

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: P675674

Luminaire Tested: **CCW-SA-2D-727-U-SL4**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675674  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-727-U-SL4  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/  
SL4 distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

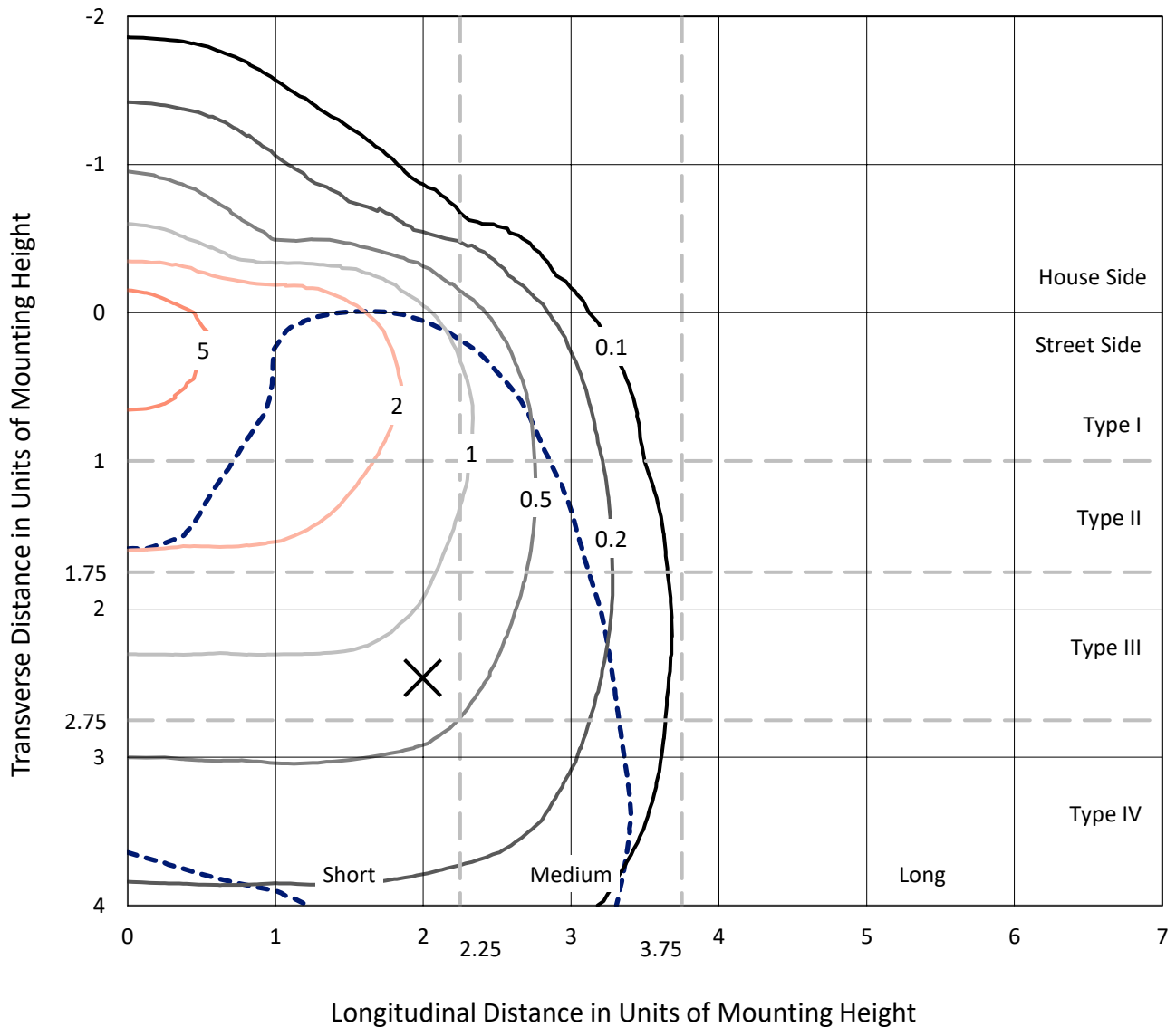
Lumens per Lamp: N/A  
Luminaire Lumens: 9139.8 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 80.8  
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

