

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: P1007638

Luminaire Tested: S124IP-B1035UB30-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007638
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-B1035UB30-4F0-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

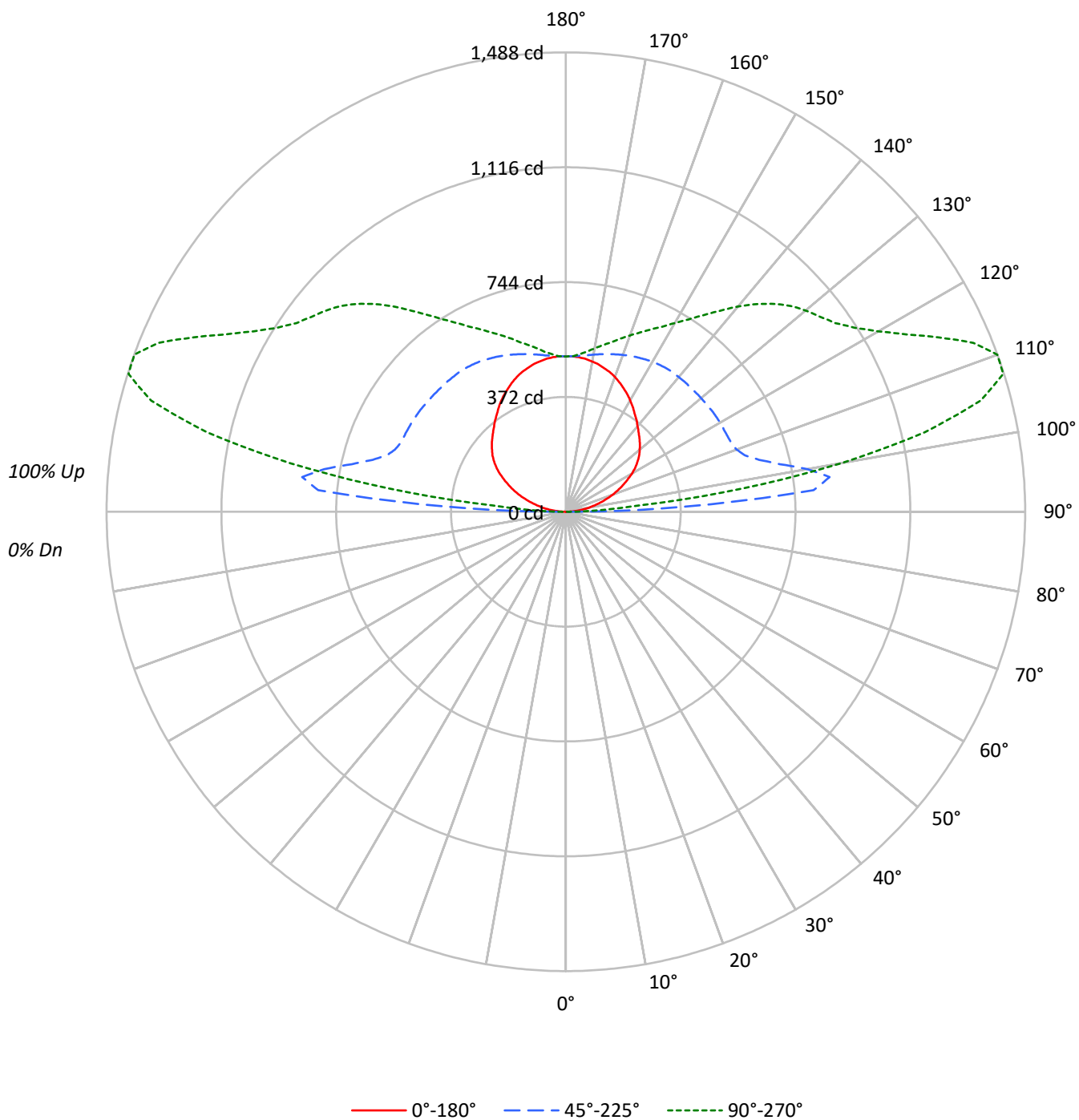
Lumens per Lamp: N/A
Luminaire Lumens: 3666.0 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 28.5
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°	2.0	0.1
90°-100°	364.6	9.9
100°-110°	761.2	20.8
110°-120°	676.7	18.5
120°-130°	569.6	15.5
130°-140°	475.2	13.0
140°-150°	362.8	9.9
150°-160°	255.1	7.0
160°-170°	150.0	4.1
170°-180°	48.8	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.0	0.1
90°-120°	1802.5	49.2
90°-150°	3210.1	87.6
90°-180°	3664.0	99.9
0°-180°	3666.0	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	8	18	20	21	2
95°	33	103	806	399	241	36
105°	116	168	648	1396	1391	123
115°	204	255	578	1111	1335	202
125°	284	337	575	945	1066	253
135°	337	401	570	839	953	260
145°	388	445	567	708	778	244
155°	442	477	552	625	651	204
165°	481	496	529	560	568	136
175°	502	503	507	514	512	48
180°	503	503	503	503	503	

