

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: P675722

Luminaire Tested: **CCW-SA-1C-760-U-SL4**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675722  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-760-U-SL4  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/  
SL4 distribution lens  
Light Source: (16) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

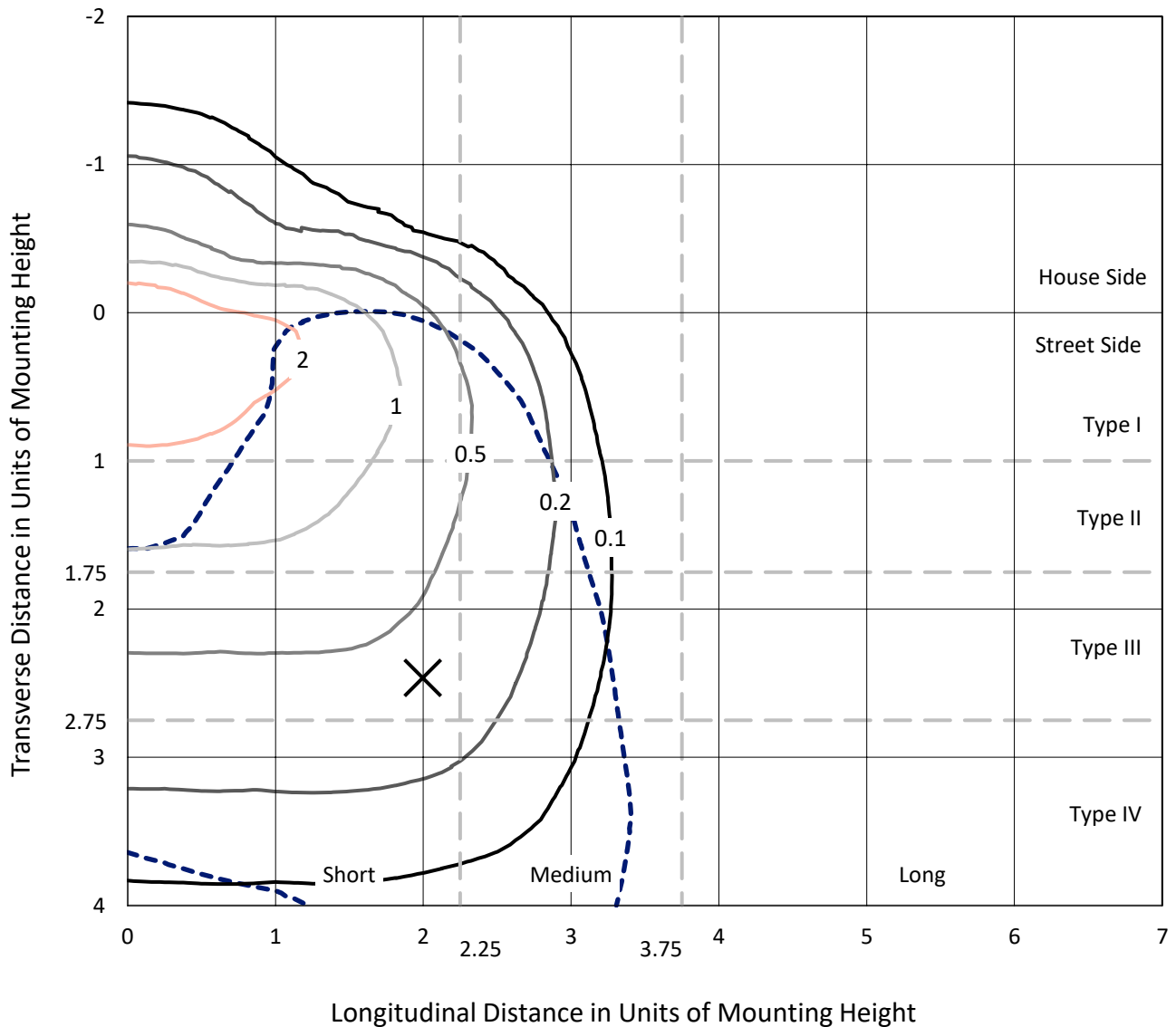
Lumens per Lamp: N/A  
Luminaire Lumens: 4531.9 lumens  
Efficiency: N/A  
Efficacy: 141.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 32  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

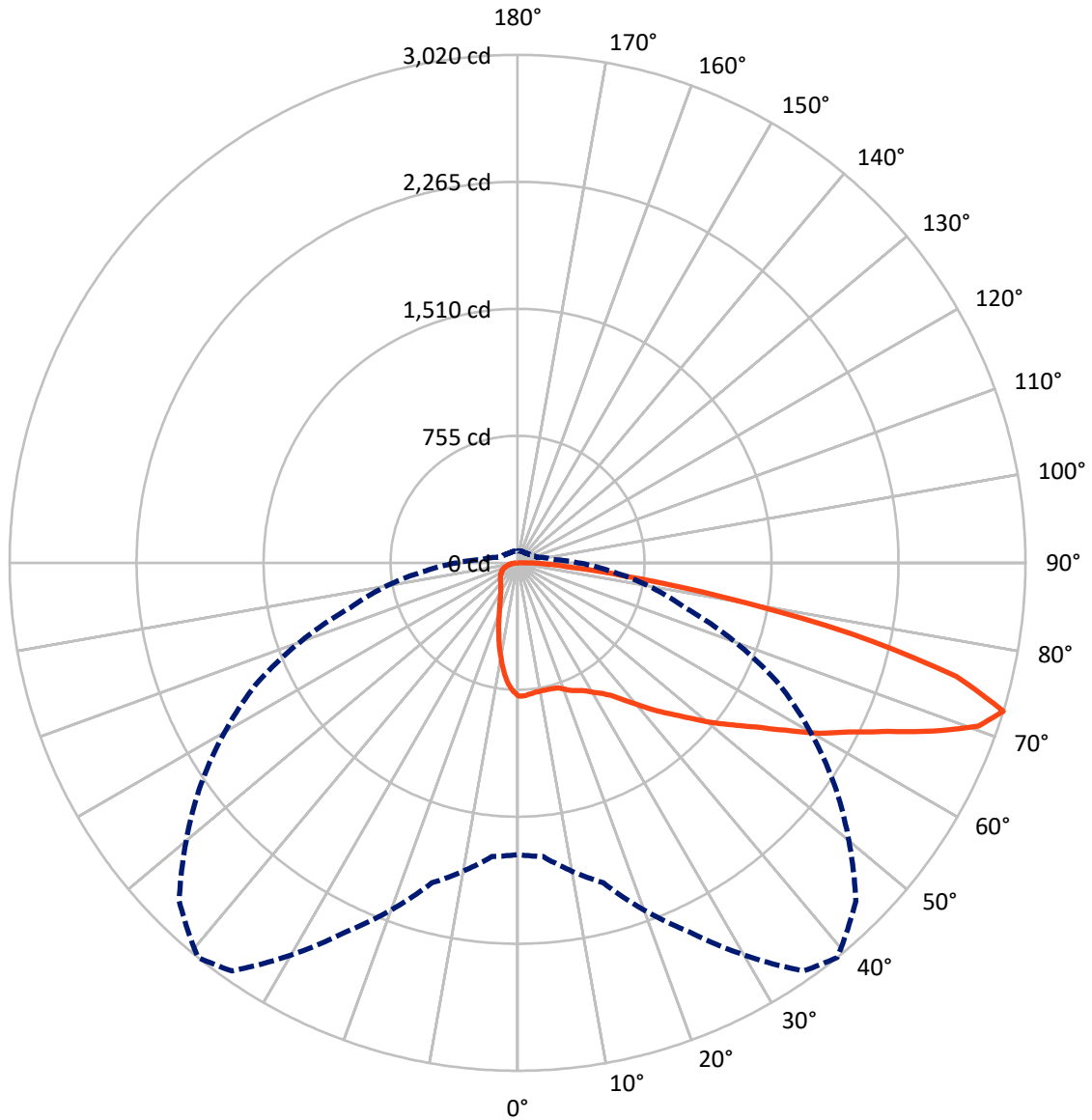
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 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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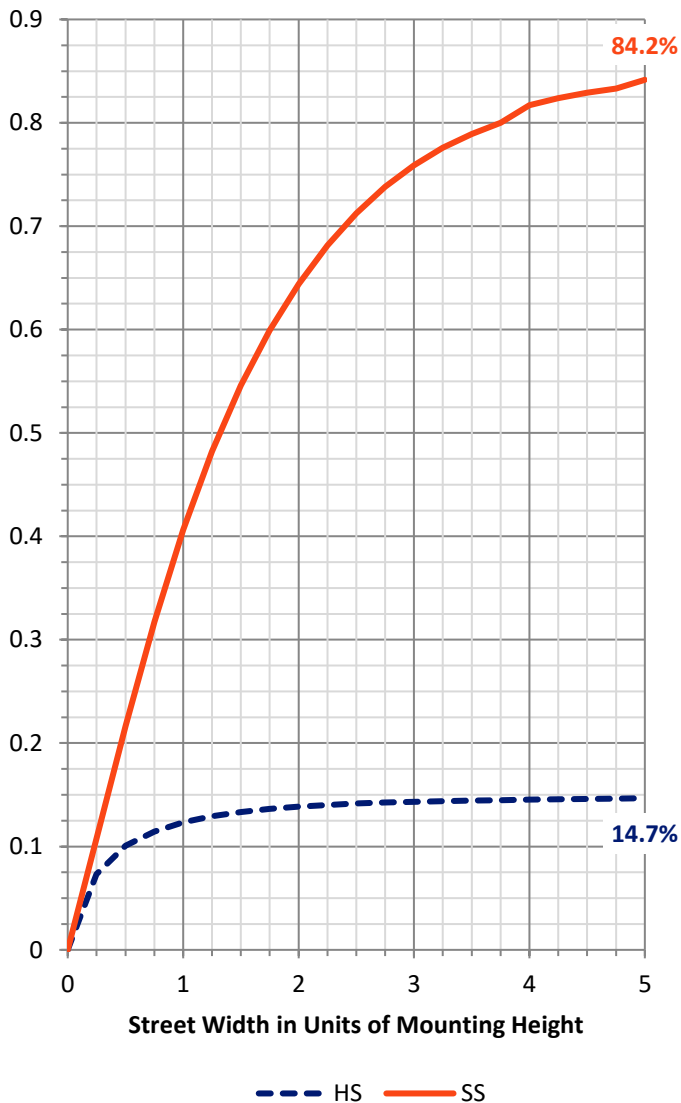
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	673.5	0.0	673.5
	% Fixture	14.9	0.0	14.9
<b>Street Side</b>	Lumens	3858.4	0.0	3858.4
	% Fixture	85.1	0.0	85.1
<b>Total</b>	Lumens	4531.9	0.0	4531.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.1	1.5
10°-20°	178.9	3.9
20°-30°	272.6	6.0