REPORT NUMBER: P675674  
 CATALOG NUMBER: CCW-SA-2D-727-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

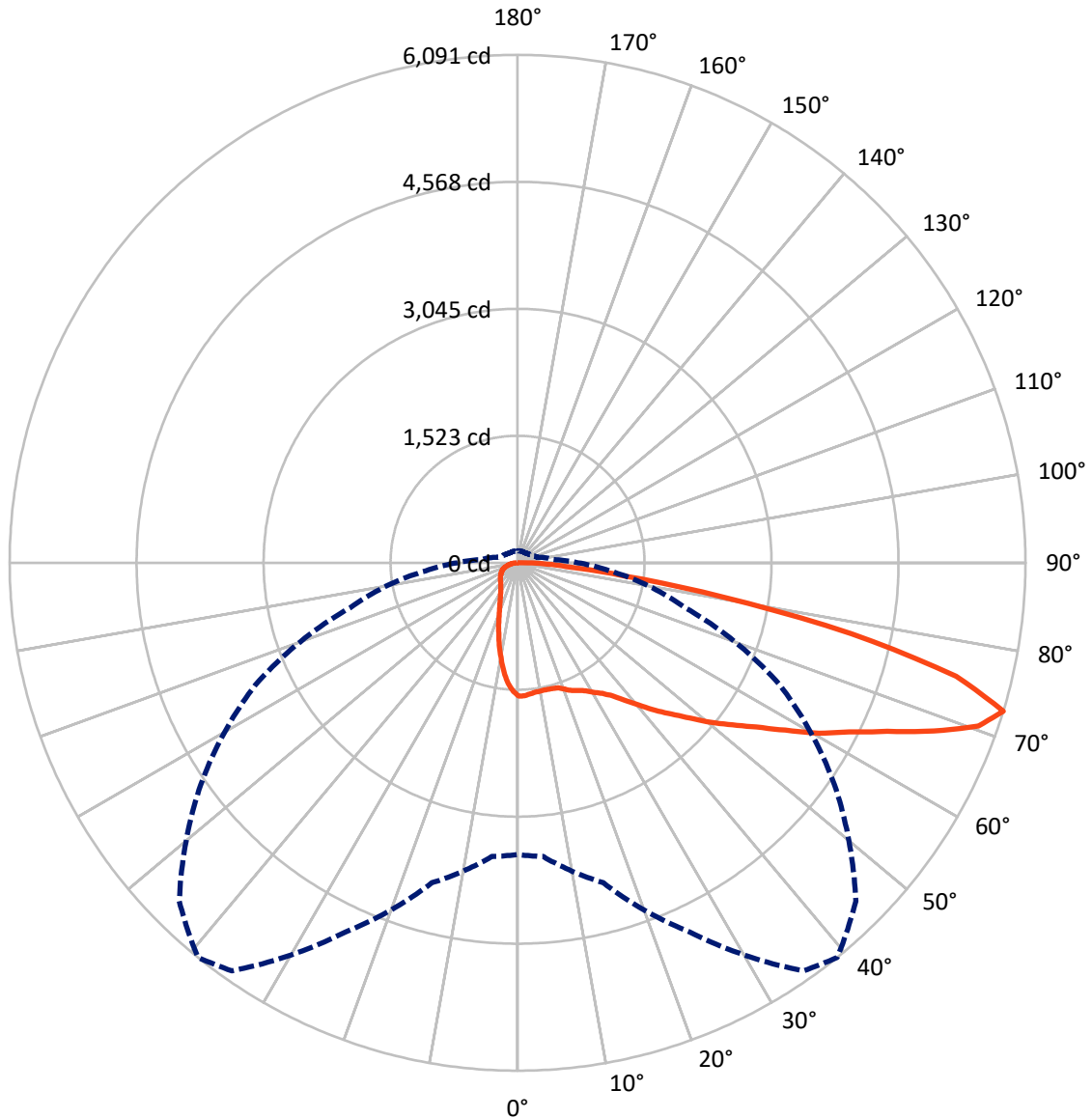
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P675674  
CATALOG NUMBER: CCW-SA-2D-727-U-SL4

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P675674  
 CATALOG NUMBER: CCW-SA-2D-727-U-SL4

