

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: P677144

Luminaire Tested: **CCW-SA-2A-740-U-SL4-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677144  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-740-U-SL4-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
SL4 distribution lens and House Side Shield  
Light Source: (32) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

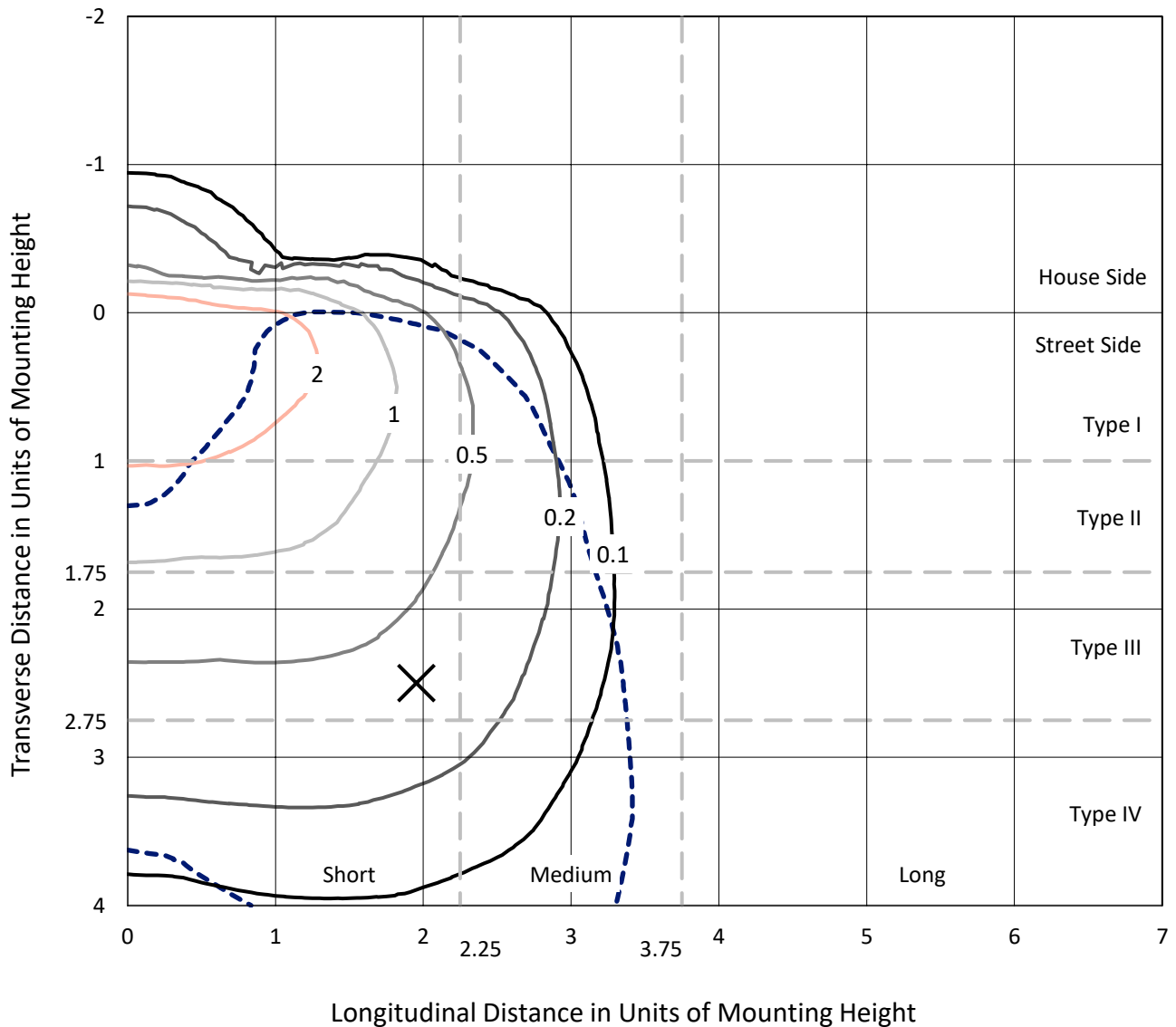
Lumens per Lamp: N/A  
Luminaire Lumens: 4519.7 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 36.2  
Input Voltage (V): 120  
Input Current (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

