

Scaled data based on original data using
LM-66-11 Electrical and Photometric Measurements of Single-Ended Compact
Fluorescent Lamps

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: SHAPER

Report Number: 16792

Luminaire Tested: **635-CF1/26-120SSB-NA**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 16792
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 635-CF1/26-120SSB-NA
Description: WALL MOUNT LUMINAIRE WITH WHITE INTERIOR AND CURVED WHITE PLASTIC
LENS WITH OPEN TOP AND BOTTOM
Light Source: ONE SYLVANIA 26 WATT CPFL LAMP

CF26DD/E/81. LUMEN RATING = 1825 LMS.

Ballast/Driver: -

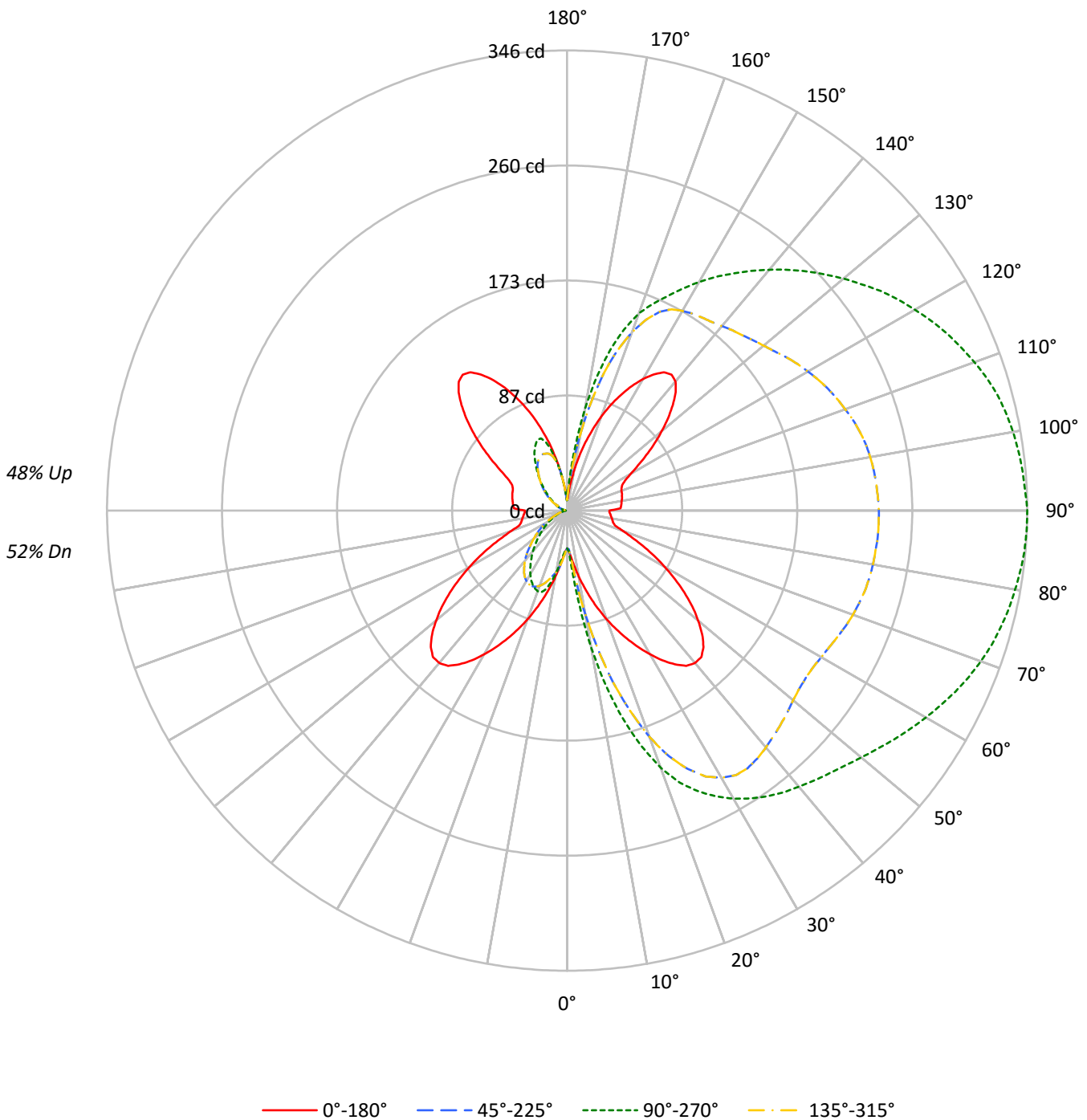
Summary

Lumens per Lamp: 1825 (1 lamp)
Luminaire Lumens: 1433.9 lumens
Efficiency: 78.6%
Efficacy: 47.8 lumens/watt
Spacing Criteria (0/90/45): 3.19 / 4.07 / 3.32
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1.08' x H: 0.75')
CIE Type: General Diffuse

