

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: P245448

Luminaire Tested: **LSR8B10D010 EC8B10930 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245448
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 EC8B10930 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 959.5 lumens
Efficiency: N/A
Efficacy: 94.1 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

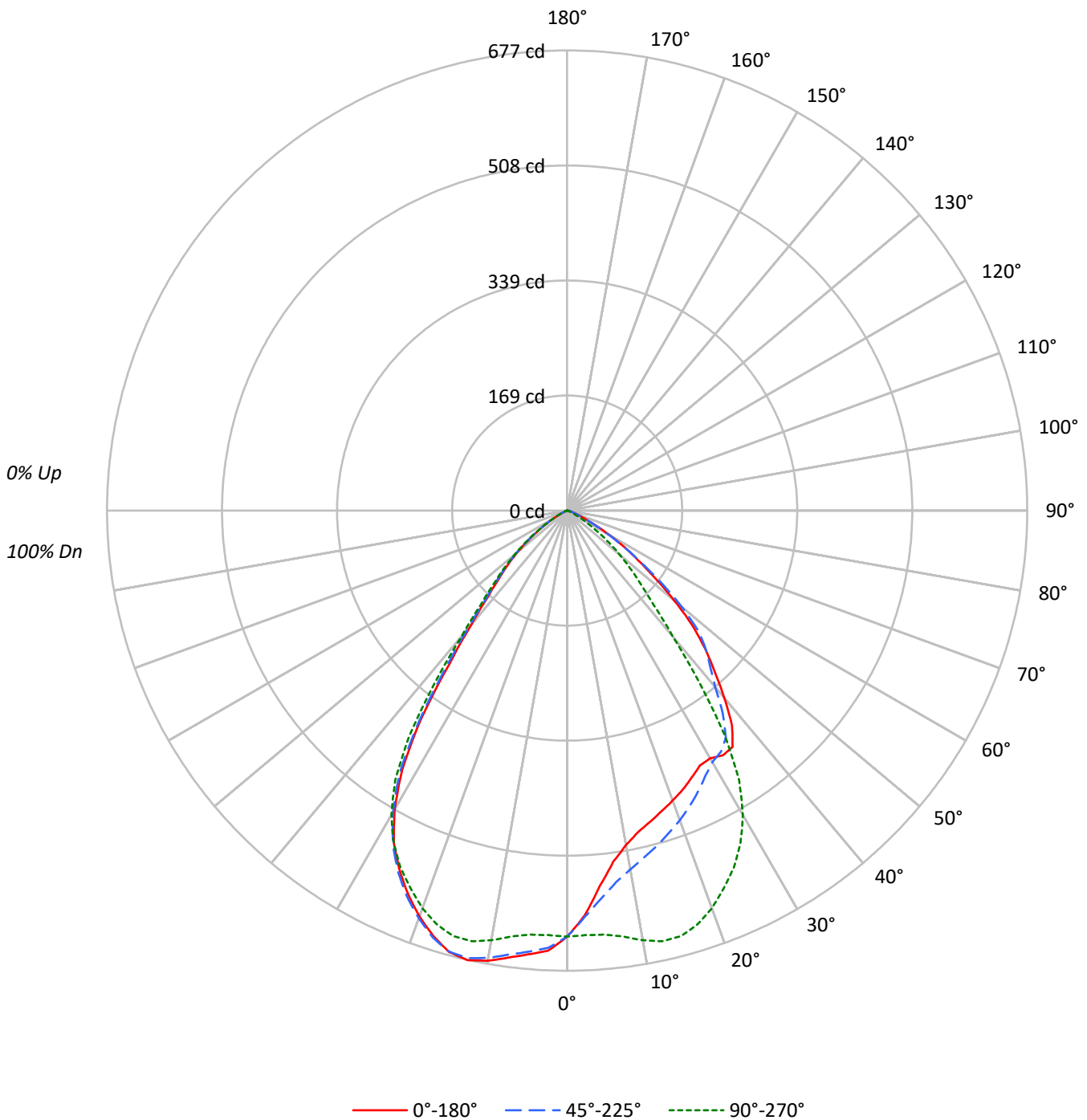
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	58.4	6.1
10°-20°	168.8	17.6
20°-30°	244.9	25.5
30°-40°	241.2	25.1
40°-50°	151.2	15.8
50°-60°	73.0	7.6
60°-70°	17.7	1.8
70°-80°	3.6	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°	472.1	49.2
0°-40°	713.3	74.3
0°-60°	937.5	97.7
0°-90°	959.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	959.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	627	627	627	627	627	
5°	554	573	626	651	655	51
15°	473	511	648	672	672	134
25°	434	456	580	588	583	201
35°	424	407	405	382	375	257
45°	287	288	153	147	142	219
55°	127	131	56	55	52	117
65°	30	30	8	7	6	34
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°	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9
2.5°	595.9	592.1	585.0	593.6	593.6	588.9	598.4	592.6	597.3	604.4	598.1
5°	554.1	551.0	545.0	554.1	555.2	550.7	562.3	558.0	564.8	573.6	572.8
7.5°	520.9	517.0	511.6	520.9	522.7	519.8	530.8	528.9	537.7	549.3	551.3
10°	499.4	495.3	490.5	499.1	500.4	498.4	509.6	508.5	517.2	530.6	535.8
12.5°	484.0	480.6	475.3	484.4	485.8	483.0	493.6	493.1	502.2	516.2	522.7
15°	473.4	469.3	464.4	472.2	474.2	471.0	481.1	480.1	489.3	503.2	510.6
17.5°	463.3	459.5	454.6	461.9	463.8	460.5	470.4	468.8	476.6	489.9	497.4
20°	453.9	449.9	445.4	452.8	453.9	450.2	460.1	457.9	465.0	477.2	484.6
22.5°	444.3	439.9	435.3	442.6	443.7	439.9	449.0	446.5	453.1	464.1	470.9
25°	433.5	429.6	425.0	431.7	432.7	428.6	438.1	434.9	440.8	450.4	456.0
27.5°	422.8	419.0	413.9	420.8	421.3	417.3	426.1	421.8	426.5	435.5	440.2
