

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: P674463

Luminaire Tested: **CCP-SA-1F-830-U-AFL-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674463  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1F-830-U-AFL-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1200mA w/ AFL distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

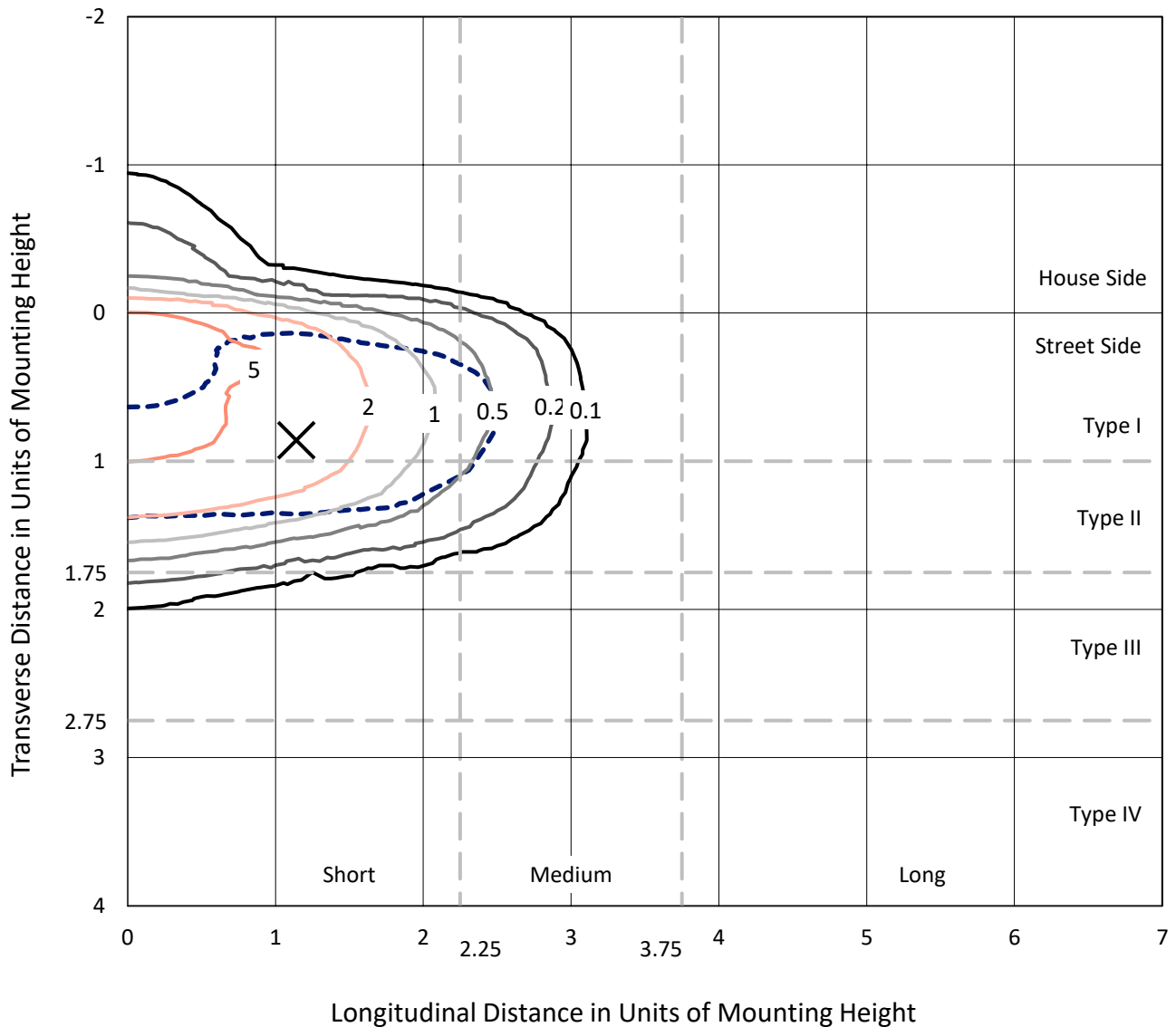
Lumens per Lamp: N/A  
Luminaire Lumens: 4940.4 lumens  
Efficiency: N/A  
Efficacy: 73.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 67  
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: P674463  
 CATALOG NUMBER: CCP-SA-1F-830-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

