

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: P244147

Luminaire Tested: **LSR8B15D010 EC8B159727 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244147
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: LSR8B15D010 EC8B159727 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1137.0 lumens
Efficiency: N/A
Efficacy: 79.0 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

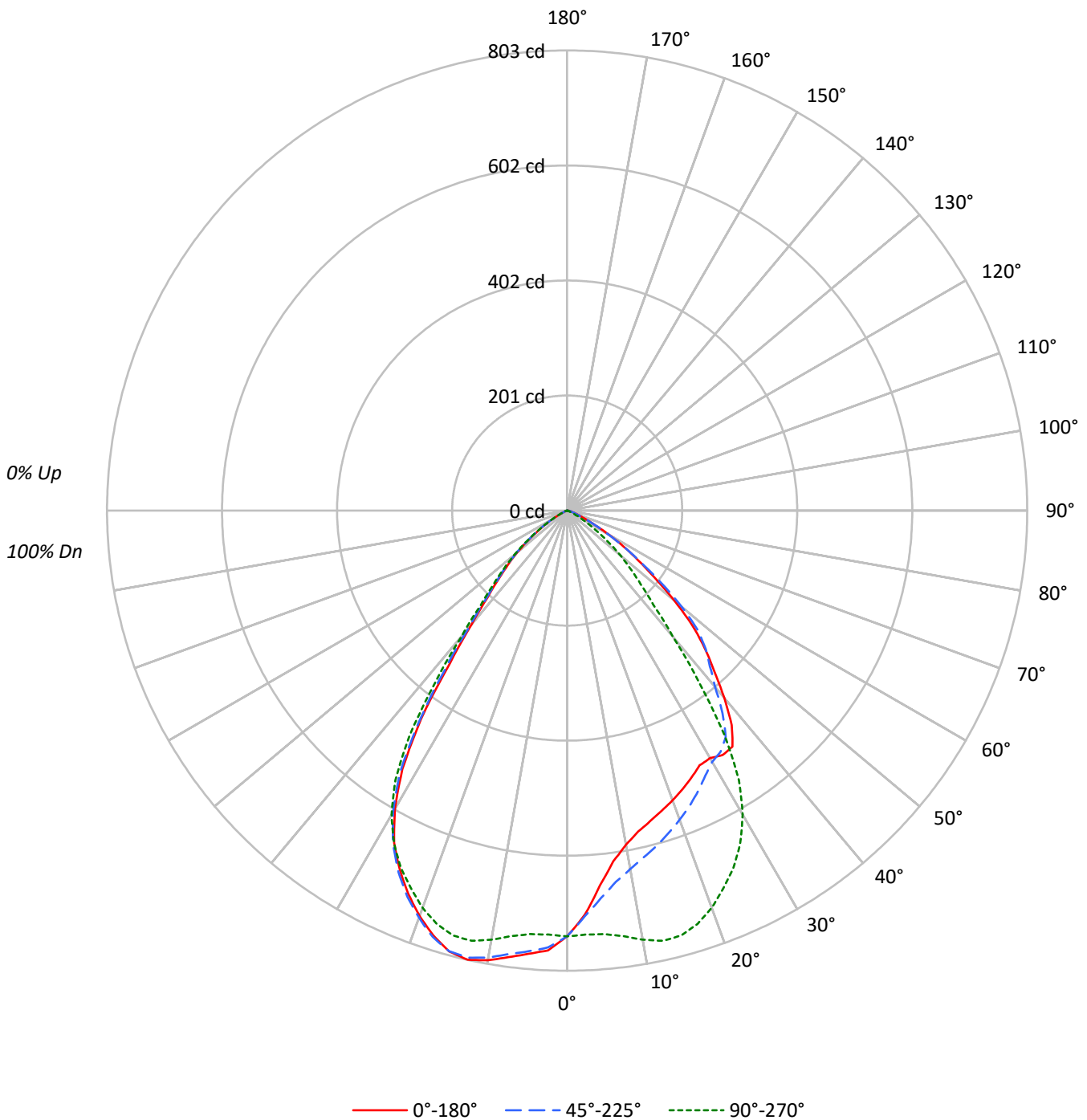
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	69.2	6.1
10°-20°	200.0	17.6
20°-30°	290.2	25.5
30°-40°	285.8	25.1
40°-50°	179.2	15.8
50°-60°	86.5	7.6
60°-70°	20.9	1.8
70°-80°	4.2	0.4
80°-90°	1.0	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°	559.4	49.2
0°-40°	845.2	74.3
0°-60°	1110.9	97.7
0°-90°	1137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1137.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	743	743	743	743	743	
5°	656	679	742	772	776	61
15°	561	605	768	796	796	159
25°	514	540	687	696	691	238
35°	503	482	480	452	445	304
45°	340	342	181	174	169	260
55°	151	156	66	65	62	139
65°	35	35	10	8	7	40
75°	9	7	2	1	1	10
85°	2	2	0	0	0	3
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°	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8
2.5°	706.1	701.6	693.2	703.4	703.4	697.7	709.0	702.2	707.7	716.2	708.6
5°	656.5	652.8	645.8	656.5	657.9	652.6	666.3	661.2	669.2	679.7	678.8
7.5°	617.3	612.6	606.2	617.3	619.4	615.9	629.0	626.7	637.2	650.9	653.2
10°	591.7	586.8	581.2	591.3	592.9	590.6	603.8	602.5	612.8	628.6	634.9
12.5°	573.6	569.5	563.2	574.0	575.7	572.4	584.9	584.3	595.0	611.6	619.4
15°	560.9	556.0	550.4	559.5	561.9	558.2	570.1	568.9	579.8	596.2	605.0
17.5°	549.0	544.5	538.6	547.2	549.6	545.7	557.4	555.4	564.8	580.4	589.4
20°	537.9	533.0	527.7	536.5	537.9	533.4	545.1	542.5	550.9	565.4	574.2
22.5°	526.3	521.3	515.8	524.4	525.8	521.3	532.0	529.1	536.9	550.0	558.0
25°	513.7	509.0	503.5	511.5	512.7	507.8	519.1	515.4	522.2	533.8	540.4