30°-40°	398.7	8.8
40°-50°	610.4	13.5
50°-60°	895.3	19.8
60°-70°	1141.8	25.2
70°-80°	825.0	18.2
80°-90°	139.2	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°	4531.9	100.0
0°-180°	4531.9	100.0

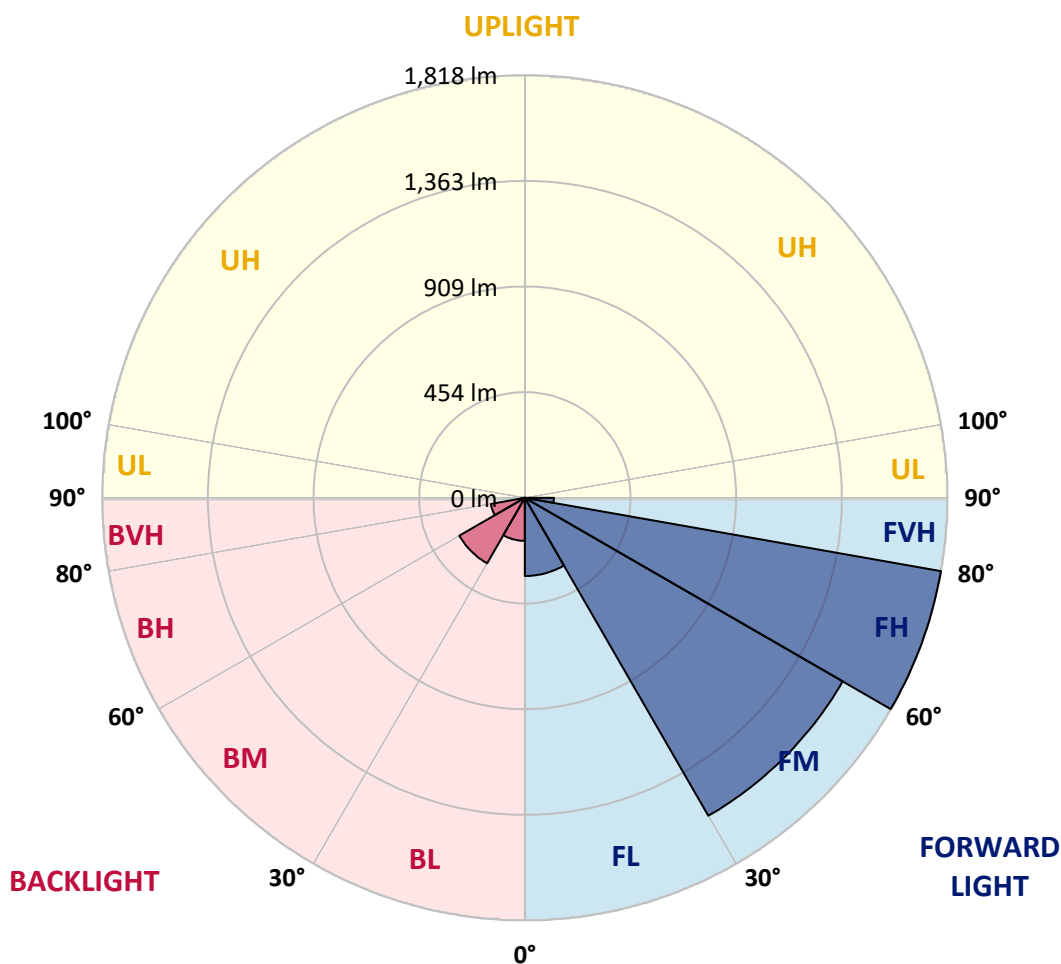


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	336.3	7.4			
FM (30°-60°)	1579.0	34.8			
FH (60°-80°)	1818.0	40.1			G2/5000
FVH (80°-90°)	125.1	2.8			G2/225
BL (0°-30°)	185.2	4.1	B1/500		
BM (30°-60°)	325.4	7.2	B1/1000		
BH (60°-80°)	148.8	3.3	B1/500		G1/500
BVH (80°-90°)	14.1	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°	793.3	793.3	793.3	793.3	793.3	793.3	793.3	793.3	793.3	793.3	793.3
2.5°	805.2	806.9	803.5	800.1	798.4	791.6	798.4	795.0	791.6	791.6	791.6
5°	795.0	796.7	796.7	793.3	795.0	783.1	781.4	783.1	778.0	774.6	772.9
7.5°	779.7	783.1	789.9	788.2	781.4	776.3	778.0	776.3	767.8	762.6	749.0
10°	767.8	771.2	774.6	778.0	776.3	774.6	772.9	766.1	764.3	752.4	738.8
12.5°	755.8	755.8	757.5	771.2	772.9	772.9	762.6	762.6	757.5	755.8	735.4
15°	743.9	749.0	762.6	766.1	772.9	776.3	771.2	771.2	762.6	750.7	735.4
17.5°	747.3	755.8	769.5	778.0	781.4	781.4	788.2	783.1	771.2	764.3	749.0
20°	764.3	766.1	783.1	798.4	801.8	801.8	795.0	789.9	781.4	769.5	749.0
