

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: P1007614

Luminaire Tested: S123IP-B805UB40-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007614
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-B805UB40-4F0-XX-W2A-4
Description: Define 3 Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

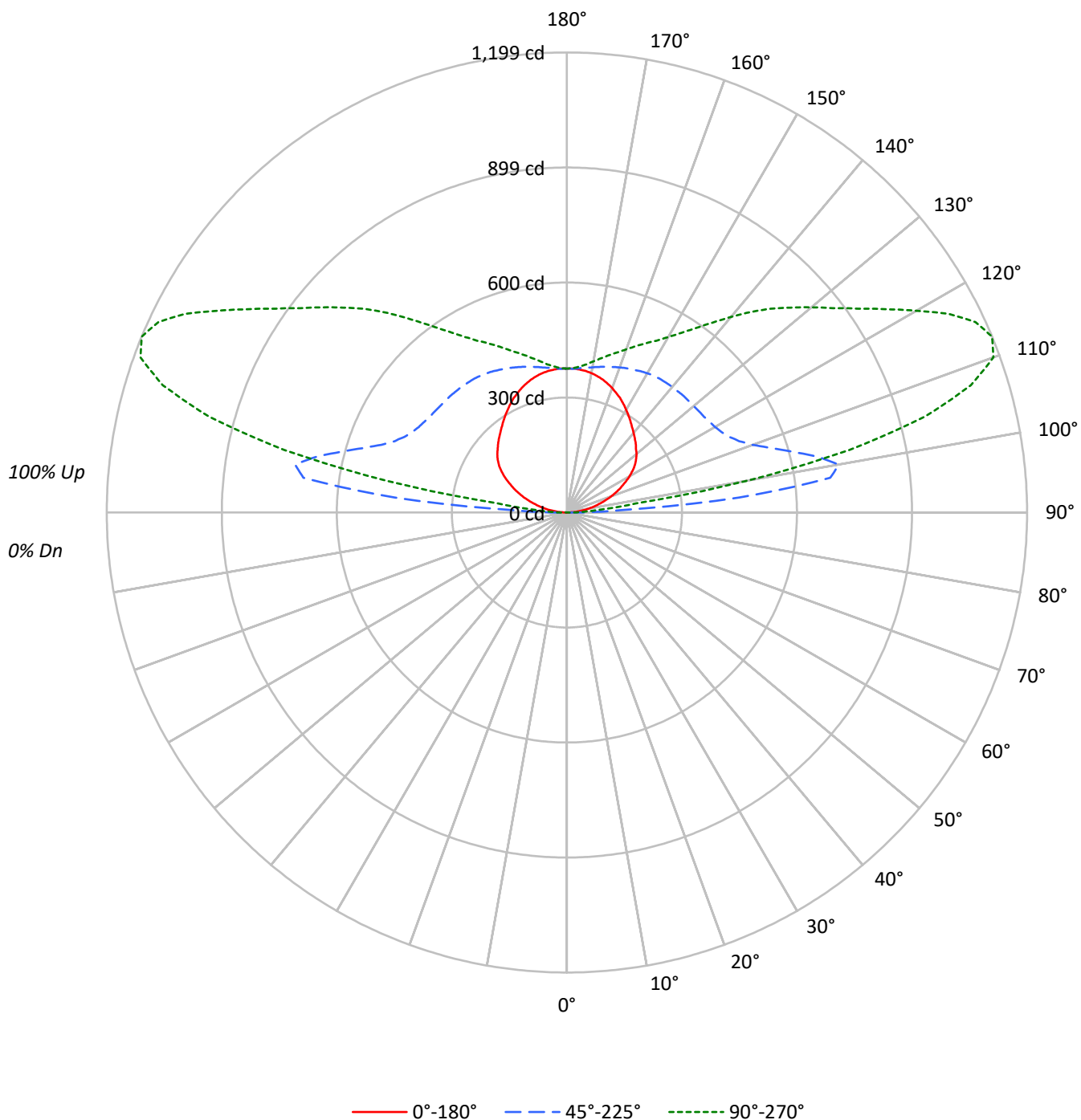
Lumens per Lamp: N/A
Luminaire Lumens: 2823.0 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 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°	2.1	0.1
90°-100°	203.5	7.2
100°-110°	595.8	21.1
110°-120°	581.8	20.6
120°-130°	463.4	16.4
130°-140°	365.6	12.9
140°-150°	272.7	9.7
150°-160°	190.2	6.7
160°-170°	111.7	4.0
170°-180°	36.3	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.1	0.1
90°-120°	1381.1	48.9
90°-150°	2482.7	87.9
90°-180°	2821.0	99.9
0°-180°	2823.0	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°	2	9	19	21	22	2
95°	26	84	450	131	88	27
105°	88	130	610	1067	966	94
115°	156	194	467	1024	1174	154
125°	216	255	436	790	926	192
135°	254	303	430	650	751	196
145°	289	331	424	533	587	181
155°	329	354	411	467	487	151
165°	359	369	393	417	424	101
175°	374	375	377	383	382	36
180°	375	375	375	375	375	



