

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: P244153

Luminaire Tested: **LSR8B15D010 EC8B15930 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244153
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 EC8B15930 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: 1348.5 lumens
Efficiency: N/A
Efficacy: 93.6 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

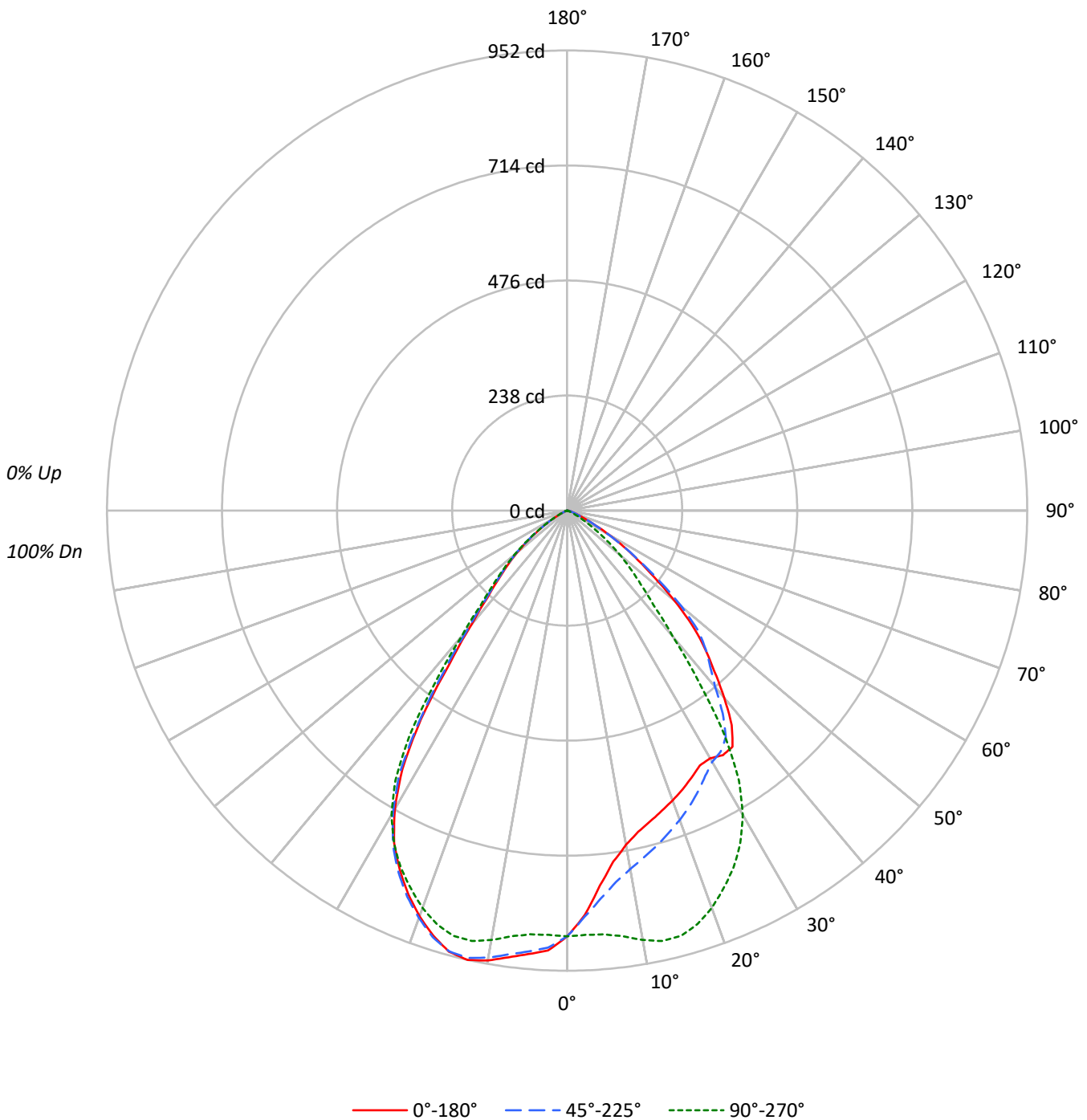
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	82.1	6.1
10°-20°	237.2	17.6
20°-30°	344.2	25.5
30°-40°	339.0	25.1
40°-50°	212.5	15.8
50°-60°	102.5	7.6
60°-70°	24.8	1.8
70°-80°	5.0	0.4
80°-90°	1.1	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°	663.5	49.2
0°-40°	1002.5	74.3
0°-60°	1317.6	97.7
0°-90°	1348.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1348.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	881	881	881	881	881	
5°	779	805	880	916	921	72
15°	665	718	911	944	945	188
25°	609	641	815	826	820	282
35°	596	572	569	536	528	361
45°	403	406	215	206	200	308
55°	179	185	78	77	74	165
65°	42	42	12	10	9	48
75°	10	9	3	1	1	11
85°	3	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°	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0
2.5°	837.5	832.1	822.1	834.2	834.2	827.5	841.0	832.8	839.3	849.5	840.5
5°	778.6	774.3	766.0	778.6	780.3	774.1	790.3	784.3	793.7	806.2	805.1
7.5°	732.1	726.6	719.0	732.1	734.7	730.6	746.0	743.2	755.8	771.9	774.7
10°	701.9	696.0	689.3	701.4	703.2	700.4	716.2	714.5	726.9	745.6	753.0
12.5°	680.3	675.4	668.0	680.8	682.8	678.9	693.7	693.0	705.8	725.4	734.7
15°	665.2	659.5	652.8	663.6	666.4	662.1	676.2	674.7	687.7	707.1	717.6
17.5°	651.2	645.8	638.9	649.1	651.9	647.2	661.1	658.8	669.9	688.4	699.1
20°	638.0	632.1	625.9	636.3	638.0	632.6	646.5	643.5	653.4	670.6	681.0
22.5°	624.3	618.2	611.7	621.9	623.6	618.2	631.0	627.5	636.8	652.3	661.8
25°	609.3	603.7	597.2	606.7	608.0	602.3	615.8	611.3	619.5	633.0	641.0