27.5°	501.0	496.5	490.4	498.6	499.2	494.5	504.9	499.8	505.5	516.0	521.7
30°	498.8	493.8	487.5	494.1	494.3	488.3	498.0	492.0	495.1	502.9	506.2
32.5°	505.7	500.6	494.1	499.6	499.0	492.4	501.8	494.3	495.3	499.4	498.6
35°	502.9	496.9	489.3	495.1	495.1	487.1	496.5	487.7	486.7	487.3	482.4
37.5°	471.9	467.2	460.0	465.7	465.1	459.0	466.2	459.0	455.7	454.3	445.6
40°	426.2	420.6	415.1	421.2	421.7	415.3	424.7	416.5	415.5	411.6	401.2
42.5°	380.0	378.0	372.8	377.8	380.6	375.1	382.9	379.0	379.6	378.6	368.9
45°	339.6	336.3	332.4	338.2	340.0	337.2	345.0	342.7	345.0	349.9	341.9
47.5°	296.1	292.7	288.4	294.7	297.8	292.7	299.4	298.6	302.1	310.5	309.7
50°	243.6	241.2	240.4	241.2	243.2	240.8	245.5	245.7	248.0	259.6	260.3
52.5°	192.8	192.2	189.5	192.0	192.0	188.3	193.0	190.9	193.2	201.0	206.1
55°	150.9	150.3	148.5	150.9	148.3	147.0	148.3	146.2	144.4	150.5	155.7
57.5°	117.5	115.5	113.4	114.4	114.2	111.2	112.8	110.3	108.9	111.0	115.7
60°	83.7	83.1	81.2	82.2	82.9	80.8	82.4	81.2	78.8	80.6	80.8
62.5°	55.6	56.0	54.8	55.0	54.4	54.1	55.0	55.6	55.0	54.3	54.4
65°	35.3	35.1	34.9	35.1	35.5	34.7	35.3	35.7	35.1	35.1	34.9
67.5°	23.4	22.8	22.2	22.6	23.0	22.4	23.0	22.8	23.0	22.8	22.2
70°	15.8	15.6	15.4	15.6	15.6	15.2	15.6	15.4	15.6	15.4	14.8
72.5°	11.5	11.5	11.3	11.5	11.5	11.1	11.3	10.9	11.1	10.9	10.5
75°	8.6	8.6	8.4	8.6	8.4	8.2	8.4	8.2	7.8	7.8	7.4
77.5°	6.2	6.2	6.2	6.2	6.2	6.0	6.0	5.9	5.7	5.5	5.5
80°	4.7	4.5	4.5	4.5	4.5	4.3	4.5	4.3	4.1	3.9	3.7
82.5°	3.3	3.5	3.3	3.3	3.3	3.1	3.3	3.1	3.1	2.9	2.5
85°	2.5	2.5	2.5	2.5	2.5	2.3	2.3	2.3	2.1	2.1	2.0
87.5°	1.4	1.4	1.4	1.6	1.4	1.4	1.4	1.2	1.2	1.0	1.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8
2.5°	718.8	719.8	717.6	720.9	733.8	723.5	727.8	729.1	738.9	740.6	739.5
5°	691.5	695.7	698.5	705.9	720.1	712.7	720.3	725.2	737.7	741.8	742.8
7.5°	670.0	679.0	685.6	697.7	714.5	708.8	720.3	728.3	743.6	748.8	751.4
10°	654.0	667.6	679.2	695.7	714.7	711.0	726.0	737.3	754.3	760.5	763.7