30°	420.9	416.7	411.4	417.0	417.2	412.1	420.4	415.2	417.9	424.4	427.2
32.5°	426.8	422.5	417.0	421.6	421.2	415.6	423.5	417.2	418.0	421.5	420.8
35°	424.4	419.4	412.9	417.9	417.9	411.1	419.0	411.6	410.7	411.3	407.1
37.5°	398.3	394.3	388.2	393.0	392.5	387.4	393.5	387.4	384.6	383.4	376.0
40°	359.7	354.9	350.3	355.5	355.9	350.5	358.4	351.4	350.6	347.4	338.7
42.5°	320.7	319.0	314.6	318.9	321.2	316.6	323.2	319.8	320.4	319.5	311.3
45°	286.6	283.8	280.5	285.4	286.9	284.6	291.2	289.2	291.2	295.3	288.5
47.5°	249.9	247.1	243.5	248.7	251.3	247.1	252.7	252.0	254.9	262.1	261.4
50°	205.6	203.6	202.9	203.6	205.3	203.2	207.2	207.4	209.3	219.0	219.7
52.5°	162.8	162.2	160.0	162.1	162.1	159.0	162.9	161.1	163.1	169.6	174.0
55°	127.3	126.8	125.3	127.3	125.2	124.0	125.2	123.3	121.9	127.0	131.4
57.5°	99.2	97.5	95.7	96.5	96.4	93.8	95.2	93.0	91.9	93.7	97.6
60°	70.6	70.2	68.5	69.4	70.0	68.2	69.5	68.5	66.6	68.0	68.2
62.5°	47.0	47.3	46.3	46.4	46.0	45.6	46.4	47.0	46.4	45.7	46.0
65°	29.8	29.6	29.5	29.6	29.9	29.4	29.8	30.2	29.6	29.6	29.5
67.5°	19.7	19.3	18.7	19.1	19.4	18.9	19.4	19.3	19.4	19.3	18.7
70°	13.3	13.2	13.0	13.2	13.2	12.9	13.2	13.0	13.2	13.0	12.6
72.5°	9.8	9.8	9.5	9.8	9.8	9.4	9.5	9.2	9.4	9.2	8.9
75°	7.3	7.3	7.1	7.3	7.1	7.0	7.1	7.0	6.6	6.6	6.3
77.5°	5.3	5.3	5.3	5.3	5.3	5.2	5.2	4.9	4.8	4.6	4.6
80°	3.9	3.8	3.8	3.8	3.8	3.6	3.8	3.6	3.5	3.3	3.1
82.5°	2.8	2.9	2.8	2.8	2.8	2.7	2.8	2.7	2.7	2.5	2.1
85°	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	1.8	1.8	1.7
87.5°	1.1	1.1	1.1	1.3	1.1	1.1	1.1	1.0	1.0	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°	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9
2.5°	606.6	607.5	605.7	608.5	619.2	610.6	614.2	615.3	623.6	625.1	624.1
5°	583.6	587.2	589.5	595.7	607.8	601.5	607.9	612.1	622.6	626.1	626.9
7.5°	565.4	573.1	578.7	588.9	603.0	598.2	607.9	614.6	627.5	632.0	634.1
10°	552.0	563.4	573.2	587.2	603.1	600.1	612.7	622.3	636.6	641.9	644.5