REPORT NUMBER: P677144  
 CATALOG NUMBER: CCW-SA-2A-740-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

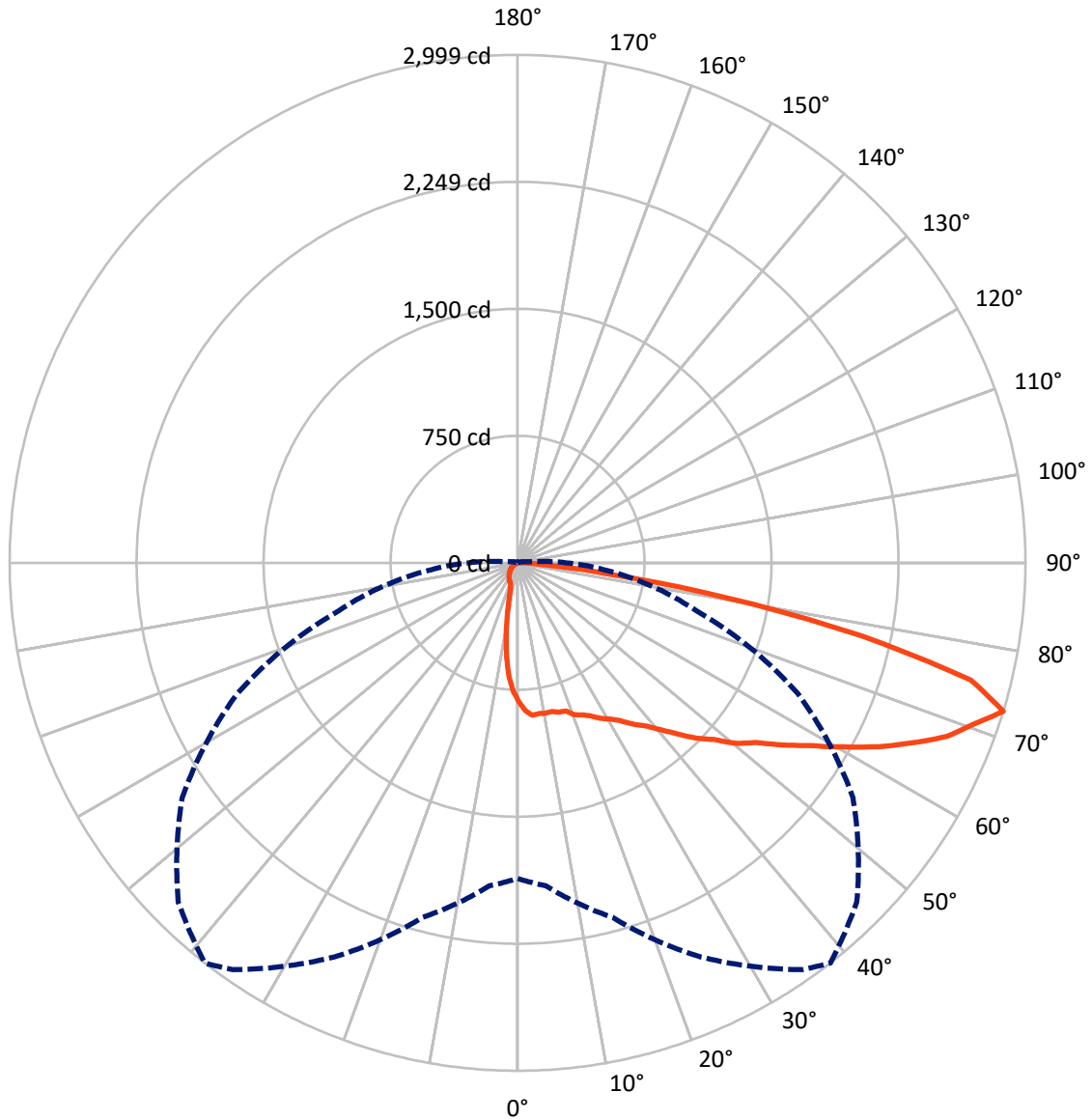
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P677144  
CATALOG NUMBER: CCW-SA-2A-740-U-SL4-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P677144  
 CATALOG NUMBER: CCW-SA-2A-740-U-SL4-HSS