22.5°	774.6	786.5	806.9	815.4	825.6	825.6	817.1	805.2	793.3	781.4	759.2
25°	818.8	820.5	829.0	842.7	847.8	841.0	832.4	818.8	803.5	791.6	771.2
27.5°	849.5	858.0	868.2	875.0	866.5	861.4	854.6	839.3	827.3	817.1	788.2
30°	905.6	895.4	902.2	905.6	890.3	893.7	875.0	861.4	847.8	847.8	815.4
32.5°	939.7	948.2	941.4	939.7	927.8	926.1	914.2	898.8	890.3	900.5	856.3
35°	999.3	994.2	994.2	992.5	978.8	970.3	970.3	943.1	951.6	973.7	919.3
37.5°	1029.9	1028.2	1038.4	1046.9	1033.3	1038.4	1033.3	1021.4	1024.8	1064.0	997.6
40°	1060.6	1072.5	1092.9	1096.3	1104.8	1111.6	1108.2	1106.5	1120.1	1183.1	1103.1
42.5°	1089.5	1099.7	1130.4	1157.6	1178.0	1200.1	1201.9	1201.9	1246.1	1336.3	1230.8
45°	1126.9	1135.5	1178.0	1232.5	1266.5	1281.9	1295.5	1310.8	1370.4	1477.6	1367.0
47.5°	1178.0	1184.8	1235.9	1304.0	1370.4	1378.9	1406.1	1423.2	1513.4	1622.3	1506.6
50°	1251.2	1246.1	1287.0	1385.7	1450.4	1491.2	1530.4	1561.0	1649.6	1768.7	1615.5
52.5°	1310.8	1310.8	1341.4	1472.5	1561.0	1600.2	1641.1	1683.6	1785.8	1915.1	1704.0
55°	1412.9	1402.7	1421.5	1557.6	1685.3	1722.8	1801.1	1836.8	1935.6	2024.1	1778.9
57.5°	1482.7	1487.8	1510.0	1670.0	1831.7	1877.7	1956.0	1981.5	2068.3	2138.1	1833.4
