

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: INVUE

Report Number: P675748

Luminaire Tested: **CCW-SA-2A-830-U-SL4**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675748
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-830-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL4 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

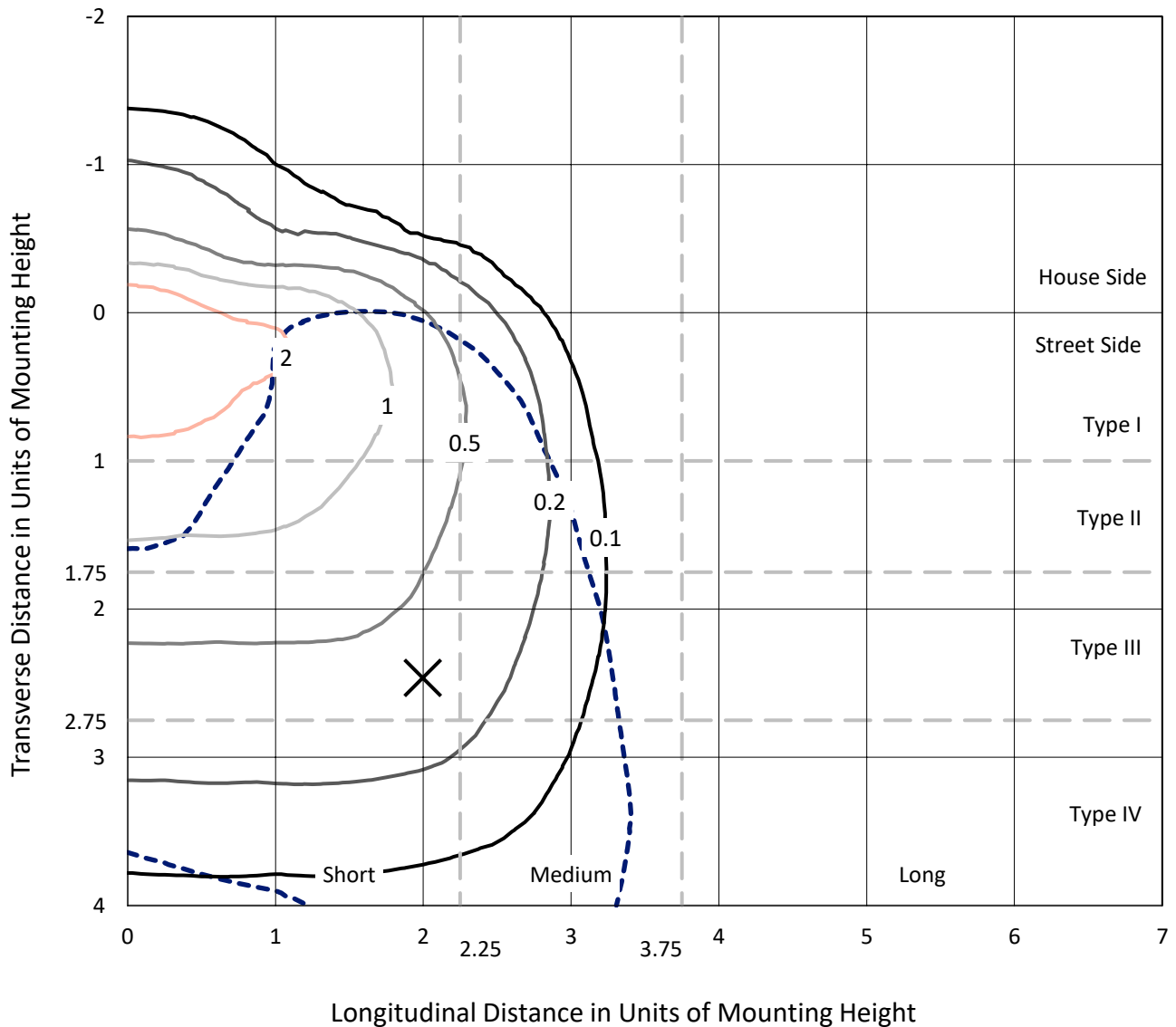
Lumens per Lamp: N/A
Luminaire Lumens: 4260.4 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 36.2
Input Voltage (V): 120
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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Iso-Footcandle Lines of Horizontal Illumination

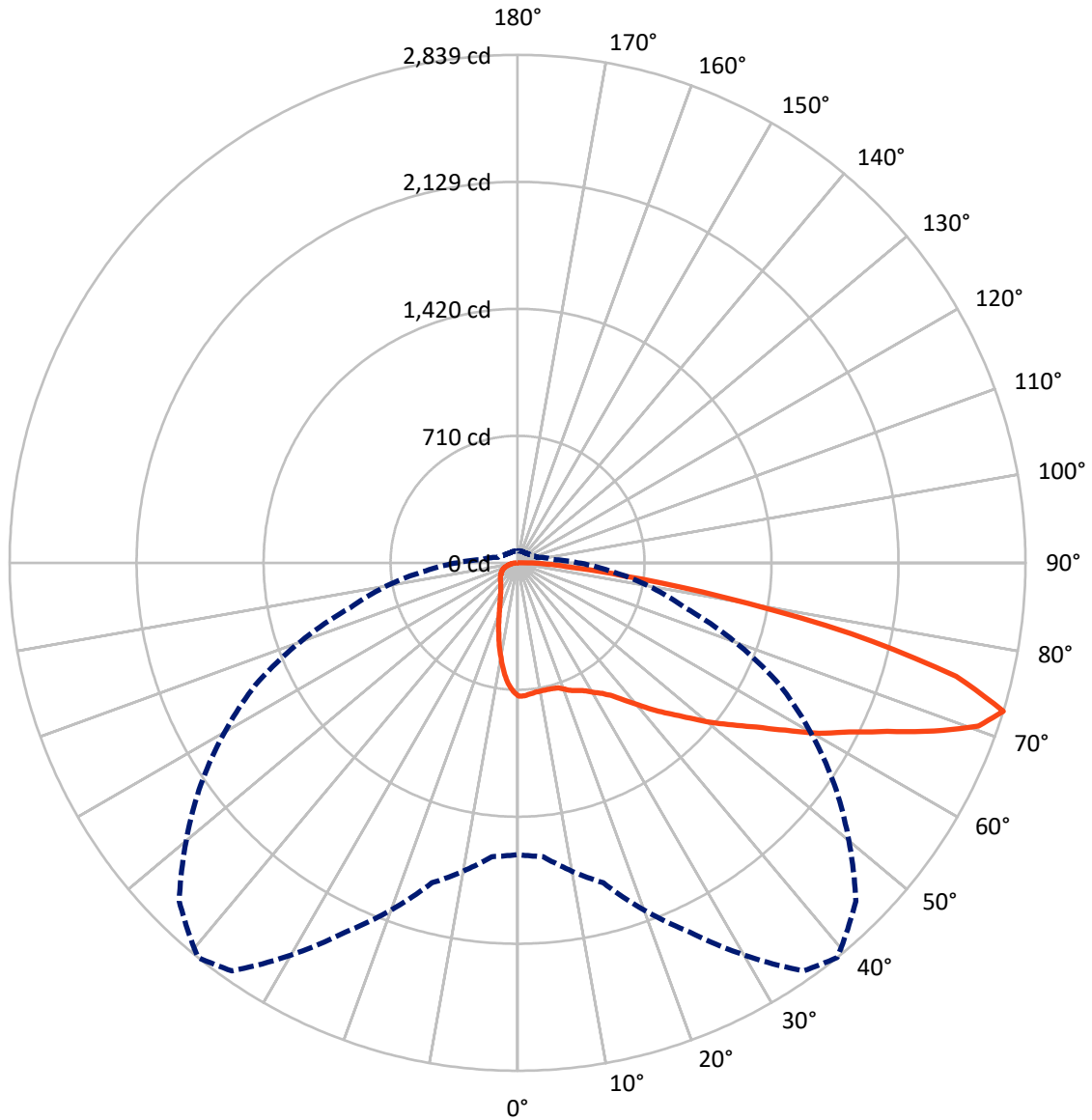
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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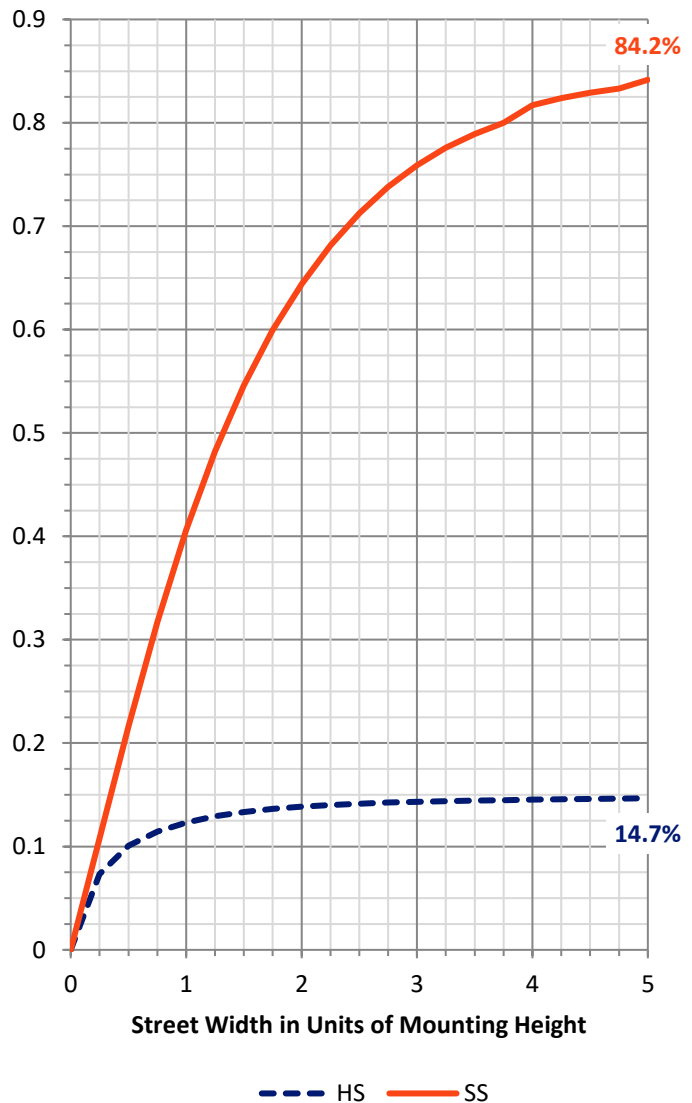
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	633.1	0.0	633.1
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	3627.3	0.0	3627.3
	% Fixture	85.1	0.0	85.1
Total	Lumens	4260.4	0.0	4260.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	1.5
10°-20°	168.2	3.9