Input Watts (W): 30
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	85	85	85	85	78	78	78	78	67	67	67	56	56	56	46	46	46	41
1	74	69	65	61	68	64	60	57	54	51	48	44	42	40	35	34	32	28
2	66	59	53	47	61	54	49	44	45	41	37	37	34	31	29	27	25	21
3	60	51	44	38	54	47	40	35	39	34	30	32	28	25	25	22	20	17
4	54	44	37	31	49	41	34	29	34	29	25	28	24	20	22	19	16	13
5	49	39	32	26	45	36	29	24	30	25	21	24	20	17	19	16	14	11
6	45	35	27	22	41	32	25	21	27	21	18	22	18	15	17	14	12	9
7	42	31	24	19	38	28	22	18	24	19	15	20	16	12	16	12	10	8
8	38	28	21	17	35	26	20	15	22	17	13	18	14	11	14	11	9	7
9	36	25	19	14	33	23	17	13	20	15	11	16	12	10	13	10	8	6
10	33	23	17	13	30	21	16	12	18	13	10	15	11	8	12	9	7	5

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	1665	1665	1665	1665
5°	1986	1957	1986	1435
10°	2657	3502	2657	1577
15°	3480	4506	3480	1699
20°	4333	4927	4333	1544
25°	5184	4926	5184	1297
30°	6026	4773	6026	1055
35°	6795	4589	6795	835
40°	7234	4411	7234	653
45°	7095	4277	7095	496
50°	6418	4209	6418	373
55°	5522	4202	5522	274
60°	4503	4225	4503	199
65°	3494	4271	3494	139
70°	2611	4325	2611	98
75°	2264	4380	2264	64
80°	2338	4439	2338	36
85°	2461	4515	2461	16



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	4.4	0.3	0.2
10°-20°	26.3	1.8	1.4
20°-30°	60.2	4.2	3.3
30°-40°	89.9	6.3	4.9
40°-50°	106.5	7.4	5.8
50°-60°	111.9	7.8	6.1
60°-70°	114.3	8.0	6.3
70°-80°	117.9	8.2	6.5
80°-90°	120.4	8.4	6.6
90°-100°	121.0	8.4	6.6
100°-110°	116.5	8.1	6.4
110°-120°	107.1	7.5	5.9
120°-130°	98.3	6.9	5.4
130°-140°	90.0	6.3	4.9
140°-150°	75.5	5.3	4.1
150°-160°	50.4	3.5	2.8
160°-170°	20.8	1.5	1.1
170°-180°	2.6	0.2	0.1
0°-30°	90.9	6.3	5.0
0°-40°	180.7	12.6	9.9
0°-60°	399.1	27.8	21.9
0°-90°	751.7	52.4	41.2
90°-120°	344.7	24.0	18.9
90°-150°	608.5	42.4	33.3
90°-180°	682.0	47.6	37.4
0°-180°	1433.9	100.0	78.6