60°	1574.7	1557.6	1605.3	1794.3	1993.4	2058.1	2122.8	2138.1	2202.8	2211.3	1859.0
62.5°	1663.2	1659.8	1700.6	1918.5	2167.1	2213.0	2279.4	2296.5	2323.7	2269.2	1823.2
65°	1717.7	1739.8	1816.4	2054.7	2364.5	2415.6	2482.0	2448.0	2417.3	2218.1	1647.9
67.5°	1792.6	1802.8	1920.2	2202.8	2592.7	2669.3	2727.1	2592.7	2364.5	2008.8	1387.4
70°	1809.6	1836.8	1990.0	2357.7	2827.6	2905.9	2909.3	2543.3	2172.2	1634.2	1006.1
72.5°	1734.7	1753.4	1969.6	2422.4	2962.1	3019.9	2844.6	2299.9	1721.1	1029.9	548.2
75°	1458.9	1511.7	1714.3	2223.3	2715.2	2693.1	2410.5	1755.1	1033.3	456.2	231.5
77.5°	1016.3	1018.0	1229.1	1617.2	2032.6	2027.5	1719.4	1018.0	442.6	183.9	136.2
80°	451.1	483.5	611.1	871.6	1234.2	1234.2	1002.7	505.6	221.3	119.2	93.6
82.5°	265.6	275.8	326.8	406.9	600.9	633.3	480.1	337.1	151.5	74.9	57.9
85°	195.8	212.8	243.4	245.1	284.3	289.4	265.6	292.8	103.8	40.9	47.7
87.5°	146.4	156.6	194.1	161.7	151.5	143.0	163.4	299.6	39.2	20.4	15.3
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°	793.3	793.3	793.3	793.3	793.3	793.3	793.3	793.3	793.3	793.3	793.3
2.5°	784.8	784.8	781.4	774.6	774.6	760.9	764.3	767.8	759.2	759.2	760.9
5°	772.9	766.1	757.5	747.3	740.5	721.8	718.4	706.5	704.8	701.4	696.3