27.5°	594.2	588.9	581.7	591.4	592.1	586.5	598.8	592.8	599.5	612.1	618.7
30°	591.7	585.6	578.2	586.1	586.3	579.1	590.8	583.6	587.3	596.5	600.4
32.5°	599.7	593.7	586.1	592.6	591.9	584.0	595.1	586.3	587.5	592.3	591.4
35°	596.5	589.3	580.3	587.3	587.3	577.8	588.9	578.4	577.3	578.0	572.2
37.5°	559.7	554.1	545.6	552.3	551.6	544.5	553.0	544.5	540.5	538.9	528.4
40°	505.6	498.8	492.3	499.5	500.2	492.6	503.7	493.9	492.8	488.2	475.9
42.5°	450.6	448.4	442.1	448.2	451.4	444.9	454.1	449.5	450.2	449.1	437.5
45°	402.8	398.9	394.3	401.1	403.2	400.0	409.3	406.5	409.3	415.0	405.6
47.5°	351.1	347.2	342.1	349.5	353.2	347.2	355.1	354.1	358.3	368.2	367.4
50°	288.9	286.1	285.2	286.1	288.4	285.6	291.2	291.5	294.2	307.8	308.8
52.5°	228.7	228.0	224.8	227.8	227.8	223.4	228.9	226.3	229.1	238.4	244.5
55°	178.9	178.2	176.1	178.9	175.9	174.3	175.9	173.4	171.3	178.5	184.7
57.5°	139.3	137.0	134.5	135.6	135.4	131.9	133.8	130.8	129.1	131.7	137.2
60°	99.3	98.6	96.3	97.4	98.4	95.8	97.6	96.3	93.5	95.6	95.8
62.5°	65.9	66.5	65.0	65.2	64.6	64.1	65.2	65.9	65.2	64.3	64.6
65°	41.9	41.7	41.5	41.7	42.1	41.3	41.9	42.4	41.7	41.7	41.5
67.5°	27.8	27.1	26.3	26.9	27.4	26.6	27.4	27.1	27.4	27.1	26.3
70°	18.7	18.5	18.3	18.5	18.5	18.0	18.5	18.3	18.5	18.3	17.6
72.5°	13.7	13.7	13.5	13.7	13.7	13.2	13.5	13.0	13.2	13.0	12.6
75°	10.2	10.2	10.0	10.2	10.0	9.8	10.0	9.8	9.3	9.3	8.7
77.5°	7.4	7.4	7.4	7.4	7.4	7.2	7.2	7.0	6.7	6.5	6.5
80°	5.6	5.3	5.3	5.3	5.3	5.0	5.3	5.0	4.8	4.6	4.4
82.5°	3.9	4.1	3.9	3.9	3.9	3.7	3.9	3.7	3.7	3.5	3.0
85°	3.0	3.0	3.0	3.0	3.0	2.8	2.8	2.8	2.6	2.6	2.4
87.5°	1.6	1.6	1.6	1.9	1.6	1.6	1.6	1.3	1.3	1.1	1.1
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°	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0
2.5°	852.5	853.6	851.2	855.1	870.3	858.1	863.2	864.7	876.4	878.4	877.1
5°	820.1	825.2	828.4	837.3	854.1	845.3	854.3	860.1	874.9	879.9	881.0
7.5°	794.7	805.3	813.2	827.5	847.5	840.8	854.3	863.8	881.9	888.2	891.2
10°	775.6	791.9	805.6	825.2	847.7	843.2	861.0	874.5	894.7	902.1	905.8