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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°	1.0	3.0	5.9	6.9	7.9	7.9	13.8	13.8	15.8	17.8	16.8
92.5°	13.8	19.8	30.6	45.5	63.3	89.0	150.2	246.1	339.0	387.4	322.2
95°	32.6	35.6	45.5	58.3	82.0	123.5	209.5	371.6	607.8	805.5	828.2
97.5°	54.4	54.4	63.3	75.1	95.9	131.5	199.6	339.0	582.1	861.8	1038.8
100°	75.1	75.1	82.0	93.9	112.7	144.3	202.6	314.3	515.9	794.6	1047.7
102.5°	94.9	96.9	102.8	113.7	131.5	161.1	212.5	307.4	471.4	710.6	973.5
105°	115.6	118.6	123.5	135.4	153.2	181.9	229.3	311.3	449.7	648.4	880.6
107.5°	138.4	140.3	145.3	158.1	174.9	203.6	247.1	323.2	443.8	607.8	804.5
110°	161.1	163.1	168.0	179.9	197.7	224.4	267.8	337.0	445.7	589.1	750.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	182.8	184.8	190.8	201.6	219.4	246.1	287.6	351.9	451.7	580.2	719.5
115°	203.6	206.6	213.5	223.4	242.1	268.8	308.4	367.7	459.6	578.2	702.7
117.5°	225.3	228.3	234.2	245.1	262.9	290.6	328.1	383.5	467.5	577.2	693.8
120°	247.1	249.1	256.0	266.9	283.7	311.3	348.9	400.3	476.4	577.2	686.9
122.5°	266.9	268.8	275.8	285.6	304.4	331.1	368.7	416.1	485.3	576.2	679.0
125°	283.7	287.6	293.5	304.4	323.2	350.9	386.4	431.9	494.2	575.2	670.1
127.5°	299.5	302.4	309.4	321.2	341.0	368.7	403.3	445.7	501.1	573.2	658.2
130°	312.3	316.3	324.2	339.0	357.8	386.4	420.1	458.6	509.0	572.3	647.4
132.5°	325.2	328.1	339.0	352.8	373.6	400.3	433.9	471.4	515.9	571.3	637.5
135°	337.0	341.0	350.9	367.7	388.4	414.1	446.7	482.3	522.8	570.3	627.6
137.5°	348.9	352.8	363.7	379.5	401.3	426.0	456.6	490.2	526.8	570.3	618.7
140°	361.7	364.7	375.6	392.4	413.1	436.9	466.5	498.1	531.7	569.3	611.8
142.5°	375.6	378.5	388.4	404.2	424.0	446.7	475.4	504.1	535.7	569.3	605.9
145°	388.4	391.4	401.3	415.1	433.9	455.6	481.3	508.0	536.7	567.3	598.9
147.5°	403.3	404.2	413.1	428.0	443.8	463.5	488.2	512.0	537.7	564.4	593.0
150°	417.1	418.1	426.0	437.8	452.7	471.4	493.2	514.9	537.7	561.4	586.1
152.5°	429.9	429.9	437.8	448.7	461.6	478.4	497.1	516.9	535.7	556.4	578.2
155°	441.8	442.8	448.7	458.6	469.5	484.3	501.1	517.9	533.7	551.5	570.3
157.5°	453.7	453.7	459.6	467.5	477.4	489.2	504.1	517.9	531.7	546.6	562.4
160°	464.5	464.5	468.5	475.4	483.3	494.2	506.0	517.9	528.8	540.6	553.5
162.5°	474.4	473.4	476.4	482.3	489.2	497.1	508.0	517.9	525.8	534.7	545.6
165°	481.3	481.3	483.3	488.2	493.2	499.1	508.0	515.9	521.9	528.8	536.7
167.5°	489.2	488.2	489.2	493.2	496.2	501.1	508.0	513.9	517.9	522.8	528.8
170°	494.2	493.2	494.2	497.1	499.1	502.1	507.0	512.0	513.9	516.9	520.9
172.5°	499.1	498.1	498.1	500.1	501.1	503.1	506.0	510.0	510.0	511.0	513.9
175°	502.1	501.1	501.1	502.1	503.1	503.1	505.1	508.0	507.0	507.0	509.0
177.5°	504.1	503.1	502.1	503.1	503.1	503.1	504.1	506.0	504.1	504.1	505.1
180°	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1