7.5°	749.0	738.8	723.5	708.2	686.0	669.0	648.6	631.6	624.8	619.7	617.9
10°	726.9	725.2	699.7	669.0	635.0	602.6	572.0	549.9	536.2	527.7	526.0
12.5°	726.9	713.3	677.5	635.0	585.6	537.9	498.8	468.1	449.4	435.8	430.7
15°	723.5	709.9	662.2	597.5	541.3	476.7	422.2	389.8	362.6	349.0	350.7
17.5°	726.9	706.5	640.1	570.3	492.0	422.2	357.5	318.3	291.1	280.9	279.2
20°	728.6	703.1	623.1	532.8	440.9	362.6	301.3	263.9	243.4	236.6	236.6
22.5°	725.2	692.9	597.5	488.6	396.6	313.2	262.2	229.8	216.2	207.7	211.1
25°	740.5	691.1	573.7	451.1	345.6	272.4	233.2	209.4	200.9	195.8	197.5
27.5°	743.9	691.1	555.0	408.6	301.3	241.7	211.1	195.8	189.0	185.6	183.9
30°	757.5	694.6	532.8	366.0	265.6	217.9	194.1	185.6	180.4	178.7	178.7
32.5°	795.0	704.8	509.0	330.3	234.9	197.5	182.2	175.3	171.9	170.2	171.9
35°	839.3	732.0	483.5	292.8	212.8	183.9	171.9	166.8	165.1	165.1	165.1
37.5°	907.3	772.9	461.3	262.2	194.1	170.2	161.7	160.0	158.3	160.0	160.0
40°	985.7	817.1	440.9	238.3	180.4	161.7	153.2	153.2	151.5	153.2	154.9
42.5°	1075.9	871.6	420.5	214.5	168.5	154.9	148.1	146.4	144.7	148.1	149.8
45°	1200.1	946.5	406.9	200.9	160.0	148.1	141.3	141.3	139.6	139.6	143.0