20°-30°	256.2	6.0
30°-40°	374.8	8.8
40°-50°	573.9	13.5
50°-60°	841.6	19.8
60°-70°	1073.4	25.2
70°-80°	775.5	18.2
80°-90°	130.8	3.1
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°-90°	4260.4	100.0
0°-180°	4260.4	100.0

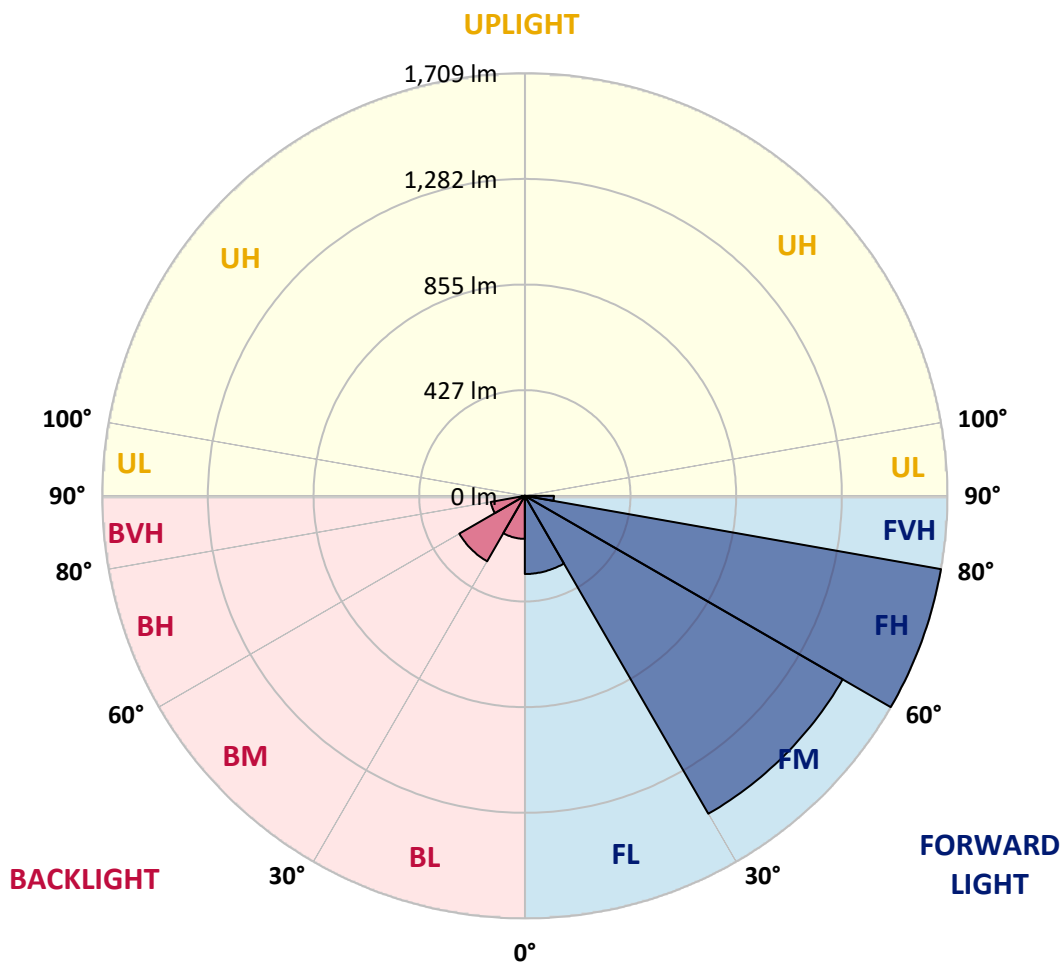


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	316.2	7.4			
FM (30°-60°)	1484.5	34.8			
FH (60°-80°)	1709.1	40.1			G1/1800
FVH (80°-90°)	117.6	2.8			G2/225
BL (0°-30°)	174.1	4.1	B1/500		
BM (30°-60°)	305.9	7.2	B1/1000		
BH (60°-80°)	139.9	3.3	B1/500		G1/500
BVH (80°-90°)	13.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8
2.5°	757.0	758.6	755.4	752.2	750.6	744.2	750.6	747.4	744.2	744.2	744.2
5°	747.4	749.0	749.0	745.8	747.4	736.2	734.6	736.2	731.4	728.2	726.6
7.5°	733.0	736.2	742.6	741.0	734.6	729.8	731.4	729.8	721.8	717.0	704.2
10°	721.8	725.0	728.2	731.4	729.8	728.2	726.6	720.2	718.6	707.4	694.6
12.5°	710.6	710.6	712.2	725.0	726.6	726.6	717.0	717.0	712.2	710.6	691.4
15°	699.4	704.2	717.0	720.2	726.6	729.8	725.0	725.0	717.0	705.8	691.4
17.5°	702.6	710.6	723.4	731.4	734.6	734.6	741.0	736.2	725.0	718.6	704.2
20°	718.6	720.2	736.2	750.6	753.8	753.8	747.4	742.6	734.6	723.4	704.2