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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°	17.8	18.8	19.8	19.8	20.8	21.7	20.8	20.8
92.5°	238.2	177.9	140.3	115.6	100.8	93.9	89.9	89.9
95°	732.4	579.2	446.7	350.9	302.4	271.8	254.0	241.2
97.5°	1054.6	978.5	869.8	759.1	691.9	632.5	602.9	579.2
100°	1192.0	1211.7	1163.3	1090.2	1004.2	943.9	914.2	906.3
102.5°	1185.0	1302.7	1332.3	1312.5	1268.1	1228.5	1196.9	1191.0
105°	1107.0	1277.9	1375.8	1416.3	1418.3	1410.4	1396.6	1390.6
107.5°	1011.1	1195.9	1332.3	1415.3	1458.8	1476.6	1484.5	1485.5
110°	926.1	1097.1	1240.4	1349.1	1419.3	1460.8	1478.6	1487.5

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	863.8	1010.1	1143.5	1252.3	1334.3	1386.7	1413.4	1429.2
115°	826.3	947.8	1063.5	1158.4	1236.4	1295.7	1327.4	1335.3
117.5°	804.5	907.3	1001.2	1084.2	1153.4	1204.8	1238.4	1243.4
120°	790.7	882.6	961.7	1031.8	1088.2	1131.7	1157.4	1168.2
122.5°	778.8	866.8	937.0	996.3	1041.7	1077.3	1098.1	1108.9
125°	765.0	850.0	918.2	972.5	1012.1	1040.7	1059.5	1065.5
127.5°	749.2	831.2	899.4	950.8	990.3	1016.0	1031.8	1037.8
130°	729.4	807.5	874.7	927.1	967.6	992.3	1008.1	1014.1
132.5°	708.7	780.8	846.0	898.4	938.0	966.6	981.4	987.4
135°	689.9	754.1	814.4	863.8	903.4	931.0	946.8	952.8
137.5°	672.1	728.4	780.8	826.3	863.8	892.5	905.3	912.3
140°	657.3	703.7	748.2	789.7	824.3	846.0	859.9	867.8
142.5°	643.4	683.0	719.5	754.1	783.8	803.5	815.4	820.3
145°	630.6	664.2	693.8	721.5	746.2	763.0	772.9	777.8
147.5°	619.7	647.4	672.1	694.8	713.6	728.4	736.3	738.3
150°	609.8	632.5	652.3	670.1	685.9	698.8	704.7	705.7
152.5°	598.9	617.7	635.5	649.4	662.2	672.1	675.0	676.0
155°	588.1	603.9	618.7	630.6	640.5	648.4	651.3	651.3
157.5°	576.2	590.1	602.9	612.8	620.7	626.6	628.6	628.6
160°	565.3	576.2	587.1	595.0	600.9	606.9	607.8	607.8
162.5°	554.5	563.4	571.3	578.2	582.1	588.1	589.1	588.1
165°	544.6	550.5	557.4	562.4	566.3	570.3	569.3	568.3
167.5°	534.7	539.6	545.6	548.5	550.5	553.5	553.5	552.5
170°	525.8	528.8	532.7	535.7	537.7	538.7	537.7	537.7
172.5°	517.9	519.9	521.9	523.8	524.8	525.8	524.8	522.8
175°	511.0	512.0	513.9	513.9	513.9	515.9	513.9	512.0
177.5°	506.0	507.0	507.0	508.0	507.0	508.0	506.0	504.1
180°	503.1	503.1	503.1	503.1	503.1	503.1	503.1	503.1

(END OF REPORT)