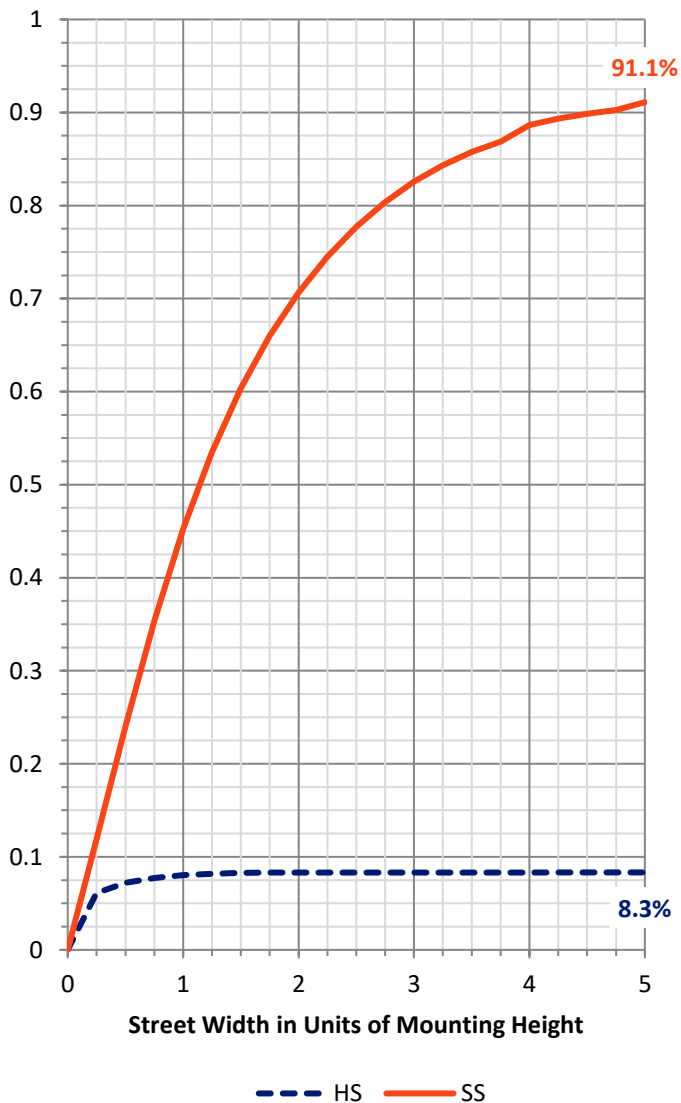
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	378.5	0.0	378.5
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	4141.2	0.0	4141.2
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	4519.7	0.0	4519.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.5	1.6
10°-20°	175.2	3.9
20°-30°	280.8	6.2
30°-40°	424.0	9.4
40°-50°	645.2	14.3
50°-60°	908.4	20.1
60°-70°	1109.6	24.6
70°-80°	805.7	17.8
80°-90°	99.2	2.2
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°	4519.7	100.0
0°-180°	4519.7	100.0