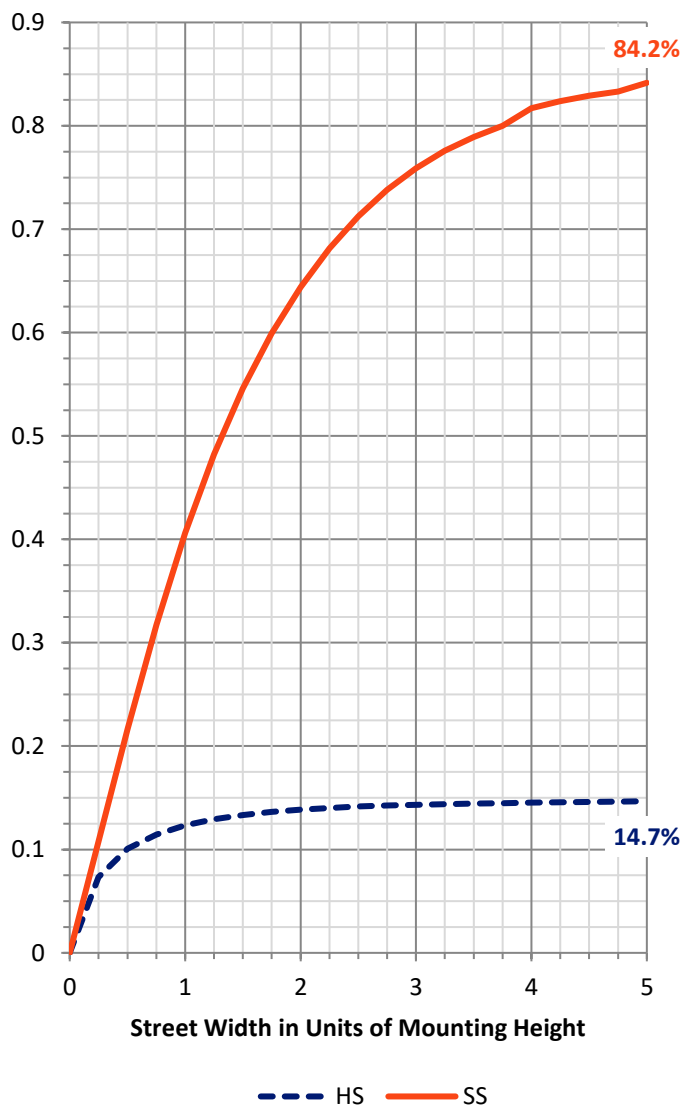
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1358.4	0.0	1358.4
	% Fixture	14.9	0.0	14.9
<b>Street Side</b>	Lumens	7781.4	0.0	7781.4
	% Fixture	85.1	0.0	85.1
<b>Total</b>	Lumens	9139.8	0.0	9139.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.3	1.5
10°-20°	360.8	3.9
20°-30°	549.7	6.0
30°-40°	804.1	8.8
40°-50°	1231.1	13.5
50°-60°	1805.6	19.8
60°-70°	2302.7	25.2
70°-80°	1663.8	18.2
80°-90°	280.7	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°	9139.8	100.0
0°-180°	9139.8	100.0

