

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P244152

Luminaire Tested: **LSR8B10D010 EC8B109730 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B10D010 EC8B109730 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 888.0 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

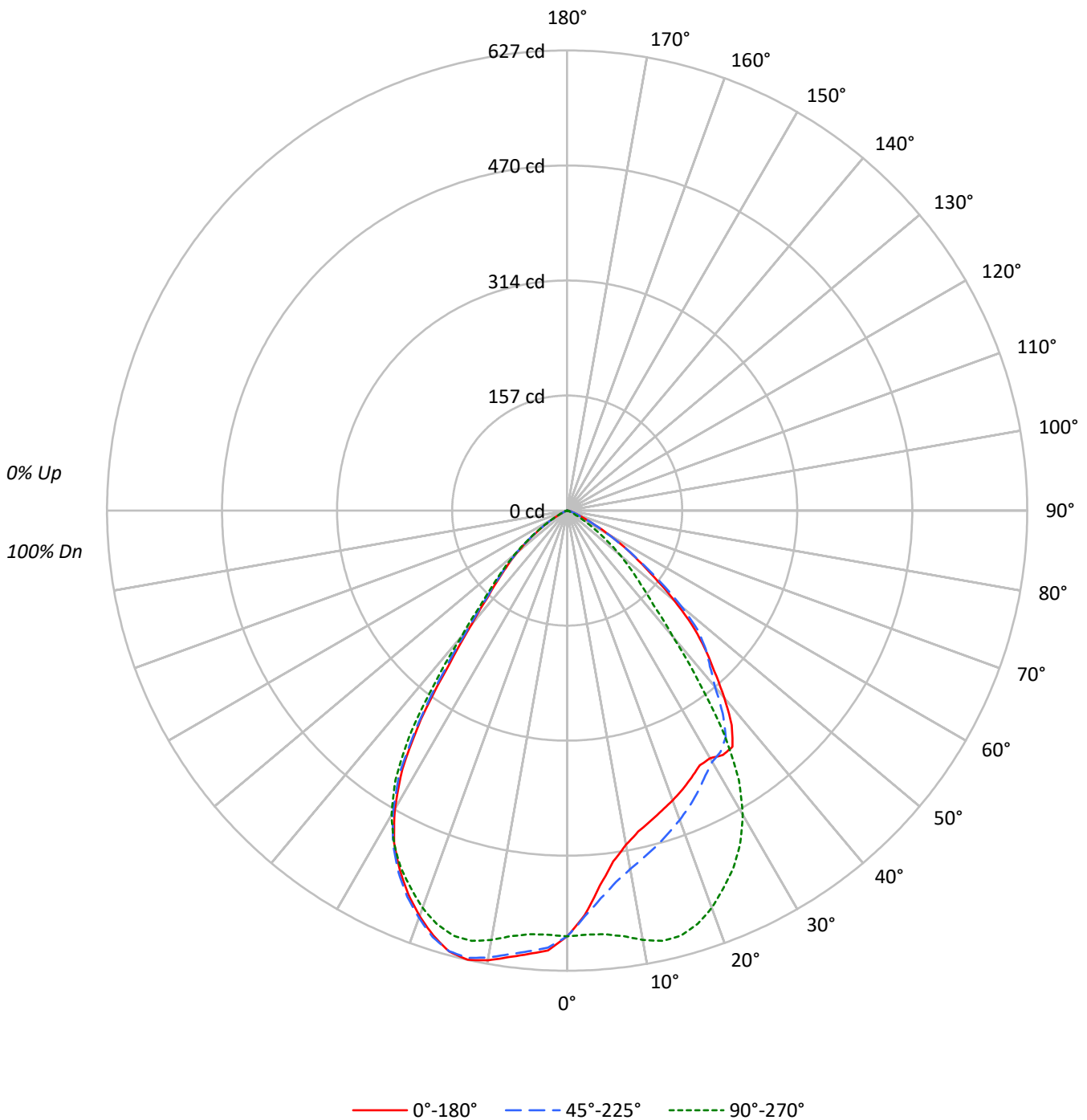
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	6.1
10°-20°	156.2	17.6
20°-30°	226.7	25.5
30°-40°	223.2	25.1
40°-50°	139.9	15.8
50°-60°	67.5	7.6
60°-70°	16.3	1.8
70°-80°	3.3	0.4
80°-90°	0.8	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	436.9	49.2
0°-40°	660.1	74.3
0°-60°	867.6	97.7
0°-90°	888.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	888.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	580	580	580	580	580	
5°	513	530	579	603	606	47
15°	438	472	600	622	622	124
25°	401	422	536	544	540	186
35°	393	377	374	353	347	238
45°	265	267	142	136	132	203
55°	118	122	52	51	48	108
65°	28	27	8	7	6	31
75°	7	6	2	1	1	8
85°	2	2	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1
2.5°	551.5	548.0	541.4	549.3	549.3	544.9	553.7	548.4	552.7	559.4	553.4
5°	512.7	509.8	504.4	512.7	513.8	509.7	520.4	516.4	522.6	530.9	530.1
7.5°	482.1	478.4	473.4	482.1	483.8	481.0	491.3	489.4	497.7	508.3	510.2
10°	462.1	458.3	453.9	461.8	463.1	461.2	471.6	470.5	478.6	490.9	495.8
12.5°	448.0	444.8	439.9	448.3	449.6	447.0	456.8	456.3	464.7	477.7	483.8
15°	438.1	434.2	429.8	437.0	438.8	435.9	445.2	444.3	452.8	465.6	472.5
17.5°	428.8	425.3	420.7	427.4	429.2	426.2	435.3	433.8	441.1	453.3	460.3
20°	420.1	416.3	412.1	419.0	420.1	416.6	425.7	423.7	430.3	441.6	448.4
22.5°	411.1	407.1	402.8	409.6	410.6	407.1	415.5	413.2	419.3	429.5	435.8
25°	401.2	397.5	393.2	399.5	400.4	396.6	405.4	402.5	407.9	416.9	422.1
27.5°	391.3	387.8	383.0	389.4	389.9	386.2	394.3	390.3	394.8	403.0	407.4
30°	389.6	385.6	380.7	385.9	386.1	381.4	389.0	384.3	386.7	392.8	395.4
32.5°	394.9	391.0	385.9	390.2	389.7	384.6	391.9	386.1	386.8	390.0	389.4
35°	392.8	388.1	382.1	386.7	386.7	380.4	387.8	380.9	380.1	380.6	376.8
37.5°	368.6	364.9	359.3	363.7	363.2	358.5	364.1	358.5	355.9	354.8	348.0
40°	332.9	328.5	324.2	328.9	329.4	324.4	331.7	325.3	324.5	321.5	313.4
42.5°	296.8	295.2	291.1	295.1	297.2	293.0	299.0	296.0	296.5	295.7	288.1
45°	265.2	262.6	259.6	264.1	265.5	263.4	269.5	267.7	269.5	273.3	267.0