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	28	28	28	28	28	
5°	36	46	36	34	36	4
15°	68	162	68	61	68	20
25°	106	233	106	61	106	50
35°	141	262	141	48	141	88
45°	145	279	145	32	145	110
55°	108	300	108	20	108	96
65°	63	322	63	10	63	63
75°	36	338	36	5	36	39
85°	33	345	33	1	33	27
90°	32	346	32	0	32	19
95°	41	344	41	2	41	33
105°	43	335	43	4	43	45
115°	46	315	46	8	46	47
125°	73	288	73	15	73	65
135°	112	254	112	26	112	86
145°	127	218	127	41	127	78
155°	96	178	96	56	96	45
165°	53	125	53	48	53	16
175°	15	29	15	14	15	2
180°	8	8	8	8	8	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
2.5°	30.6	28.5	29.1	29.8	30.6	29.8	29.1	28.5	30.6	32.4	31.5
5°	35.8	33.6	37.1	42.4	46.1	42.4	37.1	33.6	35.8	37.3	36.6
7.5°	42.2	41.9	55.5	66.9	72.8	66.9	55.5	41.9	42.2	42.7	42.4
10°	50.1	54.0	79.7	98.1	104.6	98.1	79.7	54.0	50.1	48.2	46.9
12.5°	58.5	68.7	106.1	129.4	135.0	129.4	106.1	68.7	58.5	53.6	50.3
15°	68.0	86.0	133.6	157.5	162.0	157.5	133.6	86.0	68.0	58.1	54.0
17.5°	77.1	104.0	158.0	182.5	185.5	182.5	158.0	104.0	77.1	59.9	57.6
20°	87.0	123.2	181.1	203.9	205.8	203.9	181.1	123.2	87.0	59.9	60.2
22.5°	96.6	142.0	200.0	220.2	221.4	220.2	200.0	142.0	96.6	59.2	62.0
25°	106.1	157.8	214.2	231.9	232.8	231.9	214.2	157.8	106.1	58.1	62.7
27.5°	115.7	172.5	225.4	240.9	242.2	240.9	225.4	172.5	115.7	56.9	62.4
30°	124.7	184.3	231.9	247.2	250.1	247.2	231.9	184.3	124.7	55.5	61.3
32.5°	133.6	193.2	235.9	252.2	256.6	252.2	235.9	193.2	133.6	54.0	59.2
35°	141.1	199.0	236.5	255.9	262.2	255.9	236.5	199.0	141.1	52.4	56.6
37.5°	147.2	202.3	234.9	258.7	267.1	258.7	234.9	202.3	147.2	50.1	52.9
40°	149.6	202.3	232.5	260.8	271.0	260.8	232.5	202.3	149.6	47.1	49.5
42.5°	149.3	198.1	229.8	262.4	275.2	262.4	229.8	198.1	149.3	43.5	45.3
45°	145.0	191.3	227.2	264.7	279.2	264.7	227.2	191.3	145.0	39.8	40.8
47.5°	137.8	183.2	224.6	267.3	283.6	267.3	224.6	183.2	137.8	36.4	36.6
50°	128.6	174.3	221.8	270.5	288.8	270.5	221.8	174.3	128.6	33.1	32.7
52.5°	118.8	165.4	220.0	274.2	294.1	274.2	220.0	165.4	118.8	30.3	28.9
55°	107.6	156.2	219.1	278.7	300.1	278.7	219.1	156.2	107.6	27.0	25.4
57.5°	96.3	147.8	219.3	282.9	305.7	282.9	219.3	147.8	96.3	24.0	22.2
60°	84.6	139.6	220.5	287.6	311.4	287.6	220.5	139.6	84.6	21.0	18.9
62.5°	73.7	133.3	222.3	292.2	316.7	292.2	222.3	133.3	73.7	18.2	15.9
65°	62.7	128.9	224.4	296.7	322.1	296.7	224.4	128.9	62.7	15.4	12.8
67.5°	52.8	126.8	226.7	301.1	326.9	301.1	226.7	126.8	52.8	13.1	10.2
70°	44.3	125.2	228.8	304.6	331.1	304.6	228.8	125.2	44.3	11.0	8.1
72.5°	38.0	124.2	230.4	307.7	334.9	307.7	230.4	124.2	38.0	8.9	6.8
75°	35.9	124.0	231.9	309.9	337.7	309.9	231.9	124.0	35.9	7.3	5.4
77.5°	35.0	123.7	232.8	312.0	340.2	312.0	232.8	123.7	35.0	5.7	3.9
80°	34.2	123.2	233.5	313.2	342.1	313.2	233.5	123.2	34.2	4.2	2.8