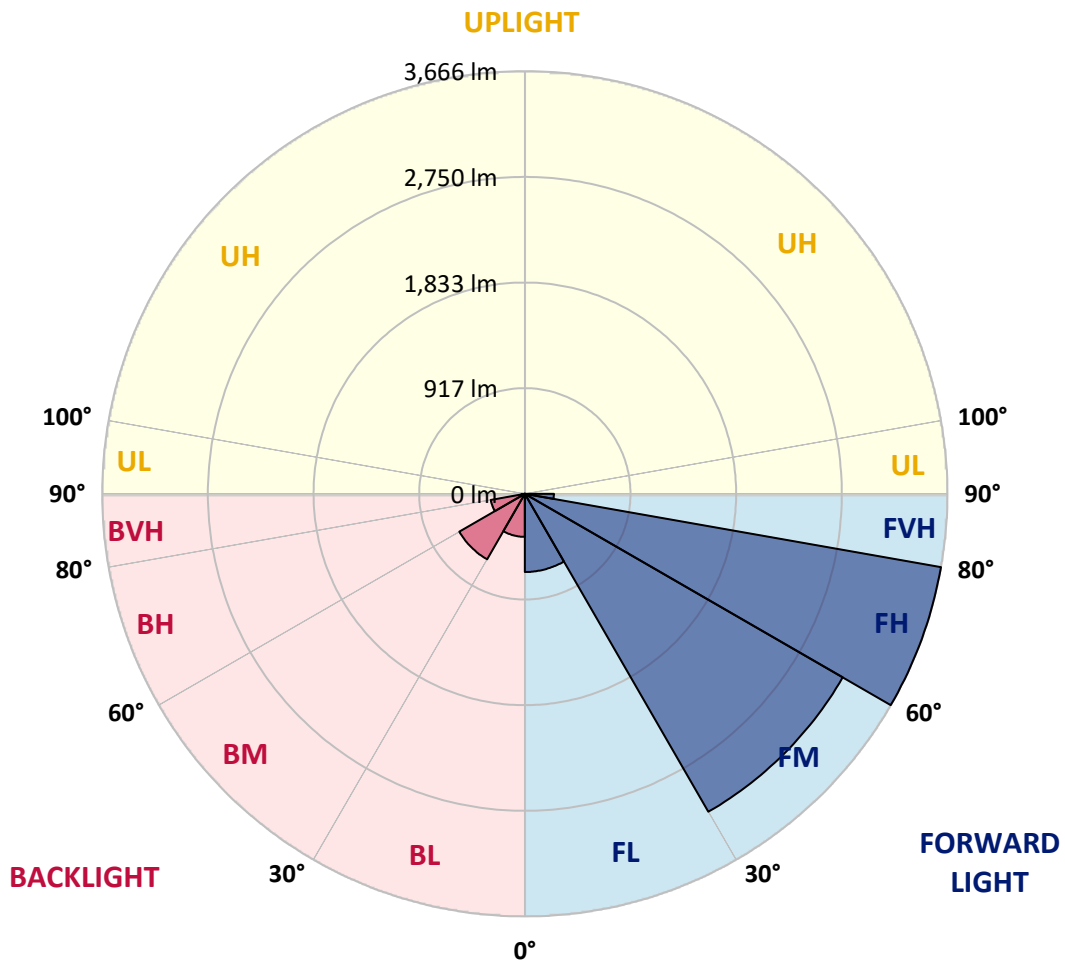


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 CATALOG NUMBER: CCW-SA-2D-727-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	678.3	7.4			
FM (30°-60°)	3184.5	34.8			
FH (60°-80°)	3666.4	40.1			G2/5000
FVH (80°-90°)	252.2	2.8			G3/500
BL (0°-30°)	373.6	4.1	B1/500		
BM (30°-60°)	656.2	7.2	B1/1000		
BH (60°-80°)	300.1	3.3	B1/500		G1/500
BVH (80°-90°)	28.4	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-G3**  
 Type IV Short