12.5°	761.3	781.0	799.3	824.3	848.6	846.5	868.0	883.3	904.6	912.0	916.4
15°	745.6	768.2	789.5	817.5	843.8	843.2	866.4	882.6	904.4	910.6	914.7
17.5°	726.9	751.2	774.5	804.9	830.8	831.2	854.7	870.6	891.9	896.9	899.7
20°	707.8	731.9	755.3	786.5	812.1	812.7	835.6	850.4	870.8	874.9	875.6
22.5°	687.7	710.2	733.6	764.5	789.1	789.5	812.3	826.2	843.4	845.6	847.5
25°	664.8	686.8	708.8	739.5	763.0	764.3	784.9	797.1	813.2	814.7	815.5
27.5°	641.0	659.0	680.1	706.5	730.1	729.1	748.6	762.5	776.9	775.8	775.6
30°	616.9	631.9	644.9	670.4	687.7	688.4	706.7	713.4	728.4	726.6	726.4
32.5°	600.0	603.9	607.4	620.4	636.8	631.0	643.5	651.9	662.3	661.5	661.8
35°	568.9	561.7	551.4	553.2	563.2	554.1	560.8	560.6	571.3	568.7	571.7
37.5°	516.0	495.6	472.4	459.3	461.1	449.7	447.4	453.0	456.7	449.5	452.1
40°	459.5	429.3	393.2	363.2	361.5	347.4	344.9	339.3	346.5	340.4	342.4
42.5°	417.8	378.0	330.6	293.9	286.1	274.3	267.4	266.5	268.5	264.3	263.2
45°	385.8	343.5	289.1	247.2	238.4	225.7	218.7	216.2	216.5	215.0	213.9
47.5°	348.4	305.8	250.7	207.8	197.9	185.9	178.9	177.3	178.2	176.3	175.0
50°	296.5	258.3	208.1	168.9	160.2	151.3	145.8	144.2	143.9	142.6	141.7
52.5°	240.7	209.1	165.5	132.8	125.0	116.5	112.5	110.4	110.6	109.3	107.8
55°	186.3	166.7	128.2	100.4	93.3	86.5	82.8	80.4	79.6	78.2	77.6
57.5°	138.7	125.4	96.1	72.4	68.3	61.8	58.1	55.0	54.6	53.9	53.7
60°	97.2	87.8	67.6	51.6	46.7	42.8	39.1	36.1	34.8	34.5	33.7
62.5°	63.0	57.2	44.4	34.5	30.8	28.0	24.3	22.2	21.3	20.4	20.6
65°	39.1	34.8	27.8	22.2	20.2	18.0	15.2	13.5	12.6	11.5	11.8
67.5°	24.3	21.7	17.6	14.3	13.0	11.3	9.3	7.8	7.2	6.5	6.1
70°	16.5	14.1	12.0	10.2	9.3	8.1	6.7	5.6	5.0	4.6	4.1
72.5°	11.5	10.4	8.7	7.6	7.0	6.1	5.0	4.4	3.9	3.5	3.0
75°	8.3	7.4	6.5	5.6	5.0	4.6	3.9	3.5	3.0	2.6	2.1
77.5°	6.1	5.3	4.6	4.1	3.9	3.3	2.8	2.6	2.4	1.9	1.3
80°	4.1	3.7	3.0	2.8	2.8	2.4	2.1	1.9	1.6	1.1	0.9
82.5°	2.8	2.6	2.4	2.1	1.9	1.6	1.6	1.1	0.9	0.7	0.4
85°	2.1	1.9	1.6	1.3	1.3	1.1	0.9	0.7	0.7	0.4	0.2