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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°	1.5	3.0	4.6	6.8	8.4	9.9	12.1	14.4	16.7	19.0	18.2
92.5°	11.4	16.7	24.3	31.1	38.7	52.4	76.7	116.9	156.4	141.2	105.5
95°	25.8	28.1	36.4	49.3	69.1	98.7	163.2	276.3	400.8	450.2	365.1
97.5°	41.0	41.8	48.6	60.0	79.7	112.4	176.1	307.5	517.0	692.3	715.9
100°	56.2	56.9	62.2	72.9	91.1	120.7	173.8	286.2	485.9	718.9	868.5
102.5°	72.1	73.6	78.2	88.1	104.0	130.6	176.9	268.0	440.3	669.6	876.1
105°	88.1	90.3	94.9	104.0	118.4	142.0	183.0	261.1	404.6	610.4	828.2
107.5°	104.8	107.0	111.6	120.7	134.4	156.4	192.8	259.6	378.8	558.0	759.9
110°	123.0	125.3	129.1	137.4	150.3	171.6	205.7	263.4	365.1	514.7	696.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	139.7	142.0	145.8	154.1	167.0	187.5	218.6	271.0	357.6	485.9	640.7
115°	155.6	158.7	163.2	170.8	183.7	204.2	233.1	279.4	356.8	466.9	598.2
117.5°	171.6	175.4	179.2	186.0	200.4	219.4	248.2	290.0	357.6	454.0	570.1
120°	188.3	190.5	194.3	201.9	216.4	235.3	262.7	302.1	360.6	445.6	548.9
122.5°	202.7	205.0	208.8	217.1	230.8	251.3	277.8	313.5	365.9	440.3	531.4
125°	216.4	217.9	222.4	230.8	245.2	265.7	292.3	325.7	371.2	435.7	517.0
127.5°	227.0	229.3	234.6	242.9	258.9	279.4	305.2	335.5	377.3	433.5	503.3
130°	236.9	239.1	246.0	255.1	271.0	291.5	316.6	345.4	383.4	431.2	492.7
132.5°	244.4	247.5	255.1	266.5	282.4	302.1	326.4	354.5	387.9	430.4	482.8
135°	253.6	256.6	264.9	276.3	292.3	312.8	336.3	362.1	392.5	429.7	474.5
137.5°	261.9	264.9	273.3	285.4	301.4	320.4	343.1	368.2	395.5	428.2	466.9
140°	270.3	274.1	281.6	293.8	309.0	328.0	350.0	372.7	398.6	427.4	460.0
142.5°	279.4	282.4	290.8	301.4	316.6	334.0	355.3	377.3	400.8	425.9	454.0
145°	289.2	291.5	298.3	309.7	322.6	340.1	359.8	380.3	401.6	424.4	448.7
147.5°	299.1	300.6	307.5	317.3	330.2	345.4	363.6	382.6	401.6	422.1	443.3
150°	309.0	309.7	315.8	325.7	336.3	350.0	367.4	383.4	401.6	419.0	438.0
152.5°	318.8	318.8	324.9	333.3	342.4	355.3	369.7	384.9	399.3	415.3	432.0
155°	328.7	328.7	333.3	340.9	349.2	359.8	372.7	384.9	397.8	410.7	425.9
157.5°	336.3	337.1	340.9	347.7	355.3	363.6	374.3	385.6	395.5	406.9	419.0
160°	345.4	345.4	348.4	354.5	359.8	367.4	376.5	385.6	394.0	402.3	412.2
162.5°	352.2	352.2	354.5	359.1	363.6	369.7	377.3	384.9	391.0	397.8	405.4
165°	359.1	358.3	359.8	363.6	366.7	372.0	378.1	383.4	387.9	393.2	399.3
167.5°	364.4	363.6	364.4	367.4	369.7	373.5	378.1	382.6	384.9	388.7	393.2
170°	368.9	367.4	368.2	370.5	372.0	373.5	377.3	380.3	381.9	384.1	387.9
172.5°	372.0	371.2	371.2	372.7	373.5	374.3	377.3	379.6	379.6	380.3	382.6
175°	374.3	373.5	372.7	374.3	374.3	375.0	376.5	378.1	377.3	377.3	378.8
177.5°	375.8	375.0	374.3	375.0	375.0	375.0	375.8	377.3	375.8	375.0	375.8
180°	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0

