

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: P1007530

Luminaire Tested: S123IP-B365UB27-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007530
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-B365UB27-4F0-XX-W2A-4
Description: Define 3 Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

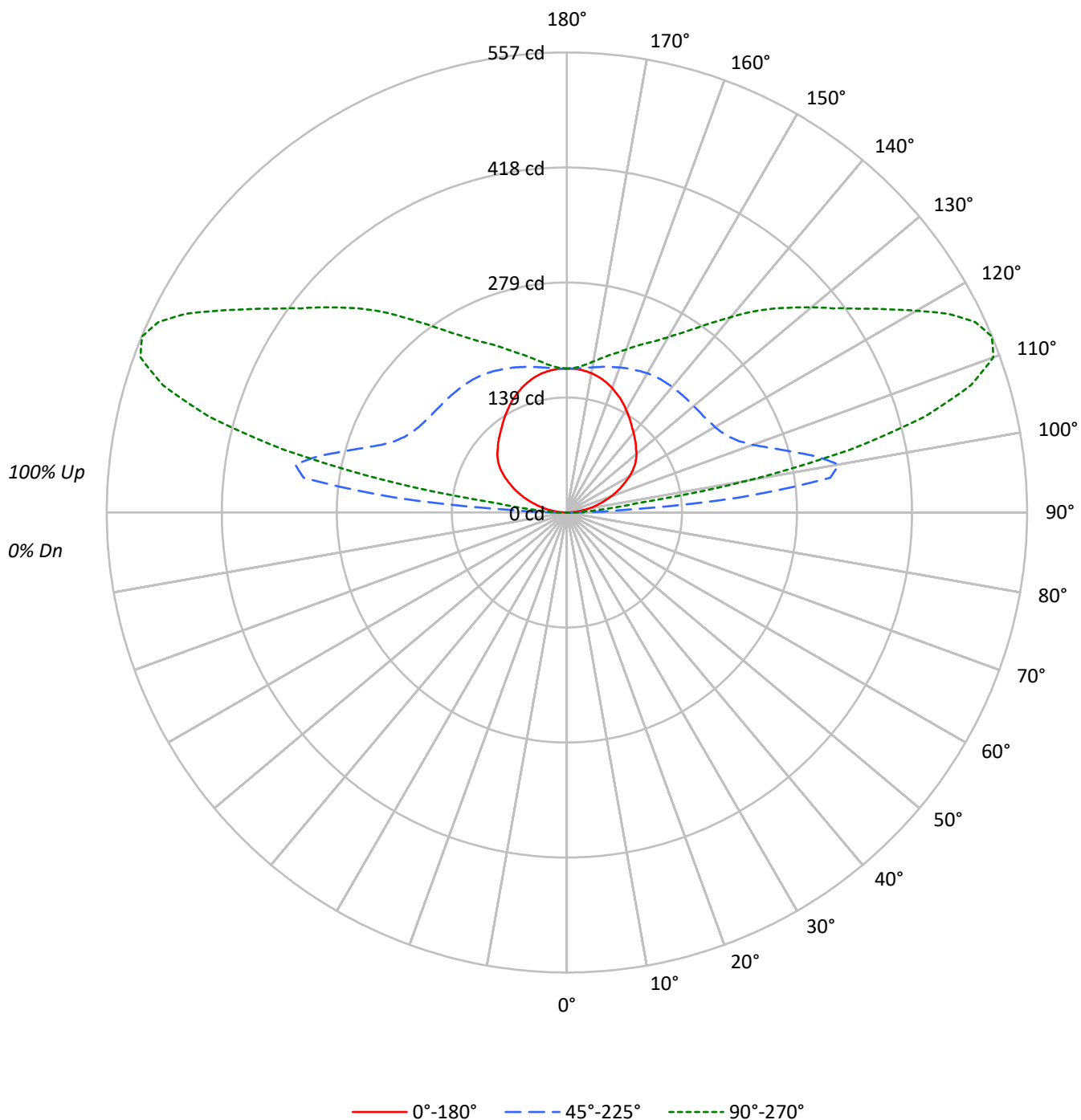
Lumens per Lamp: N/A
Luminaire Lumens: 1311.0 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 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°	1.0	0.1
90°-100°	94.5	7.2
100°-110°	276.7	21.1
110°-120°	270.2	20.6
120°-130°	215.2	16.4
130°-140°	169.8	12.9
140°-150°	126.6	9.7
150°-160°	88.3	6.7
160°-170°	51.9	4.0
170°-180°	16.9	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.0	0.1
90°-120°	641.4	48.9
90°-150°	1153.0	87.9
90°-180°	1310.0	99.9
0°-180°	1311.0	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	4	9	10	10	1
95°	12	39	209	61	41	13
105°	41	60	283	496	448	43
115°	72	90	217	475	545	72
125°	100	119	202	367	430	89
135°	118	140	200	302	349	91
145°	134	154	197	248	272	84
155°	153	165	191	217	226	70
165°	167	172	183	194	197	47
175°	174	174	175	178	177	17
180°	174	174	174	174	174	

