
165°	195.9	198.1	200.6	202.3	203.8	205.2	204.8	204.5
167.5°	192.4	194.2	196.3	197.4	198.1	199.1	199.1	198.8
170°	189.2	190.2	191.7	192.7	193.4	193.8	193.4	193.4
172.5°	186.3	187.0	187.8	188.5	188.8	189.2	188.8	188.1
175°	183.8	184.2	184.9	184.9	184.9	185.6	184.9	184.2
177.5°	182.1	182.4	182.4	182.8	182.4	182.8	182.1	181.4
180°	181.0	181.0	181.0	181.0	181.0	181.0	181.0	181.0

(END OF REPORT)