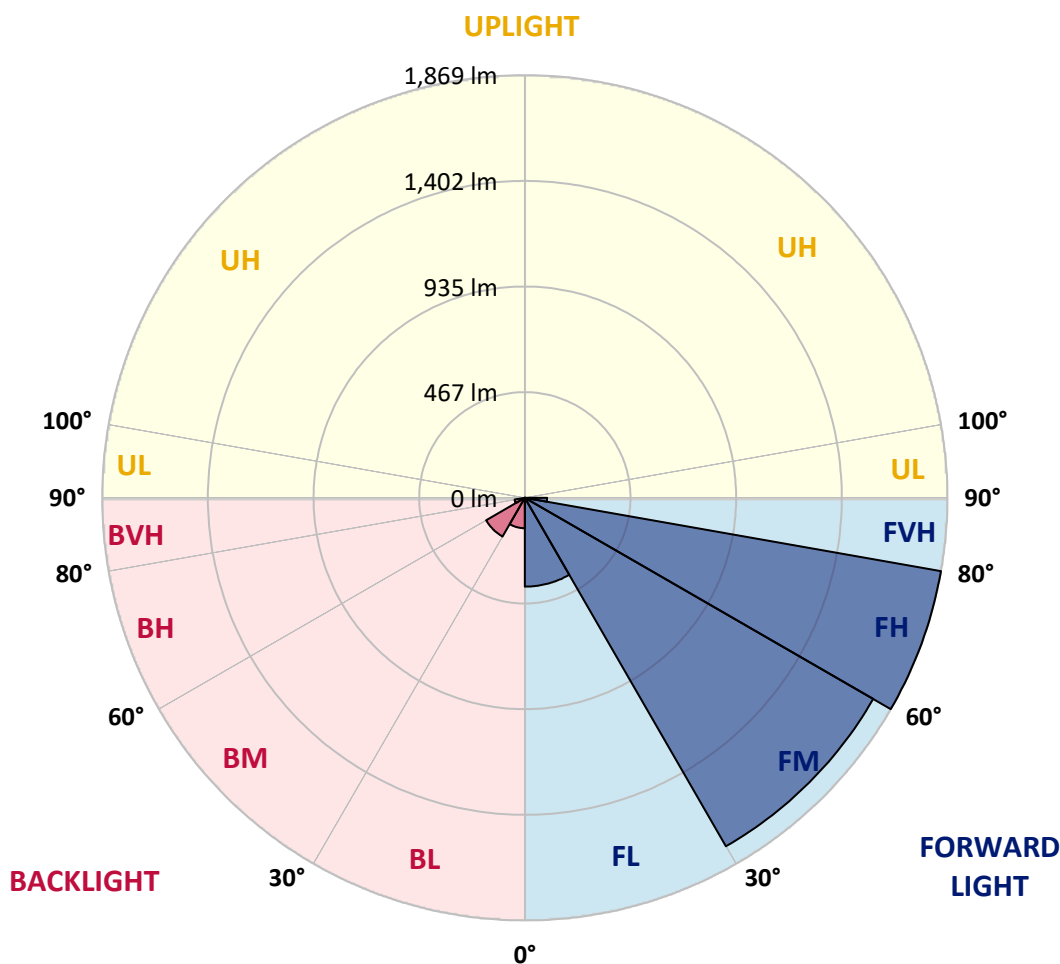


REPORT NUMBER: P677144  
 CATALOG NUMBER: CCW-SA-2A-740-U-SL4-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	393.1	8.7			
FM (30°-60°)	1779.9	39.4			
FH (60°-80°)	1869.5	41.4			G2/5000
FVH (80°-90°)	98.7	2.2			G1/100
BL (0°-30°)	134.4	3.0	B1/500		
BM (30°-60°)	197.7	4.4	B0/220		
BH (60°-80°)	45.9	1.0	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
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





