

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: P1007644

Luminaire Tested: S124IP-B1035UB40-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007644
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-B1035UB40-4F0-XX-W2A-4
Description: Define 4 Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

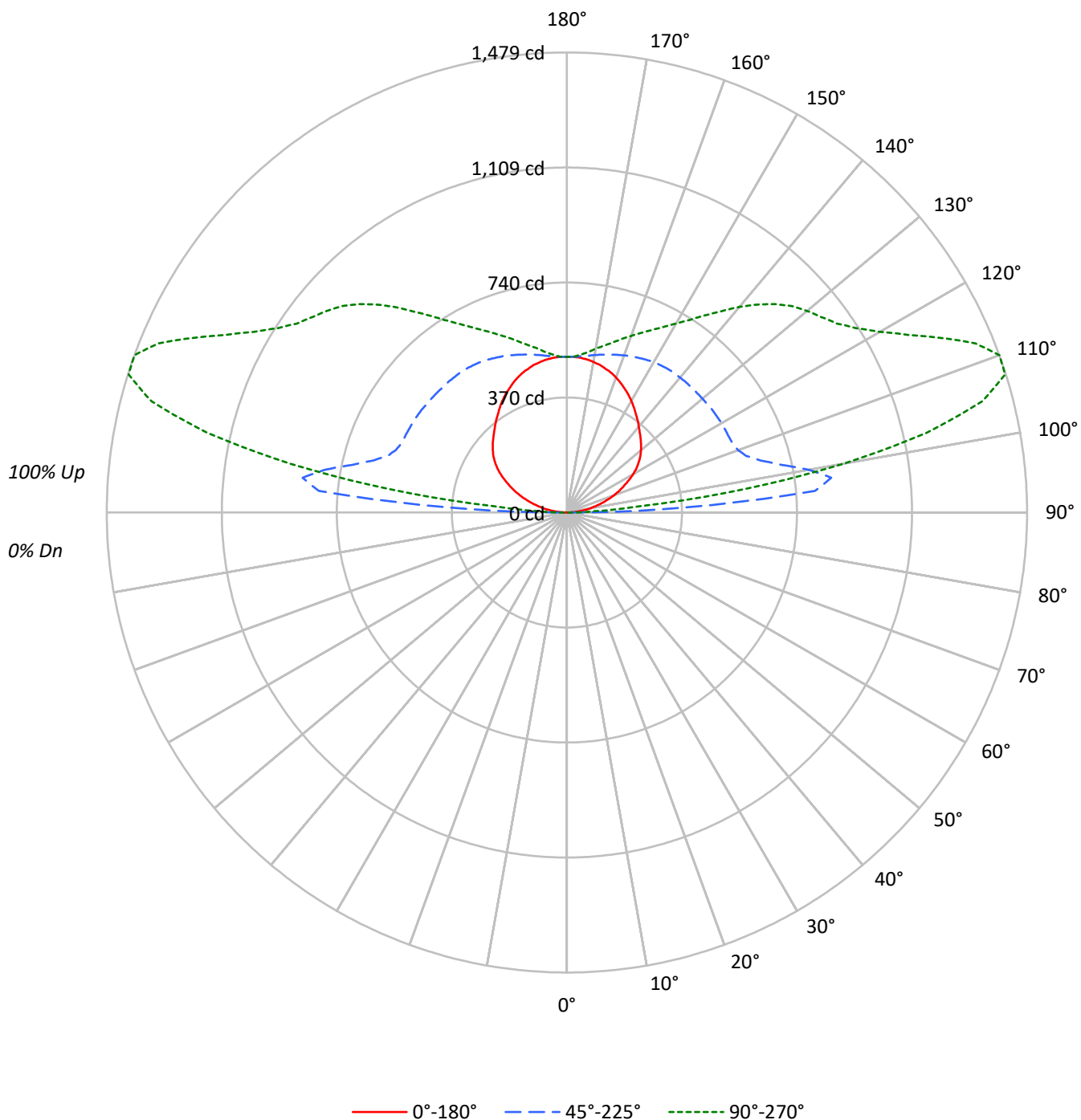
Lumens per Lamp: N/A
Luminaire Lumens: 3645.0 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