22.5°	728.2	739.4	758.6	766.6	776.2	776.2	768.2	757.0	745.8	734.6	713.8
25°	769.8	771.4	779.4	792.2	797.0	790.6	782.6	769.8	755.4	744.2	725.0
27.5°	798.6	806.6	816.2	822.6	814.6	809.8	803.4	789.0	777.8	768.2	741.0
30°	851.4	841.8	848.2	851.4	837.0	840.2	822.6	809.8	797.0	797.0	766.6
32.5°	883.4	891.4	885.0	883.4	872.2	870.6	859.4	845.0	837.0	846.6	805.0
35°	939.4	934.6	934.6	933.0	920.2	912.2	912.2	886.6	894.6	915.4	864.2
37.5°	968.2	966.6	976.2	984.2	971.4	976.2	971.4	960.2	963.4	1000.2	937.8
40°	997.0	1008.2	1027.4	1030.6	1038.6	1045.0	1041.8	1040.2	1053.0	1112.3	1037.0
42.5°	1024.2	1033.8	1062.6	1088.2	1107.5	1128.3	1129.9	1129.9	1171.5	1256.3	1157.1
45°	1059.4	1067.4	1107.5	1158.7	1190.7	1205.1	1217.9	1232.3	1288.3	1389.1	1285.1
47.5°	1107.5	1113.9	1161.9	1225.9	1288.3	1296.3	1321.9	1337.9	1422.7	1525.1	1416.3
50°	1176.3	1171.5	1209.9	1302.7	1363.5	1401.9	1438.7	1467.5	1550.8	1662.8	1518.7
52.5°	1232.3	1232.3	1261.1	1384.3	1467.5	1504.3	1542.7	1582.8	1678.8	1800.4	1602.0
55°	1328.3	1318.7	1336.3	1464.3	1584.4	1619.6	1693.2	1726.8	1819.6	1902.8	1672.4
57.5°	1393.9	1398.7	1419.5	1570.0	1722.0	1765.2	1838.8	1862.8	1944.4	2010.1	1723.6