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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	1.4	2.1	3.2	3.9	4.6	5.6	6.7	7.8	8.8	8.5
92.5°	5.3	7.8	11.3	14.5	18.0	24.3	35.6	54.3	72.6	65.6	49.0
95°	12.0	13.0	16.9	22.9	32.1	45.8	75.8	128.3	186.1	209.1	169.6
97.5°	19.0	19.4	22.6	27.9	37.0	52.2	81.8	142.8	240.1	321.5	332.5
100°	26.1	26.4	28.9	33.8	42.3	56.1	80.7	132.9	225.6	333.9	403.3
102.5°	33.5	34.2	36.3	40.9	48.3	60.6	82.1	124.4	204.5	310.9	406.8
105°	40.9	42.0	44.1	48.3	55.0	65.9	85.0	121.3	187.9	283.4	384.6
107.5°	48.7	49.7	51.8	56.1	62.4	72.6	89.5	120.6	175.9	259.1	352.9
110°	57.1	58.2	59.9	63.8	69.8	79.7	95.5	122.3	169.6	239.0	323.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	64.9	65.9	67.7	71.6	77.6	87.1	101.5	125.9	166.0	225.6	297.5
115°	72.3	73.7	75.8	79.3	85.3	94.8	108.2	129.7	165.7	216.8	277.8
117.5°	79.7	81.4	83.2	86.4	93.1	101.9	115.3	134.7	166.0	210.8	264.8
120°	87.4	88.5	90.3	93.8	100.5	109.3	122.0	140.3	167.5	206.9	254.9
122.5°	94.1	95.2	97.0	100.8	107.2	116.7	129.0	145.6	169.9	204.5	246.8
125°	100.5	101.2	103.3	107.2	113.9	123.4	135.7	151.2	172.4	202.4	240.1
127.5°	105.4	106.5	108.9	112.8	120.2	129.7	141.7	155.8	175.2	201.3	233.7
130°	110.0	111.1	114.2	118.5	125.9	135.4	147.0	160.4	178.0	200.2	228.8
132.5°	113.5	114.9	118.5	123.7	131.1	140.3	151.6	164.6	180.2	199.9	224.2
135°	117.8	119.2	123.0	128.3	135.7	145.2	156.2	168.2	182.3	199.5	220.3
137.5°	121.6	123.0	126.9	132.6	140.0	148.8	159.4	171.0	183.7	198.8	216.8
140°	125.5	127.3	130.8	136.4	143.5	152.3	162.5	173.1	185.1	198.5	213.6
142.5°	129.7	131.1	135.0	140.0	147.0	155.1	165.0	175.2	186.1	197.8	210.8
145°	134.3	135.4	138.6	143.8	149.8	157.9	167.1	176.6	186.5	197.1	208.4
147.5°	138.9	139.6	142.8	147.4	153.4	160.4	168.9	177.7	186.5	196.0	205.9
150°	143.5	143.8	146.7	151.2	156.2	162.5	170.6	178.0	186.5	194.6	203.4
152.5°	148.1	148.1	150.9	154.8	159.0	165.0	171.7	178.7	185.4	192.8	200.6
155°	152.7	152.7	154.8	158.3	162.2	167.1	173.1	178.7	184.7	190.7	197.8
157.5°	156.2	156.5	158.3	161.5	165.0	168.9	173.8	179.1	183.7	189.0	194.6
160°	160.4	160.4	161.8	164.6	167.1	170.6	174.9	179.1	183.0	186.8	191.4
162.5°	163.6	163.6	164.6	166.8	168.9	171.7	175.2	178.7	181.6	184.7	188.3
165°	166.8	166.4	167.1	168.9	170.3	172.7	175.6	178.0	180.2	182.6	185.4
167.5°	169.2	168.9	169.2	170.6	171.7	173.5	175.6	177.7	178.7	180.5	182.6
170°	171.3	170.6	171.0	172.0	172.7	173.5	175.2	176.6	177.3	178.4	180.2
172.5°	172.7	172.4	172.4	173.1	173.5	173.8	175.2	176.3	176.3	176.6	177.7
175°	173.8	173.5	173.1	173.8	173.8	174.2	174.9	175.6	175.2	175.2	175.9
177.5°	174.5	174.2	173.8	174.2	174.2	174.2	174.5	175.2	174.5	174.2	174.5
180°	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2