12.5°	641.9	658.5	673.9	695.0	715.5	713.7	731.9	744.7	762.7	768.9	772.6
15°	628.6	647.7	665.7	689.3	711.4	711.0	730.5	744.1	762.5	767.8	771.3
17.5°	612.8	633.3	653.0	678.6	700.4	700.8	720.5	734.0	752.0	756.2	758.6
20°	596.8	617.1	636.8	663.2	684.6	685.2	704.5	717.0	734.2	737.7	738.3
22.5°	579.8	598.8	618.5	644.6	665.3	665.7	684.8	696.5	711.2	712.9	714.5
25°	560.5	579.0	597.6	623.5	643.2	644.4	661.8	672.1	685.6	687.0	687.5
27.5°	540.4	555.6	573.4	595.6	615.5	614.8	631.1	642.9	655.0	654.2	654.0
30°	520.1	532.8	543.7	565.2	579.8	580.4	595.8	601.5	614.2	612.6	612.4
32.5°	505.9	509.2	512.1	523.0	536.9	532.0	542.5	549.6	558.4	557.8	558.0
35°	479.7	473.7	464.9	466.4	474.8	467.2	472.9	472.7	481.7	479.5	482.0
37.5°	435.0	417.8	398.3	387.2	388.8	379.2	377.2	381.9	385.1	379.0	381.1
40°	387.4	362.0	331.6	306.2	304.8	292.9	290.8	286.1	292.2	287.1	288.6
42.5°	352.3	318.7	278.7	247.9	241.2	231.3	225.4	224.6	226.4	222.9	221.9
45°	325.3	289.6	243.8	208.4	201.0	190.3	184.4	182.3	182.5	181.3	180.3
47.5°	293.7	257.8	211.4	175.3	166.9	156.7	150.9	149.5	150.3	148.7	147.5
50°	250.0	217.8	175.4	142.5	135.1	127.6	123.0	121.6	121.4	120.2	119.4
52.5°	203.0	176.2	139.5	112.0	105.4	98.2	94.8	93.1	93.3	92.1	90.9
55°	157.1	140.5	108.1	84.7	78.6	73.0	69.9	67.7	67.1	66.0	65.4
57.5°	116.9	105.8	81.0	61.1	57.6	52.1	49.0	46.4	46.1	45.5	45.3
60°	82.0	74.0	57.0	43.5	39.4	36.1	33.0	30.4	29.3	29.1	28.5
62.5°	53.1	48.2	37.5	29.1	26.0	23.6	20.5	18.7	18.0	17.2	17.4
65°	33.0	29.3	23.4	18.7	17.0	15.2	12.9	11.3	10.5	9.8	10.0
67.5°	20.5	18.3	14.8	12.1	10.9	9.6	7.8	6.6	6.0	5.5	5.1
70°	13.9	11.9	10.1	8.6	7.8	6.8	5.7	4.7	4.3	3.9	3.5
72.5°	9.8	8.8	7.4	6.4	5.9	5.1	4.3	3.7	3.3	2.9	2.5
75°	7.0	6.2	5.5	4.7	4.3	3.9	3.3	2.9	2.5	2.1	1.8
77.5°	5.1	4.5	3.9	3.5	3.3	2.7	2.3	2.1	2.0	1.6	1.2
80°	3.5	3.1	2.5	2.3	2.3	2.0	1.8	1.6	1.4	1.0	0.8
82.5°	2.3	2.1	2.0	1.8	1.6	1.4	1.4	1.0	0.8	0.6	0.4
85°	1.8	1.6	1.4	1.2	1.2	1.0	0.8	0.6	0.6	0.4	0.2