60°	1480.3	1464.3	1509.1	1686.8	1874.0	1934.8	1995.7	2010.1	2070.9	2078.9	1747.6
62.5°	1563.6	1560.4	1598.8	1803.6	2037.3	2080.5	2142.9	2158.9	2184.5	2133.3	1714.0
65°	1614.8	1635.6	1707.6	1931.6	2222.9	2270.9	2333.3	2301.3	2272.5	2085.3	1549.2
67.5°	1685.2	1694.8	1805.2	2070.9	2437.4	2509.4	2563.8	2437.4	2222.9	1888.4	1304.3
70°	1701.2	1726.8	1870.8	2216.5	2658.2	2731.8	2735.0	2390.9	2042.1	1536.3	945.8
72.5°	1630.8	1648.4	1851.6	2277.3	2784.6	2839.0	2674.2	2162.1	1618.0	968.2	515.3
75°	1371.5	1421.1	1611.6	2090.1	2552.6	2531.8	2266.1	1650.0	971.4	428.9	217.6
77.5°	955.4	957.0	1155.5	1520.3	1910.8	1906.0	1616.4	957.0	416.1	172.8	128.0
80°	424.1	454.5	574.5	819.4	1160.3	1160.3	942.6	475.3	208.0	112.0	88.0
82.5°	249.7	259.3	307.3	382.5	564.9	595.3	451.3	316.9	142.4	70.4	54.4
85°	184.0	200.0	228.9	230.5	267.3	272.1	249.7	275.3	97.6	38.4	44.8
87.5°	137.6	147.2	182.4	152.0	142.4	134.4	153.6	281.7	36.8	19.2	14.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8
2.5°	737.8	737.8	734.6	728.2	728.2	715.4	718.6	721.8	713.8	713.8	715.4
5°	726.6	720.2	712.2	702.6	696.2	678.6	675.4	664.2	662.5	659.3	654.5