REPORT NUMBER: P677144

CATALOG NUMBER: CCW-SA-2A-740-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	817.3	817.3	817.3	817.3	817.3	817.3	817.3	817.3	817.3	817.3	817.3
2.5°	897.9	897.9	906.4	897.9	894.7	874.6	875.6	865.0	854.4	839.6	825.8
5°	908.5	915.9	921.2	913.8	902.1	904.3	911.7	891.5	862.9	844.9	814.2
7.5°	904.3	920.2	915.9	911.7	904.3	899.0	888.4	879.9	866.1	849.1	813.1
10°	901.1	906.4	907.4	904.3	888.4	903.2	891.5	877.8	860.8	840.7	796.1
12.5°	889.4	889.4	899.0	891.5	893.7	901.1	895.8	892.6	874.6	857.6	818.4
15°	876.7	880.9	895.8	907.4	918.1	914.9	911.7	902.1	886.2	867.2	825.8
17.5°	879.9	882.0	905.3	926.5	921.2	919.1	936.1	915.9	900.0	878.8	832.2
20°	891.5	897.9	924.4	952.0	957.3	957.3	950.9	939.3	917.0	888.4	843.8
22.5°	903.2	905.3	948.8	983.8	989.1	975.3	980.6	946.7	925.5	909.6	855.5
25°	947.7	943.5	990.1	1017.7	1014.5	1000.7	995.4	965.8	957.3	928.7	880.9
27.5°	1008.2	990.1	1035.7	1052.7	1035.7	1040.0	1025.1	993.3	975.3	958.3	892.6
30°	1045.3	1055.9	1080.2	1097.2	1068.6	1069.6	1062.2	1027.2	999.7	1003.9	931.8
32.5°	1102.5	1109.9	1128.0	1135.4	1113.1	1111.0	1103.6	1076.0	1055.9	1051.6	984.8
35°	1164.0	1177.8	1178.8	1181.0	1160.8	1169.3	1158.7	1119.5	1130.1	1137.5	1048.4
37.5°	1224.4	1211.7	1232.9	1242.4	1220.2	1220.2	1223.4	1196.9	1215.9	1238.2	1138.6
40°	1247.7	1253.0	1290.1	1282.7	1309.2	1293.3	1305.0	1298.6	1314.5	1365.4	1265.8
42.5°	1272.1	1278.5	1328.3	1342.1	1373.9	1379.2	1396.2	1397.2	1443.9	1527.6	1387.7
45°	1318.8	1308.2	1376.0	1409.9	1461.9	1476.7	1496.9	1513.8	1587.0	1685.6	1526.5
47.5°	1361.2	1346.3	1423.7	1491.6	1555.2	1558.4	1613.5	1631.5	1718.4	1830.8	1664.4
50°	1420.5	1425.8	1458.7	1575.3	1640.0	1677.1	1715.2	1774.6	1871.1	1990.9	1764.0
52.5°	1482.0	1476.7	1531.9	1646.3	1748.1	1761.9	1847.8	1914.5	2019.5	2109.6	1808.5
55°	1557.3	1563.7	1584.9	1735.4	1864.7	1897.6	1994.1	2064.0	2178.5	2160.5	1823.4
57.5°	1632.6	1626.2	1673.9	1835.0	2011.0	2035.4	2163.7	2205.0	2282.4	2194.4	1786.3
60°	1706.8	1718.4	1738.6	1947.4	2171.1	2207.1	2308.9	2330.1	2347.1	2210.3	1757.7
62.5°	1791.6	1764.0	1826.6	2066.1	2315.3	2390.5	2471.1	2387.4	2372.5	2181.7	1691.9
65°	1834.0	1842.5	1924.1	2201.8	2507.1	2562.3	2572.9	2464.7	2388.4	2118.1	1630.4
67.5°	1899.7	1911.4	2015.3	2340.7	2704.3	2735.1	2696.9	2534.7	2374.6	2035.4	1408.9
70°	1908.2	1936.8	2137.2	2485.9	2828.4	2854.9	2825.2	2581.4	2263.3	1709.9	1043.1
72.5°	1863.7	1914.5	2166.9	2568.6	2932.2	2999.0	2832.6	2417.0	1824.4	1090.8	534.3
75°	1407.8	1450.2	1983.5	2445.7	2747.8	2763.7	2487.0	1844.6	1038.9	372.1	136.8
77.5°	729.4	802.5	1324.1	1869.0	2093.7	2076.7	1731.2	1086.6	357.3	97.5	55.1
80°	418.7	436.8	578.8	1049.5	1316.6	1252.0	957.3	468.6	156.9	48.8	36.0
82.5°	206.7	232.2	311.7	469.6	658.3	541.7	359.4	280.9	88.0	26.5	31.8
85°	44.5	46.6	159.0	224.7	267.1	176.0	123.0	236.4	31.8	15.9	30.7
87.5°	31.8	30.7	44.5	100.7	74.2	45.6	73.1	124.0	7.4	7.4	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