REPORT NUMBER: P675674

CATALOG NUMBER: CCW-SA-2D-727-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9
2.5°	1623.9	1627.3	1620.5	1613.6	1610.2	1596.4	1610.2	1603.3	1596.4	1596.4	1596.4
5°	1603.3	1606.7	1606.7	1599.9	1603.3	1579.3	1575.8	1579.3	1569.0	1562.1	1558.7
7.5°	1572.4	1579.3	1593.0	1589.6	1575.8	1565.5	1569.0	1565.5	1548.4	1538.1	1510.6
10°	1548.4	1555.2	1562.1	1569.0	1565.5	1562.1	1558.7	1544.9	1541.5	1517.5	1490.0
12.5°	1524.3	1524.3	1527.8	1555.2	1558.7	1558.7	1538.1	1538.1	1527.8	1524.3	1483.1
15°	1500.3	1510.6	1538.1	1544.9	1558.7	1565.5	1555.2	1555.2	1538.1	1514.0	1483.1
17.5°	1507.2	1524.3	1551.8	1569.0	1575.8	1575.8	1589.6	1579.3	1555.2	1541.5	1510.6
20°	1541.5	1544.9	1579.3	1610.2	1617.0	1617.0	1603.3	1593.0	1575.8	1551.8	1510.6
22.5°	1562.1	1586.1	1627.3	1644.5	1665.1	1665.1	1647.9	1623.9	1599.9	1575.8	1531.2
25°	1651.4	1654.8	1672.0	1699.4	1709.7	1696.0	1678.8	1651.4	1620.5	1596.4	1555.2
27.5°	1713.2	1730.3	1750.9	1764.7	1747.5	1737.2	1723.5	1692.6	1668.5	1647.9	1589.6
30°	1826.5	1805.9	1819.6	1826.5	1795.6	1802.4	1764.7	1737.2	1709.7	1709.7	1644.5
32.5°	1895.1	1912.3	1898.6	1895.1	1871.1	1867.7	1843.6	1812.7	1795.6	1816.2	1726.9
35°	2015.3	2005.0	2005.0	2001.6	1974.1	1956.9	1956.9	1902.0	1919.2	1963.8	1853.9
37.5°	2077.1	2073.6	2094.2	2111.4	2083.9	2094.2	2083.9	2059.9	2066.8	2145.7	2011.9
40°	2138.9	2162.9	2204.1	2211.0	2228.1	2241.9	2235.0	2231.6	2259.0	2386.1	2224.7
42.5°	2197.2	2217.8	2279.6	2334.6	2375.8	2420.4	2423.8	2423.8	2513.1	2695.1	2482.2
45°	2272.8	2289.9	2375.8	2485.6	2554.3	2585.2	2612.7	2643.6	2763.7	2980.0	2756.9
47.5°	2375.8	2389.5	2492.5	2629.8	2763.7	2780.9	2835.8	2870.1	3052.1	3271.8	3038.4
50°	2523.4	2513.1	2595.5	2794.6	2925.1	3007.5	3086.4	3148.2	3326.8	3567.1	3258.1
52.5°	2643.6	2643.6	2705.4	2969.7	3148.2	3227.2	3309.6	3395.4	3601.4	3862.3	3436.6
55°	2849.6	2829.0	2866.7	3141.4	3398.9	3474.4	3632.3	3704.4	3903.5	4082.1	3587.7
57.5°	2990.3	3000.6	3045.2	3368.0	3694.1	3786.8	3944.7	3996.2	4171.3	4312.1	3697.5
60°	3175.7	3141.4	3237.5	3618.6	4020.3	4150.7	4281.2	4312.1	4442.6	4459.7	3749.0
62.5°	3354.2	3347.4	3429.8	3869.2	4370.5	4463.2	4597.0	4631.4	4686.3	4576.4	3676.9
65°	3464.1	3508.7	3663.2	4143.9	4768.7	4871.7	5005.6	4936.9	4875.1	4473.5	3323.3
67.5°	3615.2	3635.8	3872.6	4442.6	5228.8	5383.2	5500.0	5228.8	4768.7	4051.2	2798.1
70°	3649.5	3704.4	4013.4	4755.0	5702.5	5860.5	5867.3	5129.2	4380.8	3295.9	2029.0
72.5°	3498.4	3536.2	3972.2	4885.4	5973.8	6090.5	5736.9	4638.2	3471.0	2077.1	1105.5
75°	2942.2	3048.7	3457.2	4483.7	5475.9	5431.3	4861.4	3539.6	2083.9	920.1	466.9
77.5°	2049.6	2053.0	2478.8	3261.5	4099.2	4088.9	3467.5	2053.0	892.6	370.8	274.7
80°	909.8	975.0	1232.5	1757.8	2489.1	2489.1	2022.2	1019.7	446.3	240.3	188.8
82.5°	535.6	556.2	659.2	820.5	1211.9	1277.1	968.2	679.8	305.6	151.1	116.7
85°	394.8	429.1	490.9	494.4	573.3	583.6	535.6	590.5	209.4	82.4	96.1