12.5°	541.7	555.7	568.7	586.5	603.8	602.3	617.7	628.5	643.7	648.9	652.1
15°	530.6	546.7	561.8	581.7	600.4	600.1	616.6	628.0	643.5	647.9	651.0
17.5°	517.2	534.5	551.1	572.7	591.1	591.4	608.1	619.5	634.6	638.2	640.2
20°	503.7	520.8	537.4	559.7	577.8	578.3	594.6	605.1	619.6	622.6	623.1
22.5°	489.3	505.3	521.9	544.0	561.5	561.8	578.0	587.9	600.2	601.6	603.0
25°	473.1	488.6	504.3	526.2	542.9	543.9	558.5	567.2	578.7	579.8	580.2
27.5°	456.0	468.9	483.9	502.7	519.5	518.8	532.7	542.6	552.8	552.1	552.0
30°	439.0	449.6	458.8	477.0	489.3	489.9	502.9	507.6	518.4	517.0	516.9
32.5°	426.9	429.7	432.1	441.4	453.1	449.0	457.9	463.8	471.3	470.7	470.9
35°	404.8	399.7	392.4	393.7	400.8	394.3	399.1	399.0	406.5	404.7	406.8
37.5°	367.1	352.7	336.2	326.8	328.1	320.0	318.4	322.3	325.0	319.8	321.7
40°	327.0	305.6	279.8	258.4	257.3	247.2	245.4	241.5	246.6	242.2	243.6
42.5°	297.3	268.9	235.2	209.2	203.6	195.2	190.2	189.6	191.0	188.1	187.3
45°	274.5	244.4	205.7	175.9	169.6	160.6	155.6	153.8	154.0	153.0	152.2
47.5°	247.9	217.6	178.4	147.9	140.8	132.3	127.3	126.1	126.8	125.6	124.5
50°	211.0	183.8	148.1	120.3	114.0	107.7	103.8	102.6	102.5	101.5	100.8
52.5°	171.3	148.8	117.8	94.5	88.9	82.8	80.0	78.6	78.7	77.7	76.8
55°	132.6	118.6	91.2	71.5	66.4	61.7	59.0	57.2	56.6	55.7	55.2
57.5°	98.6	89.2	68.4	51.6	48.5	43.9	41.4	39.2	38.9	38.3	38.2
60°	69.2	62.4	48.1	36.8	33.3	30.5	27.8	25.7	24.7	24.5	24.1
62.5°	44.8	40.7	31.6	24.5	21.9	20.0	17.3	15.8	15.1	14.5	14.7
65°	27.8	24.7	19.7	15.8	14.3	12.9	10.9	9.5	8.9	8.2	8.4
67.5°	17.3	15.5	12.6	10.2	9.2	8.1	6.6	5.6	5.2	4.6	4.3
70°	11.7	10.1	8.5	7.3	6.6	5.7	4.8	3.9	3.6	3.3	2.9
72.5°	8.2	7.4	6.3	5.4	4.9	4.3	3.6	3.1	2.8	2.5	2.1
75°	5.9	5.3	4.6	3.9	3.6	3.3	2.8	2.5	2.1	1.8	1.5
77.5°	4.3	3.8	3.3	2.9	2.8	2.4	2.0	1.8	1.7	1.3	1.0
80°	2.9	2.7	2.1	2.0	2.0	1.7	1.5	1.3	1.1	0.8	0.7
82.5°	2.0	1.8	1.7	1.5	1.3	1.1	1.1	0.8	0.7	0.4	0.3
85°	1.5	1.3	1.1	1.0	1.0	0.8	0.7	0.4	0.4	0.3	0.1
87.5°	0.8	0.8	0.7	0.4	0.4	0.3	0.3	0.1	0.1	0.1	0.1