47.5°	231.2	228.6	225.3	230.2	232.6	228.6	233.8	233.2	235.9	242.5	241.9
50°	190.2	188.4	187.8	188.4	189.9	188.1	191.7	191.9	193.7	202.7	203.3
52.5°	150.6	150.1	148.0	150.0	150.0	147.1	150.7	149.1	150.9	157.0	161.0
55°	117.8	117.4	116.0	117.8	115.8	114.8	115.8	114.2	112.8	117.5	121.6
57.5°	91.8	90.2	88.6	89.3	89.2	86.9	88.1	86.1	85.1	86.7	90.4
60°	65.4	64.9	63.4	64.2	64.8	63.1	64.3	63.4	61.6	62.9	63.1
62.5°	43.4	43.7	42.8	43.0	42.5	42.2	43.0	43.4	43.0	42.4	42.5
65°	27.6	27.4	27.3	27.4	27.7	27.1	27.6	27.9	27.4	27.4	27.3
67.5°	18.3	17.8	17.4	17.7	18.0	17.5	18.0	17.8	18.0	17.8	17.4
70°	12.3	12.2	12.0	12.2	12.2	11.9	12.2	12.0	12.2	12.0	11.6
72.5°	9.0	9.0	8.8	9.0	9.0	8.7	8.8	8.5	8.7	8.5	8.2
75°	6.7	6.7	6.6	6.7	6.6	6.4	6.6	6.4	6.1	6.1	5.8
77.5°	4.9	4.9	4.9	4.9	4.9	4.7	4.7	4.6	4.4	4.3	4.3
80°	3.7	3.5	3.5	3.5	3.5	3.4	3.5	3.4	3.2	3.0	2.9
82.5°	2.6	2.7	2.6	2.6	2.6	2.4	2.6	2.4	2.4	2.3	2.0
85°	2.0	2.0	2.0	2.0	2.0	1.8	1.8	1.8	1.7	1.7	1.5
87.5°	1.1	1.1	1.1	1.2	1.1	1.1	1.1	0.9	0.9	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1
2.5°	561.4	562.1	560.5	563.0	573.1	565.0	568.4	569.4	577.1	578.4	577.5
5°	540.0	543.4	545.5	551.3	562.4	556.6	562.6	566.4	576.1	579.4	580.1
7.5°	523.3	530.3	535.5	544.9	558.0	553.6	562.6	568.8	580.7	584.8	586.8
10°	510.8	521.4	530.4	543.4	558.2	555.3	567.0	575.8	589.1	594.0	596.4
12.5°	501.3	514.3	526.3	542.8	558.8	557.4	571.6	581.6	595.7	600.5	603.4
15°	490.9	505.9	519.9	538.3	555.6	555.3	570.5	581.2	595.5	599.6	602.4
17.5°	478.6	494.6	510.0	530.0	547.0	547.3	562.7	573.3	587.3	590.6	592.5
20°	466.1	482.0	497.3	517.9	534.7	535.1	550.2	560.0	573.4	576.1	576.6
22.5°	452.8	467.6	483.0	503.4	519.6	519.9	534.8	544.0	555.4	556.8	558.0
25°	437.8	452.2	466.7	487.0	502.4	503.3	516.9	524.9	535.5	536.5	537.0
27.5°	422.1	433.9	447.8	465.2	480.7	480.1	492.9	502.1	511.5	510.9	510.8
30°	406.2	416.1	424.6	441.4	452.8	453.3	465.3	469.8	479.7	478.4	478.3
32.5°	395.1	397.7	400.0	408.5	419.3	415.5	423.7	429.2	436.1	435.6	435.8
35°	374.6	369.9	363.1	364.3	370.8	364.9	369.3	369.2	376.2	374.5	376.5
37.5°	339.7	326.3	311.1	302.4	303.6	296.2	294.6	298.3	300.7	296.0	297.7
40°	302.6	282.7	259.0	239.1	238.1	228.8	227.1	223.4	228.2	224.2	225.4
42.5°	275.1	248.9	217.7	193.6	188.4	180.6	176.0	175.4	176.8	174.1	173.3
45°	254.1	226.2	190.4	162.8	157.0	148.6	144.0	142.4	142.5	141.6	140.8