87.5°	1.0	1.0	0.8	0.6	0.6	0.4	0.4	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°	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8
2.5°	749.4	750.0	753.3	750.8	757.2	761.9	759.6	764.8	763.1	762.7	768.7
5°	754.5	755.9	760.3	758.0	765.0	770.1	767.8	773.6	771.9	771.5	777.7
7.5°	764.2	765.6	769.5	767.6	775.0	779.5	776.5	783.0	780.6	780.4	786.5
10°	776.5	778.5	781.8	779.9	786.7	790.6	787.7	793.9	791.8	790.8	797.4
12.5°	785.7	787.1	790.4	788.8	795.5	798.4	795.9	801.9	799.2	798.4	804.3
15°	783.6	784.9	787.7	786.3	792.5	795.3	792.0	798.6	795.9	794.3	799.6
17.5°	769.9	770.7	772.6	771.3	777.9	779.7	776.0	782.6	780.1	777.3	782.4
20°	749.8	749.4	750.6	750.0	755.5	756.4	754.1	759.0	756.0	754.5	757.4
22.5°	724.8	724.4	725.2	723.7	729.1	729.7	726.2	732.0	729.1	726.2	731.1
25°	697.1	695.0	694.6	695.2	698.9	699.5	695.7	700.0	696.3	694.0	698.7
27.5°	663.0	660.2	659.6	660.2	663.9	661.2	658.1	661.2	657.5	655.3	658.3
30°	620.8	616.9	615.1	614.0	617.9	616.9	609.7	613.2	607.3	604.2	606.4
32.5°	564.0	561.9	557.2	554.4	558.2	550.7	546.3	546.3	543.9	538.6	539.8
35°	485.2	481.9	477.6	475.2	475.8	465.8	458.4	460.0	452.2	450.8	451.4
37.5°	385.4	380.0	378.4	373.5	374.7	365.9	355.8	356.0	351.9	347.6	346.2
40°	289.6	288.6	287.1	283.0	284.5	275.0	271.1	271.3	268.5	265.4	267.0
42.5°	223.8	220.7	219.8	218.4	218.8	217.2	212.1	212.7	210.4	209.6	208.8
45°	181.9	178.6	176.2	177.4	177.4	175.6	173.7	174.9	173.7	172.1	172.9
47.5°	149.9	146.8	145.6	145.4	146.8	145.6	143.6	144.0	143.8	143.2	142.9
50°	119.6	118.9	117.9	117.3	117.9	117.5	115.7	116.7	117.3	115.3	115.9
52.5°	91.1	91.1	90.9	89.6	90.7	89.6	89.4	89.8	89.2	88.4	88.2
55°	66.7	66.2	65.2	65.0	65.4	65.0	64.6	64.8	65.2	63.2	63.2
57.5°	45.7	45.3	44.7	44.7	45.5	44.5	43.9	44.7	43.9	43.1	43.1
60°	29.3	29.1	28.5	28.5	28.5	28.3	27.7	27.9	28.3	27.1	27.3
62.5°	17.6	17.0	16.8	16.6	16.8	16.6	16.6	16.4	16.2	16.2	15.6
65°	9.6	9.2	8.8	9.0	9.0	8.8	8.8	8.8	8.4	8.2	8.0
67.5°	4.9	4.5	4.5	4.3	4.3	4.3	4.3	4.1	4.1	4.1	3.9