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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°	19.0	19.7	20.5	22.0	21.3	22.0	22.8	22.0
92.5°	75.2	58.5	50.9	45.5	44.0	41.0	41.8	40.2
95°	273.3	185.2	145.0	117.7	103.2	96.4	91.1	88.1
97.5°	627.8	473.7	373.5	287.0	236.1	207.2	189.0	180.7
100°	895.0	833.5	744.7	636.9	560.2	504.8	475.2	476.0
102.5°	983.9	996.8	954.2	895.8	840.4	799.4	775.8	753.8
105°	986.9	1062.8	1077.2	1057.5	1022.6	993.7	969.4	965.6
107.5°	941.3	1060.5	1119.7	1140.2	1135.7	1122.0	1112.1	1103.8
110°	870.0	1009.7	1105.3	1158.5	1179.7	1185.8	1184.3	1182.7

TEST NUMBER: P1007614

CATALOG NUMBER: S123IP-B805UB40-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	799.4	942.9	1052.9	1125.1	1168.3	1190.3	1197.9	1198.7
115°	738.6	870.7	982.3	1065.1	1122.0	1155.4	1170.6	1174.4
117.5°	691.6	808.5	911.0	996.8	1056.0	1093.2	1115.9	1121.3
120°	655.9	758.4	849.5	926.2	986.1	1028.6	1046.9	1051.4
122.5°	627.8	718.2	800.9	870.7	922.4	959.6	980.1	986.1
125°	603.5	686.3	759.1	819.9	868.5	901.9	920.8	926.2
127.5°	581.5	656.7	723.5	779.6	823.7	852.5	870.0	874.5
130°	561.0	629.3	690.8	742.4	782.7	810.0	826.0	832.0
132.5°	542.0	603.5	659.7	708.3	745.5	772.8	786.5	790.3
135°	525.3	579.2	628.6	671.8	709.0	731.8	745.5	750.8
137.5°	509.4	554.9	599.0	637.7	669.6	693.1	704.5	709.0
140°	495.7	534.4	570.9	603.5	632.4	653.6	665.8	665.0
142.5°	482.8	514.7	545.1	572.4	595.9	614.1	624.8	624.0
145°	472.9	498.0	522.3	544.3	563.3	579.2	585.3	586.8
147.5°	464.6	485.1	505.6	521.5	536.7	548.1	554.2	554.9
150°	455.5	472.9	488.9	503.3	514.7	523.1	527.6	527.6
152.5°	447.1	461.6	475.2	486.6	495.0	502.6	504.8	504.8
155°	438.8	450.9	462.3	471.4	478.3	484.3	485.9	486.6
157.5°	429.7	440.3	449.4	457.0	463.1	467.6	469.2	469.2
160°	422.1	430.4	438.0	443.3	448.7	453.2	453.2	452.5
162.5°	413.0	419.8	426.6	431.2	434.2	438.0	438.0	437.3
165°	405.4	409.9	415.3	419.0	422.1	425.1	424.4	424.4
167.5°	398.6	402.3	405.4	408.4	409.9	412.2	411.5	411.5
170°	391.7	394.0	397.0	398.6	399.3	400.8	400.1	400.1
172.5°	385.6	387.2	389.4	390.2	390.2	391.7	390.2	389.4
175°	380.3	381.1	382.6	382.6	382.6	383.4	382.6	381.9
177.5°	376.5	377.3	378.1	378.1	377.3	378.1	376.5	376.5
180°	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0

(END OF REPORT)