

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P937339

Luminaire Tested: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937339
REPORT IS A COMBINATION OF REPORTS P933512 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

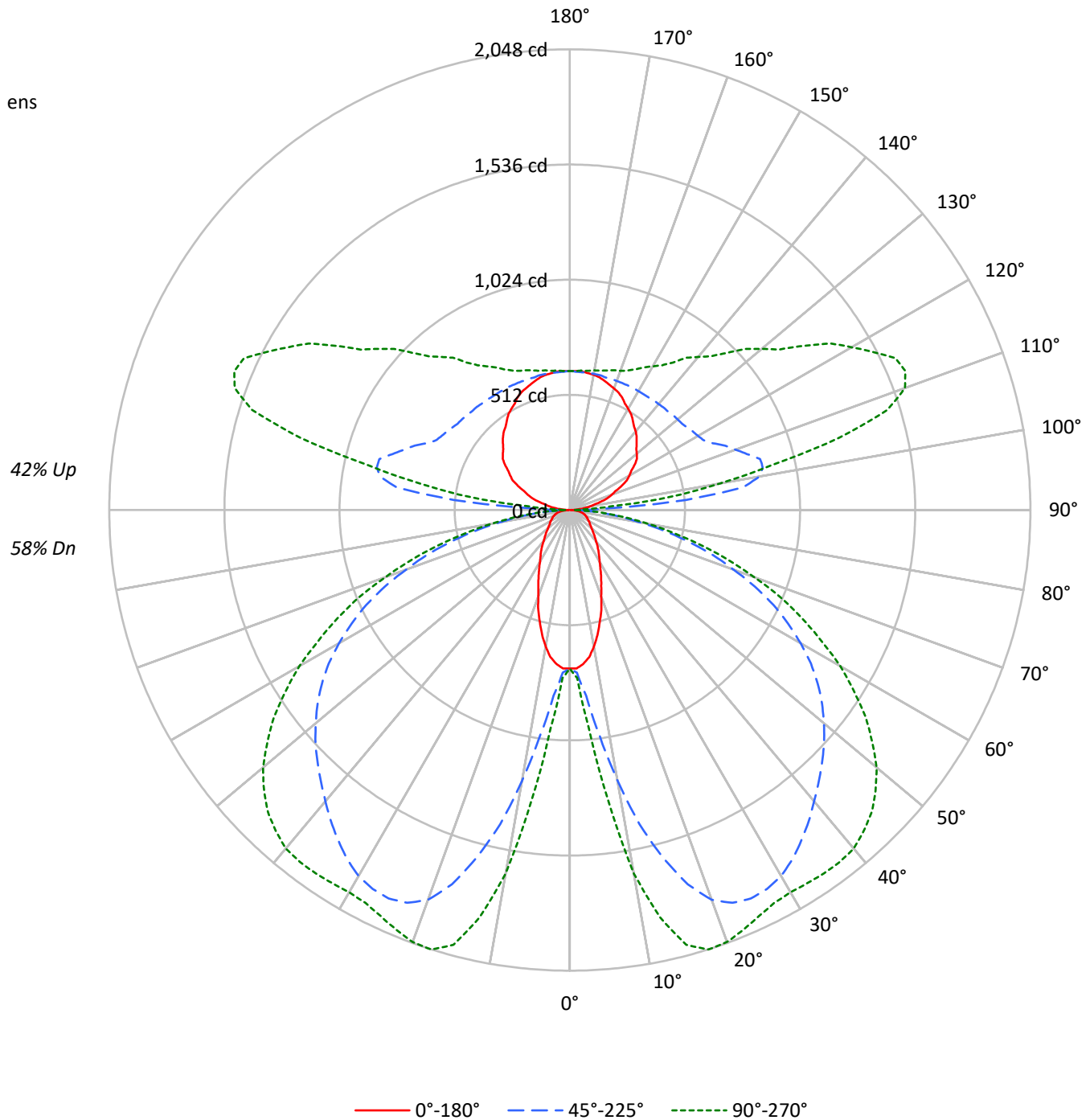
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9462.7 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 93
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: 24 FT

TEST NUMBER: P937339
CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-6-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P937339

CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-6-3500K

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	50	30	10	0
RCR																					
0	109	109	109	109	101	101	101	101	88	88	88	75	75	75	63	63	63	58			58
1	99	94	90	86	92	88	84	81	76	73	71	65	63	61	55	53	52	47			47
2	89	82	75	69	83	76	70	65	66	61	57	56	53	50	47	45	43	38			38
3	81	71	63	57	75	66	59	54	57	52	47	49	45	41	41	38	36	32			32
4	74	62	54	48	68	58	51	45	50	45	40	43	39	35	36	33	30	27			27
5	68	55	47	40	63	52	44	38	45	39	34	38	34	30	33	29	26	23			23
6	62	49	41	35	57	46	38	33	40	34	29	34	29	26	29	25	22	19			19
7	57	44	36	30	53	41	34	28	36	30	25	31	26	22	26	22	19	17			17
8	53	40	32	26	49	37	30	25	33	27	22	28	23	20	24	20	17	15			15
9	49	36	28	23	46	34	27	22	30	24	20	26	21	17	22	18	15	13			13
10	46	33	26	21	43	31	24	20	27	22	18	24	19	16	20	16	14	12			12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4359	4359	4359
5°	4257	5037	5860
10°	3860	7341	9714
15°	3279	9588	11729
20°	2668	11108	11954
25°	2226	11622	11711
30°	1876	11692	11689
35°	1658	11495	11992
40°	1444	11239	12303
45°	1306	11051	12352
50°	1197	10881	12147
55°	1145	10634	11609
60°	1171	10162	10758
65°	1217	9447	9591
70°	1294	8233	8103
75°	1429	6707	6322
80°	1549	4646	4261
85°	1353	2460	2180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12352 cd/sqm



TEST NUMBER: P937339

CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-6-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	1.0
10°-20°	404.0	4.3
20°-30°	706.6	7.5
30°-40°	909.6	9.6
40°-50°	1016.0	10.7
50°-60°	973.1	10.3
60°-70°	771.2	8.1
70°-80°	453.5	4.8
80°-90°	128.3	1.4
90°-100°	301.4	3.2
100°-110°	792.6	8.4
110°-120°	821.8	8.7
120°-130°	659.2	7.0
130°-140°	517.2	5.5
140°-150°	397.0	4.2
150°-160°	285.9	3.0
160°-170°	174.9	1.8
170°-180°	59.1	0.6
0°-30°	1201.8	12.7
0°-40°	2111.4	22.3
0°-60°	4100.6	43.3
0°-90°	5453.6	57.6
90°-120°	1915.8	20.2
90°-150°	3489.2	36.9
90°-180°	4009.0	42.4
0°-180°	9462.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	705	705	705	705	705	
5°	686	736	829	938	972	63
15°	514	949	1600	1940	2001	143
25°	329	1076	1906	1989	1992	151
35°	222	1029	1794	1896	1971	139
45°	152	820	1586	1817	1899	117
55°	109	521	1346	1563	1606	99
65°	86	276	999	1124	1140	85
75°	64	170	548	603	605	66
85°	23	52	136	150	152	24
90°	4	12	32	16	16	5
95°	40	156	519	268	182	44
105°	143	216	876	1330	1241	151
115°	254	308	702	1400	1598	250
125°	353	396	638	1079	1273	313
135°	420	463	618	871	987	325
145°	488	519	611	743	801	306
155°	551	566	611	670	690	253
165°	595	603	611	635	642	168
175°	618	618	615	623	623	59
180°	618	618	618	618	618	