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°	362.5	9.9
100°-110°	756.8	20.8
110°-120°	672.8	18.5
120°-130°	566.3	15.5
130°-140°	472.5	13.0
140°-150°	360.7	9.9
150°-160°	253.6	7.0
160°-170°	149.2	4.1
170°-180°	48.5	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°	1792.2	49.2
90°-150°	3191.7	87.6
90°-180°	3643.0	99.9
0°-180°	3645.0	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°	32	102	801	397	240	36
105°	115	167	645	1388	1383	122
115°	202	254	575	1105	1328	201
125°	282	335	572	940	1059	251
135°	335	399	567	834	947	259
145°	386	442	564	704	773	242
155°	439	474	548	621	648	203
165°	479	493	526	557	565	135
175°	499	500	504	511	509	47
180°	500	500	500	500	500	

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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	2.9	5.9	6.9	7.9	7.9	13.8	13.8	15.7	17.7	16.7
92.5°	13.8	19.7	30.5	45.2	62.9	88.4	149.4	244.7	337.1	385.2	320.4
95°	32.4	35.4	45.2	58.0	81.6	122.8	208.3	369.5	604.4	800.9	823.5
97.5°	54.0	54.0	62.9	74.7	95.3	130.7	198.5	337.1	578.8	856.9	1032.8
100°	74.7	74.7	81.6	93.4	112.0	143.5	201.5	312.5	513.0	790.1	1041.7
102.5°	94.3	96.3	102.2	113.0	130.7	160.2	211.3	305.6	468.7	706.6	968.0
105°	115.0	117.9	122.8	134.6	152.3	180.8	228.0	309.5	447.1	644.6	875.6
107.5°	137.6	139.5	144.5	157.2	173.9	202.4	245.7	321.3	441.2	604.4	799.9
110°	160.2	162.1	167.1	178.9	196.5	223.1	266.3	335.1	443.2	585.7	745.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	181.8	183.8	189.7	200.5	218.2	244.7	286.0	349.8	449.1	576.8	715.4
115°	202.4	205.4	212.3	222.1	240.8	267.3	306.6	365.6	457.0	574.9	698.7
117.5°	224.1	227.0	232.9	243.7	261.4	288.9	326.3	381.3	464.8	573.9	689.9
120°	245.7	247.6	254.5	265.3	282.0	309.5	346.9	398.0	473.7	573.9	683.0
122.5°	265.3	267.3	274.2	284.0	302.7	329.2	366.5	413.7	482.5	572.9	675.1
125°	282.0	286.0	291.9	302.7	321.3	348.9	384.2	429.4	491.3	571.9	666.3
127.5°	297.8	300.7	307.6	319.4	339.0	366.5	400.9	443.2	498.2	570.0	654.5
130°	310.5	314.5	322.3	337.1	355.7	384.2	417.6	456.0	506.1	569.0	643.7
132.5°	323.3	326.3	337.1	350.8	371.5	398.0	431.4	468.7	513.0	568.0	633.8
135°	335.1	339.0	348.9	365.6	386.2	411.8	444.2	479.6	519.8	567.0	624.0
137.5°	346.9	350.8	361.6	377.4	399.0	423.5	454.0	487.4	523.8	567.0	615.2
140°	359.7	362.6	373.4	390.1	410.8	434.4	463.8	495.3	528.7	566.0	608.3
142.5°	373.4	376.4	386.2	401.9	421.6	444.2	472.7	501.2	532.6	566.0	602.4
145°	386.2	389.1	399.0	412.7	431.4	453.0	478.6	505.1	533.6	564.1	595.5
147.5°	400.9	401.9	410.8	425.5	441.2	460.9	485.5	509.0	534.6	561.1	589.6
150°	414.7	415.7	423.5	435.3	450.1	468.7	490.4	512.0	534.6	558.2	582.7
152.5°	427.5	427.5	435.3	446.1	458.9	475.6	494.3	514.0	532.6	553.3	574.9
155°	439.3	440.2	446.1	456.0	466.8	481.5	498.2	514.9	530.7	548.3	567.0
157.5°	451.1	451.1	457.0	464.8	474.6	486.4	501.2	514.9	528.7	543.4	559.2
160°	461.9	461.9	465.8	472.7	480.5	491.3	503.1	514.9	525.7	537.5	550.3
162.5°	471.7	470.7	473.7	479.6	486.4	494.3	505.1	514.9	522.8	531.6	542.4
165°	478.6	478.6	480.5	485.5	490.4	496.3	505.1	513.0	518.9	525.7	533.6
167.5°	486.4	485.5	486.4	490.4	493.3	498.2	505.1	511.0	514.9	519.8	525.7
170°	491.3	490.4	491.3	494.3	496.3	499.2	504.1	509.0	511.0	514.0	517.9
172.5°	496.3	495.3	495.3	497.2	498.2	500.2	503.1	507.1	507.1	508.1	511.0
175°	499.2	498.2	498.2	499.2	500.2	500.2	502.2	505.1	504.1	504.1	506.1
177.5°	501.2	500.2	499.2	500.2	500.2	500.2	501.2	503.1	501.2	501.2	502.2
180°	500.2	500.2	500.2	500.2	500.2	500.2	500.2	500.2	500.2	500.2	500.2