87.5°	1.1	1.1	0.9	0.7	0.7	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°	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0
2.5°	888.8	889.5	893.4	890.5	898.1	903.6	900.9	907.1	905.1	904.6	911.8
5°	894.9	896.5	901.8	899.0	907.3	913.4	910.6	917.5	915.5	915.0	922.5
7.5°	906.4	908.1	912.7	910.4	919.2	924.5	921.0	928.6	925.9	925.6	932.8
10°	921.0	923.4	927.3	924.9	933.1	937.7	934.2	941.6	939.1	937.9	945.8
12.5°	931.9	933.6	937.5	935.6	943.4	946.9	944.0	951.2	947.9	946.9	953.9
15°	929.4	931.0	934.2	932.6	940.1	943.2	939.3	947.2	944.0	942.1	948.4
17.5°	913.2	914.1	916.4	914.7	922.7	924.7	920.3	928.2	925.2	921.9	928.0
20°	889.3	888.8	890.3	889.5	896.0	897.1	894.4	900.2	896.7	894.9	898.4
22.5°	859.7	859.2	860.1	858.3	864.7	865.5	861.3	868.2	864.7	861.3	867.1
25°	826.8	824.3	823.8	824.5	828.9	829.7	825.2	830.3	826.0	823.2	828.6
27.5°	786.3	783.1	782.3	783.1	787.5	784.3	780.6	784.3	779.9	777.3	780.8
30°	736.3	731.7	729.7	728.2	732.8	731.7	723.2	727.3	720.4	716.7	719.2
32.5°	669.0	666.4	660.8	657.6	662.1	653.2	647.9	647.9	645.1	638.9	640.2
35°	575.4	571.5	566.4	563.6	564.3	552.5	543.7	545.6	536.3	534.7	535.4
37.5°	457.1	450.6	448.8	443.0	444.5	434.1	421.9	422.2	417.3	412.3	410.6
40°	343.5	342.4	340.4	335.6	337.5	326.1	321.5	321.7	318.5	314.8	316.7
42.5°	265.5	261.8	260.6	259.1	259.5	257.6	251.7	252.3	249.5	248.6	247.6
45°	215.7	211.8	209.1	210.4	210.4	208.3	206.0	207.4	206.0	204.1	205.0
47.5°	177.8	174.1	172.6	172.4	174.1	172.6	170.4	170.8	170.6	169.9	169.4
50°	141.9	141.0	139.8	139.1	139.8	139.3	137.2	138.4	139.1	136.8	137.5
52.5°	108.1	108.1	107.8	106.3	107.6	106.3	106.0	106.5	105.8	104.8	104.6
55°	79.1	78.5	77.3	77.1	77.6	77.1	76.6	76.9	77.3	75.0	75.0
57.5°	54.1	53.7	53.0	53.0	53.9	52.8	52.1	53.0	52.1	51.1	51.1
60°	34.8	34.5	33.7	33.7	33.7	33.5	32.8	33.1	33.5	32.2	32.4
62.5°	20.9	20.2	20.0	19.7	20.0	19.7	19.7	19.4	19.2	19.2	18.5
65°	11.3	10.9	10.4	10.6	10.6	10.4	10.4	10.4	10.0	9.8	9.5