70°	3.1	2.9	2.7	2.7	2.7	2.5	2.5	2.5	2.5	2.5	2.3
72.5°	2.1	2.0	1.8	1.8	1.8	1.6	1.6	1.6	1.6	1.4	1.4
75°	1.6	1.4	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.6	0.4
80°	0.6	0.6	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2
82.5°	0.4	0.4	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°	742.8	742.8	742.8	742.8	742.8	742.8	742.8	742.8
2.5°	766.6	765.0	766.0	773.2	770.1	769.1	760.9	768.1
5°	775.8	774.6	774.6	782.8	779.1	778.3	770.3	776.5
7.5°	784.3	783.2	783.4	791.8	788.8	787.7	779.7	785.9
10°	795.5	794.7	794.9	802.9	799.8	798.6	790.4	796.8
12.5°	802.1	800.9	800.9	809.5	806.0	804.3	796.4	802.7
15°	797.0	795.3	795.3	803.9	800.0	797.4	790.6	796.4
17.5°	779.7	777.9	777.9	785.3	782.4	778.7	771.7	777.1
20°	755.5	753.3	752.7	761.3	757.2	753.9	747.7	752.9
22.5°	728.1	727.2	725.4	734.0	730.3	726.8	720.1	724.2
25°	695.4	693.8	692.0	700.4	696.7	693.2	687.9	691.3
27.5°	654.6	654.8	653.8	660.4	656.7	654.8	648.3	653.8
30°	605.2	603.0	602.3	610.1	606.6	604.0	596.0	601.3
32.5°	540.8	537.7	533.6	542.3	536.3	534.2	527.3	534.9
35°	447.1	446.1	442.4	449.8	446.5	442.6	438.3	444.8
37.5°	345.6	346.4	346.0	348.0	346.0	343.5	338.8	336.5
40°	263.9	261.9	260.3	263.9	259.8	259.8	257.0	260.0
42.5°	206.9	206.1	208.0	208.8	206.5	206.1	205.7	205.5
45°	170.8	170.8	171.2	171.9	171.2	170.8	169.6	168.8
47.5°	140.7	141.5	140.7	143.2	141.9	141.5	139.1	140.1
50°	114.0	113.0	114.0	114.8	114.9	113.8	112.6	113.2
52.5°	88.4	86.8	86.5	87.6	86.8	86.8	86.1	85.9
55°	62.3	62.8	61.9	62.8	62.5	61.9	61.3	62.1
57.5°	42.2	42.3	42.0	42.5	41.6	41.8	41.6	41.4
60°	27.3	26.5	26.5	27.1	26.2	26.2	26.0	26.0
62.5°	15.6	15.4	15.4	15.2	15.0	15.0	15.0	14.6
65°	8.0	7.8	7.6	7.6	7.6	7.6	7.4	7.4
67.5°	3.9	3.7	3.7	3.9	3.7	3.7	3.7	3.7
70°	2.3	2.3	2.1	2.3	2.1	2.1	2.1	2.1
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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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