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9
2.5°	632.5	632.9	635.7	633.6	639.1	643.0	641.0	645.5	644.0	643.7	648.7
5°	636.7	638.0	641.7	639.8	645.7	650.0	647.9	652.9	651.4	651.1	656.3
7.5°	645.0	646.1	649.4	647.8	654.1	657.8	655.3	660.8	658.8	658.7	663.7
10°	655.3	657.0	659.8	658.1	664.0	667.2	664.8	670.0	668.2	667.4	672.9
12.5°	663.1	664.3	667.1	665.8	671.4	673.8	671.7	676.7	674.5	673.8	678.8
15°	661.3	662.4	664.8	663.6	668.9	671.1	668.3	673.9	671.7	670.4	674.8
17.5°	649.7	650.4	652.1	651.0	656.6	658.0	654.9	660.5	658.4	656.0	660.3
20°	632.8	632.5	633.5	632.9	637.6	638.4	636.4	640.5	638.1	636.7	639.2
22.5°	611.7	611.4	612.1	610.7	615.3	615.9	612.9	617.8	615.3	612.9	617.0
25°	588.3	586.5	586.2	586.7	589.8	590.3	587.2	590.8	587.6	585.7	589.6
27.5°	559.5	557.2	556.7	557.2	560.3	558.0	555.3	558.0	554.9	553.1	555.6
30°	524.0	520.6	519.1	518.1	521.5	520.6	514.5	517.5	512.5	509.9	511.7
32.5°	476.0	474.2	470.3	467.9	471.0	464.8	461.1	461.1	459.0	454.6	455.6
35°	409.5	406.7	403.0	401.1	401.5	393.1	386.9	388.2	381.6	380.5	380.9
37.5°	325.3	320.7	319.4	315.2	316.2	308.8	300.2	300.4	297.0	293.4	292.2
40°	244.4	243.6	242.2	238.8	240.1	232.0	228.8	228.9	226.7	224.0	225.3
42.5°	188.9	186.3	185.4	184.3	184.6	183.3	179.0	179.6	177.6	176.9	176.2
45°	153.5	150.7	148.8	149.8	149.8	148.2	146.6	147.5	146.6	145.3	146.0
47.5°	126.4	123.9	122.9	122.7	123.9	122.9	121.2	121.5	121.4	120.8	120.6
50°	101.0	100.3	99.4	99.0	99.4	99.2	97.6	98.5	99.0	97.3	97.9
52.5°	76.9	76.9	76.8	75.6	76.6	75.6	75.4	75.8	75.2	74.7	74.4
55°	56.3	55.8	55.0	54.8	55.2	54.8	54.5	54.7	55.0	53.4	53.4
57.5°	38.6	38.2	37.7	37.7	38.3	37.6	37.1	37.7	37.1	36.4	36.4
60°	24.7	24.5	24.1	24.1	24.1	23.9	23.4	23.5	23.9	22.9	23.1
62.5°	14.8	14.3	14.1	14.0	14.1	14.0	14.0	13.8	13.7	13.7	13.2
65°	8.1	7.7	7.4	7.6	7.6	7.4	7.4	7.4	7.1	7.0	6.7
67.5°	4.1	3.8	3.8	3.6	3.6	3.6	3.6	3.5	3.5	3.5	3.3
70°	2.7	2.5	2.4	2.4	2.4	2.1	2.1	2.1	2.1	2.1	2.0