7.5°	704.2	694.6	680.2	665.8	644.9	628.9	609.7	593.7	587.3	582.5	580.9
10°	683.4	681.8	657.7	628.9	596.9	566.5	537.7	516.9	504.1	496.1	494.5
12.5°	683.4	670.6	636.9	596.9	550.5	505.7	468.9	440.1	422.5	409.7	404.9
15°	680.2	667.4	622.5	561.7	508.9	448.1	396.9	366.5	340.9	328.1	329.7
17.5°	683.4	664.2	601.7	536.1	462.5	396.9	336.1	299.3	273.7	264.1	262.5
20°	685.0	660.9	585.7	500.9	414.5	340.9	283.3	248.1	228.9	222.5	222.5
22.5°	681.8	651.3	561.7	459.3	372.9	294.5	246.5	216.0	203.2	195.2	198.4
25°	696.2	649.7	539.3	424.1	324.9	256.1	219.2	196.8	188.8	184.0	185.6
27.5°	699.4	649.7	521.7	384.1	283.3	227.3	198.4	184.0	177.6	174.4	172.8
30°	712.2	652.9	500.9	344.1	249.7	204.8	182.4	174.4	169.6	168.0	168.0
32.5°	747.4	662.5	478.5	310.5	220.8	185.6	171.2	164.8	161.6	160.0	161.6
35°	789.0	688.2	454.5	275.3	200.0	172.8	161.6	156.8	155.2	155.2	155.2
37.5°	853.0	726.6	433.7	246.5	182.4	160.0	152.0	150.4	148.8	150.4	150.4
40°	926.6	768.2	414.5	224.1	169.6	152.0	144.0	144.0	142.4	144.0	145.6
42.5°	1011.4	819.4	395.3	201.6	158.4	145.6	139.2	137.6	136.0	139.2	140.8
45°	1128.3	889.8	382.5	188.8	150.4	139.2	132.8	132.8	131.2	131.2	134.4