47.5°	229.4	201.3	165.1	136.9	130.3	122.4	117.8	116.8	117.4	116.1	115.2
50°	195.3	170.1	137.0	111.3	105.5	99.7	96.0	95.0	94.8	93.9	93.3
52.5°	158.5	137.6	109.0	87.5	82.3	76.7	74.1	72.7	72.9	71.9	71.0
55°	122.7	109.7	84.4	66.2	61.4	57.0	54.6	52.9	52.4	51.5	51.1
57.5°	91.3	82.6	63.3	47.7	45.0	40.7	38.3	36.3	36.0	35.5	35.4
60°	64.0	57.8	44.5	34.0	30.8	28.2	25.8	23.8	22.9	22.7	22.3
62.5°	41.5	37.6	29.3	22.7	20.3	18.4	16.0	14.6	14.0	13.4	13.6
65°	25.8	22.9	18.3	14.6	13.3	11.9	10.1	8.8	8.2	7.6	7.8
67.5°	16.0	14.3	11.6	9.5	8.5	7.5	6.1	5.2	4.7	4.3	4.0
70°	10.8	9.3	7.9	6.7	6.1	5.3	4.4	3.7	3.4	3.0	2.7
72.5°	7.6	6.9	5.8	5.0	4.6	4.0	3.4	2.9	2.6	2.3	2.0
75°	5.5	4.9	4.3	3.7	3.4	3.0	2.6	2.3	2.0	1.7	1.4
77.5°	4.0	3.5	3.0	2.7	2.6	2.1	1.8	1.7	1.5	1.2	0.9
80°	2.7	2.4	2.0	1.8	1.8	1.5	1.4	1.2	1.1	0.8	0.6
82.5°	1.8	1.7	1.5	1.4	1.2	1.1	1.1	0.8	0.6	0.5	0.3
85°	1.4	1.2	1.1	0.9	0.9	0.8	0.6	0.5	0.5	0.3	0.2
87.5°	0.8	0.8	0.6	0.5	0.5	0.3	0.3	0.2	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1
2.5°	585.3	585.8	588.3	586.4	591.4	595.0	593.2	597.3	596.0	595.7	600.4
5°	589.3	590.3	593.8	592.0	597.5	601.5	599.6	604.2	602.8	602.5	607.4
7.5°	596.9	597.9	601.0	599.5	605.3	608.8	606.5	611.5	609.7	609.5	614.3
10°	606.5	608.0	610.6	609.1	614.4	617.5	615.2	620.0	618.4	617.6	622.8
12.5°	613.6	614.7	617.3	616.1	621.3	623.6	621.6	626.3	624.2	623.6	628.1
15°	612.0	613.0	615.2	614.1	619.0	621.1	618.5	623.7	621.6	620.4	624.5
17.5°	601.3	601.9	603.4	602.4	607.5	608.9	606.0	611.2	609.2	607.1	611.1
20°	585.6	585.3	586.2	585.8	590.0	590.8	589.0	592.8	590.5	589.3	591.5
22.5°	566.1	565.8	566.4	565.2	569.4	569.9	567.2	571.7	569.4	567.2	571.0
25°	544.4	542.8	542.5	542.9	545.8	546.3	543.4	546.7	543.8	542.0	545.7
27.5°	517.8	515.6	515.2	515.6	518.5	516.4	514.0	516.4	513.5	511.8	514.1
30°	484.8	481.8	480.4	479.5	482.6	481.8	476.2	478.9	474.3	471.9	473.6
32.5°	440.5	438.8	435.2	433.0	435.9	430.1	426.6	426.6	424.8	420.7	421.6
35°	378.9	376.3	373.0	371.1	371.6	363.8	358.0	359.3	353.2	352.1	352.5
37.5°	301.0	296.8	295.5	291.7	292.6	285.8	277.9	278.0	274.8	271.5	270.4
40°	226.2	225.4	224.2	221.0	222.2	214.8	211.7	211.9	209.7	207.3	208.5
42.5°	174.8	172.4	171.6	170.6	170.9	169.6	165.7	166.1	164.3	163.7	163.1
45°	142.1	139.5	137.6	138.6	138.6	137.2	135.7	136.6	135.7	134.4	135.0