82.5°	33.3	122.9	233.8	314.8	343.9	314.8	233.8	122.9	33.3	3.1	1.8
85°	32.7	122.4	234.4	315.8	345.2	315.8	234.4	122.4	32.7	2.1	1.2
87.5°	31.9	122.1	234.4	316.2	345.8	316.2	234.4	122.1	31.9	1.5	0.5
90°	31.8	121.9	234.4	316.4	346.0	316.4	234.4	121.9	31.8	1.2	0.5
92.5°	40.2	121.0	233.8	315.3	344.7	315.3	233.8	121.0	40.2	3.9	0.5
95°	40.7	121.0	233.3	314.6	343.7	314.6	233.3	121.0	40.7	4.7	1.0
97.5°	41.2	120.8	232.5	313.5	342.3	313.5	232.5	120.8	41.2	5.4	1.5
100°	41.6	120.3	231.4	311.8	340.5	311.8	231.4	120.3	41.6	6.0	2.1
102.5°	42.2	120.0	230.1	309.9	338.1	309.9	230.1	120.0	42.2	7.0	3.1
105°	42.6	119.3	228.0	307.2	335.1	307.2	228.0	119.3	42.6	8.4	3.9
107.5°	43.2	118.4	225.6	303.5	330.9	303.5	225.6	118.4	43.2	9.8	4.9
110°	43.5	117.4	222.5	299.0	326.0	299.0	222.5	117.4	43.5	11.5	6.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	44.2	116.8	219.7	294.6	320.6	294.6	219.7	116.8	44.2	13.1	7.5
115°	45.7	116.6	216.5	289.9	315.1	289.9	216.5	116.6	45.7	15.2	9.1
117.5°	49.1	117.0	213.0	284.6	308.8	284.6	213.0	117.0	49.1	17.5	7.8
120°	54.9	117.7	209.1	278.7	302.0	278.7	209.1	117.7	54.9	20.1	12.3
122.5°	63.2	119.1	205.3	272.6	295.2	272.6	205.3	119.1	63.2	23.1	14.4
125°	72.6	121.1	201.1	266.1	287.8	266.1	201.1	121.1	72.6	26.6	16.8
127.5°	82.7	124.0	196.6	258.9	279.4	258.9	196.6	124.0	82.7	30.8	19.1
130°	92.8	127.9	192.9	251.9	271.3	251.9	192.9	127.9	92.8	35.2	21.7
132.5°	103.1	133.7	189.5	244.5	262.9	244.5	189.5	133.7	103.1	40.6	24.3
135°	112.3	140.8	186.4	237.0	254.3	237.0	186.4	140.8	112.3	45.9	27.0
137.5°	120.9	148.4	183.9	229.3	245.6	229.3	183.9	148.4	120.9	51.3	29.8
140°	126.8	156.4	181.1	221.2	236.4	221.2	181.1	156.4	126.8	56.4	32.9
142.5°	128.9	161.5	178.7	213.4	227.2	213.4	178.7	161.5	128.9	61.5	35.6
145°	126.9	163.6	177.1	205.3	217.6	205.3	177.1	163.6	126.9	67.1	38.7
147.5°	121.4	162.7	175.5	197.6	208.4	197.6	175.5	162.7	121.4	72.0	41.5
150°	114.2	158.9	173.4	189.5	198.4	189.5	173.4	158.9	114.2	75.7	43.5
152.5°	105.7	152.2	170.6	181.6	188.1	181.6	170.6	152.2	105.7	77.3	45.3
155°	96.0	141.5	165.0	172.5	177.6	172.5	165.0	141.5	96.0	76.0	46.1
157.5°	86.2	127.9	155.4	164.6	168.0	164.6	155.4	127.9	86.2	72.9	46.1
160°	75.4	111.6	142.6	153.1	157.8	153.1	142.6	111.6	75.4	68.1	45.6
162.5°	63.9	91.6	126.6	137.3	142.9	137.3	126.6	91.6	63.9	60.8	44.8
165°	52.9	72.9	107.2	119.3	125.0	119.3	107.2	72.9	52.9	51.8	42.4
167.5°	41.5	55.3	83.4	97.2	103.0	97.2	83.4	55.3	41.5	39.8	37.7
170°	31.0	40.3	60.2	72.8	78.3	72.8	60.2	40.3	31.0	29.1	30.8
172.5°	21.6	26.4	38.7	48.0	51.1	48.0	38.7	26.4	21.6	21.2	21.9
175°	14.6	16.5	23.6	28.2	28.7	28.2	23.6	16.5	14.6	15.4	13.3
177.5°	9.3	11.2	13.8	14.4	14.7	14.4	13.8	11.2	9.3	9.8	8.9
180°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0