47.5°	1225.9	957.0	382.5	176.0	145.6	134.4	128.0	128.0	124.8	126.4	126.4
50°	1307.5	1014.6	390.5	172.8	139.2	129.6	124.8	121.6	120.0	120.0	120.0
52.5°	1361.9	1049.8	396.9	169.6	136.0	123.2	120.0	118.4	115.2	113.6	115.2
55°	1416.3	1073.8	398.5	169.6	131.2	116.8	113.6	113.6	110.4	108.8	108.8
57.5°	1437.1	1064.2	376.1	166.4	128.0	112.0	108.8	107.2	105.6	104.0	104.0
60°	1427.5	1029.0	326.5	158.4	124.8	108.8	102.4	102.4	102.4	99.2	100.8
62.5°	1361.9	909.0	262.5	145.6	120.0	102.4	96.0	99.2	99.2	97.6	97.6
65°	1189.1	750.6	212.8	134.4	113.6	97.6	91.2	96.0	97.6	96.0	94.4
67.5°	950.6	577.7	176.0	121.6	105.6	89.6	84.8	89.6	91.2	89.6	89.6
70°	652.9	372.9	142.4	108.8	94.4	81.6	76.8	80.0	80.0	81.6	81.6
72.5°	337.7	201.6	116.8	92.8	81.6	73.6	68.8	68.8	67.2	67.2	67.2
75°	168.0	137.6	97.6	78.4	68.8	62.4	59.2	56.0	56.0	56.0	56.0
77.5°	116.8	105.6	80.0	62.4	56.0	51.2	51.2	46.4	46.4	46.4	46.4
80°	88.0	83.2	60.8	48.0	43.2	40.0	40.0	38.4	38.4	36.8	36.8
82.5°	62.4	67.2	46.4	35.2	32.0	30.4	30.4	28.8	28.8	25.6	25.6
85°	49.6	56.0	35.2	25.6	24.0	20.8	20.8	19.2	19.2	17.6	16.0
87.5°	14.4	30.4	14.4	9.6	9.6	9.6	9.6	8.0	8.0	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)