72.5°	1.8	1.7	1.5	1.5	1.5	1.3	1.3	1.3	1.3	1.1	1.1
75°	1.3	1.1	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.3
80°	0.4	0.4	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1
82.5°	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
85°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
87.5°	0.1	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°	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9
2.5°	646.9	645.7	646.5	652.5	650.0	649.1	642.2	648.3
5°	654.7	653.8	653.8	660.6	657.5	656.8	650.1	655.3
7.5°	662.0	660.9	661.2	668.2	665.8	664.8	658.0	663.3
10°	671.4	670.7	670.8	677.6	675.0	673.9	667.1	672.5
12.5°	677.0	676.0	676.0	683.2	680.2	678.8	672.2	677.4
15°	672.7	671.1	671.1	678.4	675.2	672.9	667.2	672.2
17.5°	658.0	656.6	656.6	662.7	660.3	657.1	651.3	655.9
20°	637.6	635.7	635.3	642.6	639.1	636.3	631.0	635.4
22.5°	614.5	613.7	612.2	619.5	616.3	613.4	607.8	611.2
25°	586.8	585.5	584.0	591.1	588.0	585.0	580.6	583.4
27.5°	552.4	552.5	551.8	557.4	554.2	552.5	547.2	551.8
30°	510.7	508.9	508.3	514.9	512.0	509.7	503.0	507.5
32.5°	456.4	453.8	450.3	457.7	452.7	450.8	445.0	451.4
35°	377.3	376.5	373.4	379.7	376.9	373.5	369.9	375.3
37.5°	291.7	292.4	292.0	293.7	292.0	289.9	286.0	283.9
40°	222.6	221.1	219.7	222.6	219.3	219.3	216.9	219.4
42.5°	174.5	174.0	175.5	176.2	174.2	174.0	173.6	173.4
45°	144.2	144.2	144.5	145.1	144.5	144.2	143.2	142.5
47.5°	118.7	119.4	118.7	120.8	119.7	119.4	117.5	118.3
50°	96.2	95.4	96.2	96.9	97.0	96.1	95.1	95.5
52.5°	74.7	73.3	73.0	74.0	73.3	73.3	72.6	72.4
55°	52.6	53.0	52.2	53.0	52.7	52.2	51.7	52.4
57.5°	35.5	35.8	35.4	35.9	35.1	35.2	35.1	34.9
60°	23.1	22.4	22.4	22.9	22.1	22.1	21.9	21.9
62.5°	13.2	13.0	13.0	12.9	12.7	12.7	12.7	12.3
65°	6.7	6.6	6.4	6.4	6.4	6.4	6.3	6.3
67.5°	3.3	3.1	3.1	3.3	3.1	3.1	3.1	3.1
70°	2.0	2.0	1.8	2.0	1.8	1.8	1.8	1.8
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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

(END OF REPORT)