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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°	17.7	18.7	19.7	19.7	20.6	21.6	20.6	20.6
92.5°	236.8	176.9	139.5	115.0	100.2	93.4	89.4	89.4
95°	728.2	575.9	444.2	348.9	300.7	270.2	252.6	239.8
97.5°	1048.5	972.9	864.8	754.7	687.9	628.9	599.4	575.9
100°	1185.1	1204.8	1156.6	1083.9	998.4	938.5	909.0	901.1
102.5°	1178.3	1295.2	1324.7	1305.0	1260.8	1221.5	1190.0	1184.2
105°	1100.6	1270.6	1367.9	1408.2	1410.2	1402.3	1388.6	1382.7
107.5°	1005.3	1189.1	1324.7	1407.2	1450.5	1468.1	1476.0	1477.0
110°	920.8	1090.8	1233.3	1341.4	1411.2	1452.4	1470.1	1479.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	858.9	1004.3	1137.0	1245.1	1326.6	1378.7	1405.3	1421.0
115°	821.5	942.4	1057.4	1151.7	1229.4	1288.3	1319.8	1327.6
117.5°	799.9	902.1	995.5	1078.0	1146.8	1197.9	1231.3	1236.2
120°	786.2	877.5	956.2	1025.9	1081.9	1125.2	1150.7	1161.5
122.5°	774.4	861.8	931.6	990.6	1035.8	1071.1	1091.8	1102.6
125°	760.6	845.1	912.9	967.0	1006.3	1034.8	1053.5	1059.3
127.5°	744.9	826.4	894.3	945.4	984.7	1010.2	1025.9	1031.8
130°	725.2	802.9	869.7	921.8	962.1	986.6	1002.4	1008.2
132.5°	704.6	776.3	841.2	893.3	932.6	961.1	975.8	981.7
135°	685.9	749.8	809.7	858.9	898.2	925.7	941.4	947.3
137.5°	668.2	724.2	776.3	821.5	858.9	887.4	900.2	907.0
140°	653.5	699.7	743.9	785.2	819.6	841.2	854.9	862.8
142.5°	639.7	679.0	715.4	749.8	779.3	798.9	810.7	815.6
145°	627.0	660.4	689.9	717.4	741.9	758.6	768.5	773.4
147.5°	616.2	643.7	668.2	690.8	709.5	724.2	732.1	734.1
150°	606.3	628.9	648.6	666.3	682.0	694.8	700.7	701.6
152.5°	595.5	614.2	631.9	645.6	658.4	668.2	671.2	672.2
155°	584.7	600.4	615.2	627.0	636.8	644.6	647.6	647.6
157.5°	572.9	586.7	599.4	609.3	617.1	623.0	625.0	625.0
160°	562.1	572.9	583.7	591.6	597.5	603.4	604.4	604.4
162.5°	551.3	560.1	568.0	574.9	578.8	584.7	585.7	584.7
165°	541.5	547.4	554.2	559.2	563.1	567.0	566.0	565.1
167.5°	531.6	536.6	542.4	545.4	547.4	550.3	550.3	549.3
170°	522.8	525.7	529.7	532.6	534.6	535.6	534.6	534.6
172.5°	514.9	516.9	518.9	520.8	521.8	522.8	521.8	519.8
175°	508.1	509.0	511.0	511.0	511.0	513.0	511.0	509.0
177.5°	503.1	504.1	504.1	505.1	504.1	505.1	503.1	501.2
180°	500.2	500.2	500.2	500.2	500.2	500.2	500.2	500.2

(END OF REPORT)