TEST NUMBER: 16792

CATALOG NUMBER: 635-CF1/26-120SSB-NA

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	28.4	28.4	28.4	28.4	28.4	28.4
2.5°	30.6	29.4	30.6	31.5	32.4	30.6
5°	35.6	33.8	35.6	36.6	37.3	35.8
7.5°	41.5	39.4	41.5	42.4	42.7	42.2
10°	48.0	47.1	48.0	46.9	48.2	50.1
12.5°	54.3	54.8	54.3	50.3	53.6	58.5
15°	60.3	61.1	60.3	54.0	58.1	68.0
17.5°	64.5	64.4	64.5	57.6	59.9	77.1
20°	66.5	64.5	66.5	60.2	59.9	87.0
22.5°	66.5	63.4	66.5	62.0	59.2	96.6
25°	65.5	61.3	65.5	62.7	58.1	106.1
27.5°	63.9	58.7	63.9	62.4	56.9	115.7
30°	61.5	55.3	61.5	61.3	55.5	124.7
32.5°	58.2	51.5	58.2	59.2	54.0	133.6
35°	54.8	47.7	54.8	56.6	52.4	141.1
37.5°	51.1	43.8	51.1	52.9	50.1	147.2
40°	47.1	40.1	47.1	49.5	47.1	149.6
42.5°	42.9	36.1	42.9	45.3	43.5	149.3
45°	39.0	32.4	39.0	40.8	39.8	145.0
47.5°	35.0	28.9	35.0	36.6	36.4	137.8
50°	30.8	25.6	30.8	32.7	33.1	128.6
52.5°	27.3	22.6	27.3	28.9	30.3	118.8
55°	23.6	19.6	23.6	25.4	27.0	107.6
57.5°	20.3	17.0	20.3	22.2	24.0	96.3
60°	17.3	14.7	17.3	18.9	21.0	84.6
62.5°	14.4	12.6	14.4	15.9	18.2	73.7
65°	11.7	10.5	11.7	12.8	15.4	62.7
67.5°	9.6	8.9	9.6	10.2	13.1	52.8
70°	7.9	7.5	7.9	8.1	11.0	44.3
72.5°	6.3	6.0	6.3	6.8	8.9	38.0
75°	5.2	4.9	5.2	5.4	7.3	35.9
77.5°	3.9	3.7	3.9	3.9	5.7	35.0
80°	3.1	2.8	3.1	2.8	4.2	34.2
82.5°	2.1	1.8	2.1	1.8	3.1	33.3
85°	1.2	1.2	1.2	1.2	2.1	32.7
87.5°	0.5	0.5	0.5	0.5	1.5	31.9
90°	0.5	0.5	0.5	0.5	1.2	31.8
92.5°	0.5	0.7	0.5	0.5	3.9	40.2
95°	1.2	1.5	1.2	1.0	4.7	40.7
97.5°	1.6	1.8	1.6	1.5	5.4	41.2
100°	2.3	2.6	2.3	2.1	6.0	41.6
102.5°	3.1	1.6	3.1	3.1	7.0	42.2
105°	3.7	3.9	3.7	3.9	8.4	42.6
107.5°	4.7	4.7	4.7	4.9	9.8	43.2
110°	5.7	5.7	5.7	6.0	11.5	43.5



TEST NUMBER: 16792

CATALOG NUMBER: 635-CF1/26-120SSB-NA

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	6.8	6.8	6.8	7.5	13.1	44.2
115°	8.1	7.9	8.1	9.1	15.2	45.7
117.5°	10.0	9.4	10.0	7.8	17.5	49.1
120°	12.6	11.0	12.6	12.3	20.1	54.9
122.5°	16.1	12.8	16.1	14.4	23.1	63.2
125°	20.3	14.9	20.3	16.8	26.6	72.6
127.5°	24.7	17.3	24.7	19.1	30.8	82.7
130°	29.6	19.8	29.6	21.7	35.2	92.8
132.5°	35.0	22.8	35.0	24.3	40.6	103.1
135°	40.3	25.9	40.3	27.0	45.9	112.3
137.5°	46.4	29.6	46.4	29.8	51.3	120.9
140°	52.4	33.1	52.4	32.9	56.4	126.8
142.5°	56.4	36.9	56.4	35.6	61.5	128.9
145°	59.0	40.8	59.0	38.7	67.1	126.9
147.5°	60.6	45.0	60.6	41.5	72.0	121.4
150°	60.8	49.2	60.8	43.5	75.7	114.2
152.5°	60.6	52.7	60.6	45.3	77.3	105.7
155°	59.9	55.7	59.9	46.1	76.0	96.0
157.5°	57.8	57.8	57.8	46.1	72.9	86.2
160°	54.3	57.8	54.3	45.6	68.1	75.4
162.5°	48.5	54.5	48.5	44.8	60.8	63.9
165°	42.4	47.7	42.4	42.4	51.8	52.9
167.5°	36.1	38.7	36.1	37.7	39.8	41.5
170°	30.1	30.6	30.1	30.8	29.1	31.0
172.5°	22.2	22.2	22.2	21.9	21.2	21.6
175°	14.2	14.2	14.2	13.3	15.4	14.6
177.5°	8.1	7.8	8.1	8.9	9.8	9.3
180°	8.0	8.0	8.0	8.0	8.0	8.0

(END OF REPORT)