TEST NUMBER: P937339

CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	704.6	704.6	704.6	704.6	704.6	704.6	704.6	704.6	704.6	704.6	704.6
2.5°	704.6	704.6	709.2	711.4	716.0	718.3	722.8	727.3	740.9	743.2	747.7
5°	686.5	695.6	725.1	736.4	768.1	811.1	829.2	858.7	919.9	938.1	949.4
7.5°	659.4	679.7	752.2	770.3	849.7	963.0	1010.5	1074.0	1171.4	1219.0	1257.5
10°	616.3	659.4	788.5	831.6	960.7	1132.9	1221.3	1309.7	1456.9	1522.6	1547.5
12.5°	568.7	638.9	827.0	885.9	1071.7	1323.2	1429.7	1527.1	1694.8	1783.2	1796.8
15°	514.3	609.5	863.3	949.4	1189.5	1481.8	1599.7	1719.7	1876.1	1939.5	1955.4
17.5°	466.8	586.8	897.3	987.9	1280.2	1624.6	1744.6	1844.3	1971.3	2014.3	2025.6
20°	407.8	550.6	919.9	1037.8	1375.3	1728.8	1844.3	1921.4	2007.5	2034.6	2039.2
22.5°	364.8	512.1	933.5	1055.9	1438.8	1792.2	1889.7	1950.8	2009.7	2018.8	2021.1
25°	328.6	469.0	931.3	1076.2	1493.2	1830.8	1905.6	1950.8	1984.8	1989.4	1989.4
27.5°	294.6	421.4	922.2	1080.8	1534.0	1839.8	1898.7	1930.5	1946.3	1955.4	1955.4
30°	265.1	376.2	899.5	1071.7	1552.1	1830.8	1878.3	1894.2	1910.0	1923.7	1930.5
32.5°	242.4	333.0	865.5	1053.6	1554.3	1808.1	1842.1	1851.1	1873.8	1905.6	1916.8
35°	222.1	290.0	827.0	1028.7	1540.8	1771.9	1794.5	1803.5	1848.9	1896.5	1912.3
37.5°	201.6	258.3	777.2	985.6	1520.3	1728.8	1744.6	1760.5	1830.8	1887.4	1905.6
40°	181.3	231.1	718.3	938.1	1488.6	1676.7	1690.3	1715.2	1808.1	1873.8	1891.9
42.5°	165.4	208.4	654.8	888.2	1447.8	1617.8	1638.1	1674.4	1780.9	1851.1	1871.6
45°	151.8	185.8	586.8	820.2	1395.7	1556.6	1586.0	1635.9	1749.2	1817.2	1835.3
47.5°	138.2	170.0	516.6	750.0	1339.1	1495.4	1534.0	1590.6	1706.2	1771.9	1787.7
50°	126.8	154.1	446.4	675.2	1277.9	1429.7	1475.1	1534.0	1651.8	1712.9	1733.3
52.5°	117.8	140.5	380.6	600.5	1207.6	1361.7	1413.8	1475.1	1586.0	1644.9	1658.6
55°	108.7	129.2	324.0	521.1	1135.1	1289.2	1345.9	1404.8	1513.5	1563.4	1572.4
57.5°	104.3	120.1	276.4	446.4	1058.1	1207.6	1271.1	1325.5	1427.5	1465.9	1475.1
60°	97.4	113.3	240.2	382.9	974.3	1130.6	1185.0	1239.4	1325.5	1357.2	1364.0
62.5°	90.6	108.7	213.0	321.7	888.2	1040.0	1094.4	1144.2	1216.7	1239.4	1248.4
65°	86.1	104.3	192.6	276.4	799.8	944.8	999.2	1042.2	1101.1	1123.8	1128.4
67.5°	81.6	99.7	176.7	237.9	711.4	849.7	890.5	931.3	976.5	999.2	1001.5
70°	74.8	95.2	163.2	210.7	620.8	740.9	774.9	817.9	854.2	865.5	872.4
72.5°	70.2	88.4	154.1	190.3	527.9	636.7	668.4	693.3	725.1	736.4	736.4
75°	63.5	79.3	145.1	170.0	432.7	521.1	548.3	573.2	598.1	602.7	595.9
77.5°	56.7	70.2	124.6	142.7	337.6	412.4	435.1	448.6	469.0	473.5	475.9
80°	47.6	61.1	97.4	111.0	244.7	303.6	319.5	330.8	348.9	348.9	353.5
82.5°	36.2	47.6	70.2	79.3	165.4	208.4	222.1	228.9	240.2	240.2	240.2
85°	22.7	29.5	45.3	52.1	99.7	126.8	135.9	138.2	147.3	149.5	149.5
87.5°	11.3	15.9	29.5	31.7	52.1	65.7	65.7	70.2	70.2	68.0	65.7
90°	4.1	7.4	10.8	11.6	18.2	27.0	31.5	28.0	21.1	15.8	15.8
92.5°	16.6	44.8	73.0	80.1	112.6	155.9	177.6	155.7	111.8	78.8	75.7
95°	39.8	91.5	143.1	156.0	277.1	438.5	519.2	463.4	351.5	267.7	258.2
97.5°	68.9	114.4	160.0	171.4	373.3	642.4	777.0	741.7	671.1	618.1	599.9
100°	91.3	132.6	174.0	184.3	408.3	707.0	856.3	858.9	864.1	867.9	846.4
102.5°	110.4	149.0	187.5	197.2	424.4	727.2	878.7	923.7	1013.7	1081.2	1062.8
105°	142.8	175.5	208.2	216.3	436.2	729.5	876.2	977.1	1178.9	1330.3	1320.4
107.5°	176.0	206.5	236.9	244.5	438.5	697.0	826.4	967.2	1248.7	1459.8	1462.2
110°	198.4	225.9	253.3	260.2	435.1	668.3	784.9	942.2	1257.0	1493.0	1503.4