87.5°	295.3	315.9	391.4	326.2	305.6	288.4	329.6	604.2	79.0	41.2	30.9
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: P675674  
 CATALOG NUMBER: CCW-SA-2D-727-U-SL4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9
2.5°	1582.7	1582.7	1575.8	1562.1	1562.1	1534.6	1541.5	1548.4	1531.2	1531.2	1534.6
5°	1558.7	1544.9	1527.8	1507.2	1493.4	1455.7	1448.8	1424.8	1421.3	1414.5	1404.2
7.5°	1510.6	1490.0	1459.1	1428.2	1383.6	1349.2	1308.0	1273.7	1260.0	1249.7	1246.2
10°	1466.0	1462.5	1411.0	1349.2	1280.6	1215.4	1153.6	1108.9	1081.5	1064.3	1060.9
12.5°	1466.0	1438.5	1366.4	1280.6	1181.0	1084.9	1005.9	944.1	906.4	878.9	868.6
15°	1459.1	1431.6	1335.5	1205.1	1091.8	961.3	851.4	786.2	731.3	703.8	707.2
17.5°	1466.0	1424.8	1290.9	1150.1	992.2	851.4	721.0	642.0	587.1	566.5	563.0
20°	1469.4	1417.9	1256.5	1074.6	889.2	731.3	607.7	532.1	490.9	477.2	477.2
22.5°	1462.5	1397.3	1205.1	985.3	799.9	631.7	528.7	463.5	436.0	418.8	425.7
25°	1493.4	1393.9	1157.0	909.8	696.9	549.3	470.3	422.3	405.1	394.8	398.3
27.5°	1500.3	1393.9	1119.2	824.0	607.7	487.5	425.7	394.8	381.1	374.2	370.8
30°	1527.8	1400.7	1074.6	738.1	535.6	439.4	391.4	374.2	363.9	360.5	360.5
32.5°	1603.3	1421.3	1026.5	666.0	473.8	398.3	367.4	353.6	346.8	343.3	346.8
35°	1692.6	1476.3	975.0	590.5	429.1	370.8	346.8	336.5	333.0	333.0	333.0
37.5°	1829.9	1558.7	930.4	528.7	391.4	343.3	326.2	322.7	319.3	322.7	322.7
40°	1987.8	1647.9	889.2	480.6	363.9	326.2	309.0	309.0	305.6	309.0	312.4
42.5°	2169.8	1757.8	848.0	432.6	339.9	312.4	298.7	295.3	291.8	298.7	302.1
45°	2420.4	1908.9	820.5	405.1	322.7	298.7	285.0	285.0	281.5	281.5	288.4
47.5°	2629.8	2053.0	820.5	377.7	312.4	288.4	274.7	274.7	267.8	271.2	271.2
50°	2804.9	2176.6	837.7	370.8	298.7	278.1	267.8	260.9	257.5	257.5	257.5
52.5°	2921.6	2252.2	851.4	363.9	291.8	264.4	257.5	254.1	247.2	243.8	247.2
55°	3038.4	2303.7	854.9	363.9	281.5	250.6	243.8	243.8	236.9	233.5	233.5
57.5°	3083.0	2283.1	806.8	357.1	274.7	240.3	233.5	230.0	226.6	223.2	223.2
60°	3062.4	2207.5	700.4	339.9	267.8	233.5	219.7	219.7	219.7	212.9	216.3
62.5°	2921.6	1950.1	563.0	312.4	257.5	219.7	206.0	212.9	212.9	209.4	209.4
65°	2550.9	1610.2	456.6	288.4	243.8	209.4	195.7	206.0	209.4	206.0	202.6
67.5°	2039.3	1239.4	377.7	260.9	226.6	192.3	182.0	192.3	195.7	192.3	192.3
70°	1400.7	799.9	305.6	233.5	202.6	175.1	164.8	171.7	171.7	175.1	175.1
72.5°	724.4	432.6	250.6	199.1	175.1	157.9	147.6	147.6	144.2	144.2	144.2
75°	360.5	295.3	209.4	168.2	147.6	133.9	127.0	120.2	120.2	120.2	120.2
77.5°	250.6	226.6	171.7	133.9	120.2	109.9	109.9	99.6	99.6	99.6	99.6
80°	188.8	178.5	130.5	103.0	92.7	85.8	85.8	82.4	82.4	79.0	79.0
82.5°	133.9	144.2	99.6	75.5	68.7	65.2	65.2	61.8	61.8	54.9	54.9
85°	106.4	120.2	75.5	54.9	51.5	44.6	44.6	41.2	41.2	37.8	34.3
87.5°	30.9	65.2	30.9	20.6	20.6	20.6	20.6	17.2	17.2	13.7	13.7
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)