67.5°	5.8	5.3	5.3	5.0	5.0	5.0	5.0	4.8	4.8	4.8	4.6
70°	3.7	3.5	3.3	3.3	3.3	3.0	3.0	3.0	3.0	3.0	2.8
72.5°	2.6	2.4	2.1	2.1	2.1	1.9	1.9	1.9	1.9	1.6	1.6
75°	1.9	1.6	1.3	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	1.1	0.9	0.9	0.9	0.9	0.7	0.7	0.7	0.7	0.7	0.4
80°	0.7	0.7	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°	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0
2.5°	909.2	907.3	908.6	917.1	913.4	912.3	902.5	911.0
5°	920.1	918.8	918.8	928.4	924.0	923.1	913.6	921.0
7.5°	930.3	928.9	929.1	939.1	935.6	934.2	924.7	932.1
10°	943.4	942.5	942.8	952.3	948.6	947.2	937.5	945.1
12.5°	951.4	949.9	949.9	960.1	956.0	953.9	944.7	952.1
15°	945.3	943.2	943.2	953.4	948.8	945.8	937.7	944.7
17.5°	924.7	922.7	922.7	931.4	928.0	923.6	915.3	921.7
20°	896.0	893.4	892.8	903.0	898.1	894.2	886.8	893.0
22.5°	863.6	862.5	860.4	870.6	866.2	862.0	854.1	859.0
25°	824.7	822.9	820.8	830.8	826.4	822.1	816.0	819.9
27.5°	776.4	776.6	775.4	783.4	778.9	776.6	769.0	775.4
30°	717.8	715.2	714.3	723.6	719.5	716.4	706.9	713.2
32.5°	641.4	637.7	632.8	643.2	636.1	633.6	625.4	634.5
35°	530.3	529.1	524.7	533.6	529.6	525.0	519.9	527.5
37.5°	409.9	410.8	410.4	412.8	410.4	407.4	401.9	399.1
40°	313.0	310.6	308.8	313.0	308.1	308.1	304.8	308.3
42.5°	245.4	244.5	246.7	247.6	244.9	244.5	243.9	243.7
45°	202.6	202.6	203.0	203.9	203.0	202.6	201.1	200.2
47.5°	166.9	167.8	166.9	169.9	168.3	167.8	165.0	166.2
50°	135.2	134.1	135.2	136.1	136.3	135.0	133.5	134.3
52.5°	104.8	103.0	102.6	103.9	103.0	103.0	102.1	101.9
55°	73.9	74.5	73.4	74.5	74.1	73.4	72.6	73.6
57.5°	50.0	50.2	49.8	50.4	49.3	49.5	49.3	49.1
60°	32.4	31.5	31.5	32.2	31.1	31.1	30.8	30.8
62.5°	18.5	18.3	18.3	18.0	17.8	17.8	17.8	17.4
65°	9.5	9.3	9.1	9.1	9.1	9.1	8.7	8.7
67.5°	4.6	4.4	4.4	4.6	4.4	4.4	4.4	4.4
70°	2.8	2.8	2.6	2.8	2.6	2.6	2.6	2.6
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	0.7	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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