TEST NUMBER: P937339

CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	220.4	246.5	272.8	279.3	435.2	643.1	747.1	908.2	1230.2	1471.8	1487.6
115°	253.6	277.8	301.9	308.0	439.3	614.3	701.9	857.0	1167.3	1400.0	1421.9
117.5°	286.4	308.3	330.3	335.8	447.5	596.3	670.7	810.8	1090.8	1300.8	1325.2
120°	305.5	326.2	346.8	352.0	454.1	590.2	658.3	786.2	1042.0	1234.0	1257.7
122.5°	324.2	345.0	365.9	371.1	463.6	587.1	648.8	763.9	994.3	1167.1	1190.5
125°	352.8	371.8	390.8	395.5	476.5	584.4	638.4	736.2	932.0	1078.7	1100.2
127.5°	376.1	395.3	414.4	419.2	489.3	582.9	629.7	713.6	881.7	1007.8	1026.0
130°	388.5	409.2	429.8	435.0	498.8	583.9	626.4	701.2	850.8	963.0	979.7
132.5°	401.3	422.0	442.7	447.8	506.4	584.4	623.4	690.4	824.3	924.8	939.8
135°	420.4	439.3	458.1	462.8	514.7	583.9	618.4	674.5	786.7	870.8	883.7
137.5°	440.0	458.5	477.2	481.8	527.1	587.4	617.6	665.0	759.8	830.9	841.6
140°	456.1	473.3	490.5	494.8	534.8	588.1	614.7	655.6	737.6	799.0	808.9
142.5°	468.6	484.5	500.4	504.3	541.1	590.1	614.7	650.6	722.6	776.6	785.1
145°	487.7	501.6	515.3	518.8	549.4	590.2	610.6	640.0	698.8	742.9	749.4
147.5°	506.7	520.2	533.7	537.1	561.5	594.2	610.6	633.7	680.0	714.7	720.1
150°	519.2	531.4	543.6	546.6	568.0	596.4	610.6	630.1	669.2	698.6	702.9
152.5°	532.1	541.4	550.6	552.9	572.1	597.7	610.6	627.2	660.6	685.7	689.0
155°	551.2	558.0	564.8	566.5	581.2	600.7	610.6	623.9	650.5	670.4	672.5
157.5°	565.3	572.0	578.6	580.3	590.4	603.9	610.6	620.9	641.5	657.1	658.6
160°	574.8	580.0	585.2	586.5	594.5	605.2	610.6	619.4	637.1	650.4	651.3
162.5°	584.4	588.3	592.2	593.1	598.9	606.7	610.6	618.1	633.0	644.2	645.0
165°	594.8	598.3	601.8	602.7	605.3	608.8	610.6	615.9	626.6	634.7	635.5
167.5°	604.3	606.0	607.6	608.1	610.3	613.2	614.7	618.1	625.2	630.5	630.8
170°	610.6	612.2	613.9	614.3	614.4	614.6	614.7	618.1	625.2	630.5	630.5
172.5°	613.9	614.2	614.6	614.7	614.7	614.7	614.7	617.4	623.0	627.2	626.8
175°	618.4	618.4	618.4	618.4	617.2	615.5	614.7	616.4	619.9	622.6	622.6
177.5°	618.4	618.4	618.4	618.4	617.4	616.2	615.6	617.0	619.7	621.8	621.4
180°	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4