47.5°	117.1	114.6	113.7	113.6	114.6	113.7	112.2	112.5	112.3	111.9	111.6
50°	93.4	92.8	92.1	91.6	92.1	91.8	90.4	91.1	91.6	90.1	90.5
52.5°	71.2	71.2	71.0	70.0	70.9	70.0	69.8	70.1	69.7	69.0	68.9
55°	52.1	51.7	50.9	50.8	51.1	50.8	50.5	50.6	50.9	49.4	49.4
57.5°	35.7	35.4	34.9	34.9	35.5	34.8	34.3	34.9	34.3	33.7	33.7
60°	22.9	22.7	22.3	22.3	22.3	22.1	21.6	21.8	22.1	21.2	21.3
62.5°	13.7	13.3	13.1	13.0	13.1	13.0	13.0	12.8	12.7	12.7	12.2
65°	7.5	7.2	6.9	7.0	7.0	6.9	6.9	6.9	6.6	6.4	6.2
67.5°	3.8	3.5	3.5	3.4	3.4	3.4	3.4	3.2	3.2	3.2	3.0
70°	2.4	2.3	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.8
72.5°	1.7	1.5	1.4	1.4	1.4	1.2	1.2	1.2	1.2	1.1	1.1
75°	1.2	1.1	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.3
80°	0.5	0.5	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
82.5°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1
2.5°	598.7	597.5	598.3	603.9	601.5	600.7	594.3	599.9
5°	605.9	605.0	605.0	611.4	608.5	607.9	601.6	606.5
7.5°	612.6	611.7	611.8	618.4	616.1	615.2	608.9	613.8
10°	621.3	620.7	620.8	627.1	624.6	623.7	617.3	622.3
12.5°	626.4	625.5	625.5	632.2	629.5	628.1	622.0	626.9
15°	622.5	621.1	621.1	627.8	624.8	622.8	617.5	622.0
17.5°	608.9	607.5	607.5	613.3	611.1	608.2	602.7	606.9
20°	590.0	588.3	587.9	594.6	591.4	588.8	583.9	588.0
22.5°	568.7	567.9	566.5	573.3	570.4	567.6	562.4	565.6
25°	543.1	541.9	540.5	547.0	544.1	541.4	537.3	539.9
27.5°	511.2	511.4	510.6	515.8	512.9	511.4	506.3	510.6
30°	472.7	471.0	470.4	476.5	473.7	471.7	465.5	469.6
32.5°	422.4	419.9	416.7	423.6	418.9	417.2	411.8	417.8
35°	349.2	348.4	345.5	351.3	348.7	345.7	342.3	347.4
37.5°	269.9	270.5	270.2	271.8	270.2	268.3	264.6	262.8
40°	206.1	204.5	203.3	206.1	202.9	202.9	200.7	203.0
42.5°	161.6	161.0	162.5	163.1	161.3	161.0	160.7	160.5
45°	133.4	133.4	133.7	134.3	133.7	133.4	132.5	131.8
47.5°	109.9	110.5	109.9	111.9	110.8	110.5	108.7	109.4
50°	89.0	88.3	89.0	89.6	89.8	88.9	87.9	88.4
52.5°	69.0	67.8	67.5	68.4	67.8	67.8	67.2	67.1
55°	48.6	49.1	48.3	49.1	48.8	48.3	47.9	48.5
57.5°	32.9	33.1	32.8	33.2	32.5	32.6	32.5	32.3
60°	21.3	20.7	20.7	21.2	20.4	20.4	20.3	20.3
62.5°	12.2	12.0	12.0	11.9	11.7	11.7	11.7	11.4
65°	6.2	6.1	5.9	5.9	5.9	5.9	5.8	5.8
67.5°	3.0	2.9	2.9	3.0	2.9	2.9	2.9	2.9
70°	1.8	1.8	1.7	1.8	1.7	1.7	1.7	1.7
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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