47.5°	1304.0	1018.0	406.9	187.3	154.9	143.0	136.2	136.2	132.8	134.5	134.5
50°	1390.8	1079.3	415.4	183.9	148.1	137.9	132.8	129.4	127.7	127.7	127.7
52.5°	1448.7	1116.7	422.2	180.4	144.7	131.1	127.7	126.0	122.6	120.9	122.6
55°	1506.6	1142.3	423.9	180.4	139.6	124.3	120.9	120.9	117.5	115.8	115.8
57.5°	1528.7	1132.1	400.0	177.0	136.2	119.2	115.8	114.1	112.4	110.7	110.7
60°	1518.5	1094.6	347.3	168.5	132.8	115.8	108.9	108.9	108.9	105.5	107.2
62.5°	1448.7	966.9	279.2	154.9	127.7	108.9	102.1	105.5	105.5	103.8	103.8
65°	1264.8	798.4	226.4	143.0	120.9	103.8	97.0	102.1	103.8	102.1	100.4
67.5°	1011.2	614.5	187.3	129.4	112.4	95.3	90.2	95.3	97.0	95.3	95.3
70°	694.6	396.6	151.5	115.8	100.4	86.8	81.7	85.1	85.1	86.8	86.8
72.5°	359.2	214.5	124.3	98.7	86.8	78.3	73.2	73.2	71.5	71.5	71.5
75°	178.7	146.4	103.8	83.4	73.2	66.4	63.0	59.6	59.6	59.6	59.6
77.5°	124.3	112.4	85.1	66.4	59.6	54.5	54.5	49.4	49.4	49.4	49.4
80°	93.6	88.5	64.7	51.1	46.0	42.6	42.6	40.9	40.9	39.2	39.2
82.5°	66.4	71.5	49.4	37.5	34.0	32.3	32.3	30.6	30.6	27.2	27.2
85°	52.8	59.6	37.5	27.2	25.5	22.1	22.1	20.4	20.4	18.7	17.0
87.5°	15.3	32.3	15.3	10.2	10.2	10.2	10.2	8.5	8.5	6.8	6.8
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)