REPORT NUMBER: P677144  
 CATALOG NUMBER: CCW-SA-2A-740-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	817.3	817.3	817.3	817.3	817.3	817.3	817.3	817.3	817.3	817.3	817.3
2.5°	817.3	807.8	797.2	777.1	771.8	768.6	750.6	749.5	746.3	738.9	735.7
5°	795.1	779.2	759.0	737.8	720.9	690.1	653.0	633.9	610.6	611.7	604.3
7.5°	791.9	762.2	733.6	689.1	635.0	577.8	520.5	483.4	456.9	441.0	444.2
10°	777.1	754.8	708.1	625.5	538.5	451.6	378.5	323.3	291.5	267.1	274.6
12.5°	783.4	740.0	674.2	564.0	439.9	332.9	241.7	188.7	165.4	156.9	159.0
15°	779.2	740.0	654.1	497.2	345.6	225.8	156.9	139.9	135.7	135.7	133.6
17.5°	791.9	748.4	620.2	431.5	248.1	150.5	134.6	131.5	128.3	128.3	128.3
20°	809.9	752.7	596.8	358.3	174.9	132.5	126.2	124.0	123.0	123.0	121.9
22.5°	811.0	748.4	553.4	277.7	134.6	125.1	119.8	118.7	118.7	116.6	116.6
25°	817.3	752.7	506.7	208.8	125.1	117.7	113.4	112.4	113.4	112.4	111.3
27.5°	833.2	760.1	460.1	152.7	117.7	111.3	108.1	107.1	107.1	107.1	105.0
30°	853.4	760.1	408.1	126.2	111.3	105.0	101.8	100.7	99.6	99.6	99.6
32.5°	895.8	784.5	344.5	112.4	102.8	97.5	94.3	94.3	93.3	93.3	92.2
35°	948.8	801.4	279.9	103.9	95.4	90.1	86.9	86.9	85.9	85.9	84.8
37.5°	1014.5	843.8	214.1	97.5	88.0	82.7	79.5	79.5	79.5	78.4	78.4
40°	1107.8	887.3	159.0	89.0	80.6	75.3	73.1	72.1	71.0	71.0	68.9
42.5°	1207.5	954.1	118.7	82.7	74.2	70.0	66.8	63.6	63.6	60.4	60.4
45°	1315.6	1012.4	96.5	75.3	67.8	62.5	59.4	57.2	54.1	51.9	51.9
47.5°	1421.6	1048.4	84.8	66.8	61.5	57.2	54.1	49.8	45.6	44.5	43.5
50°	1507.5	1059.0	75.3	60.4	56.2	51.9	47.7	42.4	38.2	36.0	35.0
52.5°	1507.5	1000.7	67.8	54.1	50.9	46.6	41.3	35.0	29.7	27.6	26.5
55°	1507.5	908.5	60.4	49.8	45.6	42.4	35.0	28.6	23.3	20.1	19.1
57.5°	1485.2	797.2	54.1	44.5	40.3	36.0	29.7	22.3	17.0	13.8	13.8
60°	1423.7	680.6	46.6	39.2	35.0	29.7	23.3	15.9	10.6	7.4	7.4
62.5°	1345.3	541.7	40.3	32.9	28.6	24.4	18.0	10.6	4.2	2.1	2.1
65°	1208.5	399.7	35.0	27.6	22.3	18.0	11.7	4.2	0.0	0.0	0.0
67.5°	997.6	267.1	27.6	22.3	19.1	12.7	7.4	1.1	0.0	0.0	0.0
70°	701.8	151.6	21.2	15.9	13.8	8.5	2.1	0.0	0.0	0.0	0.0
72.5°	288.3	66.8	14.8	11.7	9.5	4.2	0.0	0.0	0.0	0.0	0.0
75°	78.4	29.7	9.5	6.4	5.3	1.1	0.0	0.0	0.0	0.0	0.0
77.5°	45.6	20.1	4.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	36.0	9.5	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.0	5.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	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

(END OF REPORT)