TEST NUMBER: P937339

CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°
0°	704.6	704.6
2.5°	752.2	747.7
5°	967.5	972.1
7.5°	1302.9	1300.5
10°	1620.0	1640.5
12.5°	1851.1	1855.7
15°	1991.6	2000.7
17.5°	2046.0	2048.3
20°	2048.3	2043.7
22.5°	2023.3	2018.8
25°	1993.8	1991.6
27.5°	1966.7	1968.9
30°	1955.4	1962.2
32.5°	1955.4	1966.7
35°	1959.9	1971.3
37.5°	1957.6	1971.3
40°	1948.6	1964.4
42.5°	1923.7	1935.0
45°	1885.1	1898.7
47.5°	1835.3	1844.3
50°	1771.9	1780.9
52.5°	1692.5	1694.8
55°	1597.3	1606.4
57.5°	1495.4	1497.6
60°	1382.1	1388.9
62.5°	1262.1	1262.1
65°	1135.1	1139.7
67.5°	1003.8	1015.1
70°	870.0	872.4
72.5°	738.6	738.6
75°	602.7	604.9
77.5°	473.5	473.5
80°	351.2	353.5
82.5°	242.4	247.0
85°	151.8	151.8
87.5°	70.2	63.5
90°	15.8	15.8
92.5°	63.1	50.6
95°	220.2	182.2
97.5°	527.6	455.3
100°	760.2	674.0
102.5°	989.0	915.2
105°	1280.6	1241.0
107.5°	1471.8	1481.3
110°	1544.6	1585.9



TEST NUMBER: P937339

CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1551.1	1614.6
115°	1510.0	1598.0
117.5°	1422.7	1520.3
120°	1352.5	1447.3
122.5°	1284.0	1377.6
125°	1186.5	1272.6
127.5°	1098.6	1171.3
130°	1046.9	1114.0
132.5°	999.9	1060.1
135°	935.6	987.4
137.5°	884.0	926.5
140°	848.6	888.2
142.5°	819.2	853.3
145°	775.2	801.0
147.5°	741.4	762.8
150°	720.3	737.6
152.5°	702.0	715.2
155°	681.2	689.8
157.5°	664.6	670.7
160°	654.7	658.3
162.5°	648.3	651.6
165°	639.0	642.5
167.5°	632.3	633.8
170°	630.5	630.5
172.5°	625.5	624.2
175°	622.6	622.6
177.5°	619.9	618.4
180°	618.4	618.4



TEST NUMBER: P937339

CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-6-3500K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	6.78	7.76	7.66	8.67	9.82	19.95	20.93	20.83	21.84	22.99
	3H	7.50	8.38	8.39	9.30	10.47	21.79	22.67	22.68	23.59	24.77
	4H	7.80	8.64	8.71	9.56	10.75	22.44	23.27	23.35	24.20	25.38
	6H	8.06	8.83	8.98	9.76	10.96	22.87	23.64	23.79	24.57	25.77
	8H	8.13	8.86	9.06	9.81	11.01	22.99	23.73	23.92	24.67	25.88
	12H	8.15	8.85	9.08	9.79	11.02	23.06	23.76	24.00	24.70	25.93
4H	2H	14.00	14.84	14.92	15.76	16.95	20.24	21.07	21.15	21.99	23.18
	3H	15.58	16.28	16.51	17.24	18.44	22.29	22.99	23.21	23.94	25.15
	4H	15.68	16.32	16.62	17.27	18.50	23.06	23.70	23.99	24.64	25.87
	6H	15.70	16.26	16.65	17.23	18.45	23.60	24.15	24.55	25.12	26.35
	8H	15.68	16.20	16.63	17.16	18.41	23.76	24.28	24.71	25.25	26.49
	12H	15.64	16.11	16.62	17.09	18.34	23.86	24.33	24.83	25.31	26.56
8H	4H	17.14	17.65	18.09	18.62	19.86	23.13	23.65	24.08	24.61	25.86
	6H	17.38	17.81	18.36	18.82	20.06	23.76	24.19	24.74	25.20	26.44
	8H	17.40	17.78	18.39	18.78	20.04	23.98	24.36	24.96	25.35	26.61
	12H	17.38	17.71	18.37	18.70	20.01	24.13	24.46	25.12	25.45	26.76
12H	4H	17.28	17.75	18.25	18.73	19.98	23.09	23.56	24.06	24.54	25.79
	6H	17.64	18.02	18.63	19.02	20.28	23.74	24.12	24.73	25.12	26.38
	8H	17.72	18.05	18.71	19.04	20.35	23.98	24.31	24.97	25.30	26.61