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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°	8.8	9.2	9.5	10.2	9.9	10.2	10.6	10.2
92.5°	34.9	27.1	23.6	21.2	20.4	19.0	19.4	18.7
95°	126.9	86.0	67.3	54.6	47.9	44.8	42.3	40.9
97.5°	291.6	220.0	173.5	133.3	109.6	96.2	87.8	83.9
100°	415.7	387.1	345.8	295.8	260.2	234.4	220.7	221.0
102.5°	456.9	462.9	443.2	416.0	390.3	371.2	360.3	350.1
105°	458.3	493.6	500.3	491.1	474.9	461.5	450.2	448.4
107.5°	437.2	492.5	520.0	529.5	527.4	521.1	516.5	512.6
110°	404.0	468.9	513.3	538.0	547.9	550.7	550.0	549.3

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	371.2	437.9	489.0	522.5	542.6	552.8	556.3	556.7
115°	343.0	404.4	456.2	494.6	521.1	536.6	543.6	545.4
117.5°	321.2	375.5	423.1	462.9	490.4	507.7	518.2	520.7
120°	304.6	352.2	394.5	430.1	458.0	477.7	486.2	488.3
122.5°	291.6	333.5	371.9	404.4	428.3	445.6	455.1	458.0
125°	280.3	318.7	352.5	380.8	403.3	418.8	427.6	430.1
127.5°	270.1	305.0	336.0	362.1	382.5	395.9	404.0	406.1
130°	260.5	292.3	320.8	344.8	363.5	376.2	383.6	386.4
132.5°	251.7	280.3	306.4	328.9	346.2	358.9	365.2	367.0
135°	244.0	269.0	291.9	312.0	329.3	339.9	346.2	348.7
137.5°	236.6	257.7	278.2	296.1	310.9	321.9	327.2	329.3
140°	230.2	248.2	265.1	280.3	293.7	303.5	309.2	308.8
142.5°	224.2	239.0	253.1	265.8	276.7	285.2	290.1	289.8
145°	219.6	231.3	242.6	252.8	261.6	269.0	271.8	272.5
147.5°	215.8	225.3	234.8	242.2	249.3	254.5	257.4	257.7
150°	211.5	219.6	227.0	233.7	239.0	242.9	245.0	245.0
152.5°	207.7	214.3	220.7	226.0	229.9	233.4	234.4	234.4
155°	203.8	209.4	214.7	218.9	222.1	224.9	225.6	226.0
157.5°	199.5	204.5	208.7	212.2	215.1	217.2	217.9	217.9
160°	196.0	199.9	203.4	205.9	208.4	210.5	210.5	210.1
162.5°	191.8	195.0	198.1	200.2	201.7	203.4	203.4	203.1
165°	188.3	190.4	192.8	194.6	196.0	197.4	197.1	197.1
167.5°	185.1	186.8	188.3	189.7	190.4	191.4	191.1	191.1
170°	181.9	183.0	184.4	185.1	185.4	186.1	185.8	185.8
172.5°	179.1	179.8	180.9	181.2	181.2	181.9	181.2	180.9
175°	176.6	177.0	177.7	177.7	177.7	178.0	177.7	177.3
177.5°	174.9	175.2	175.6	175.6	175.2	175.6	174.9	174.9
180°	174.2	174.2	174.2	174.2	174.2	174.2	174.2	174.2

(END OF REPORT)