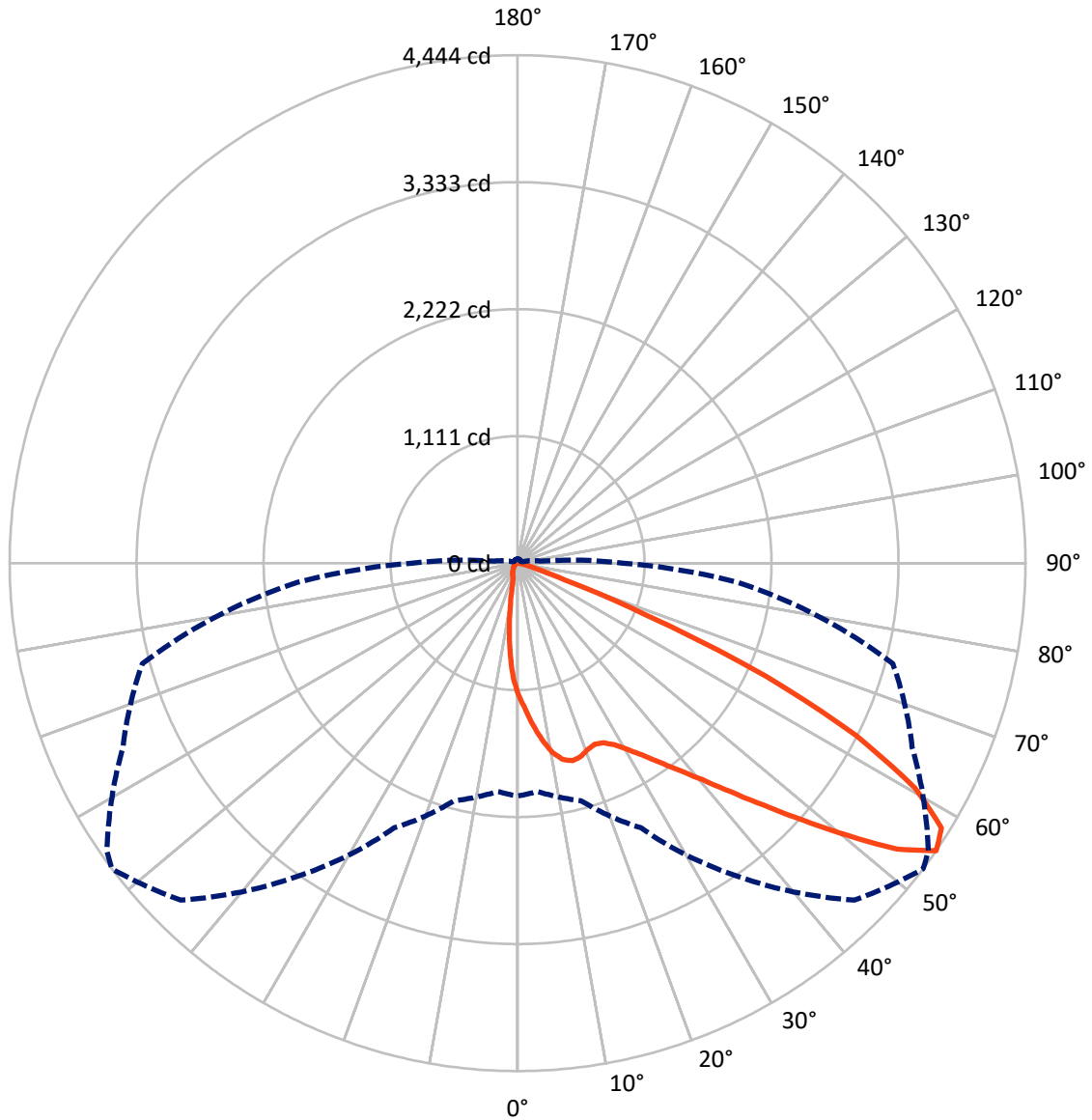
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P674463  
CATALOG NUMBER: CCP-SA-1F-830-U-AFL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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 CATALOG NUMBER: CCP-SA-1F-830-U-AFL-HSS

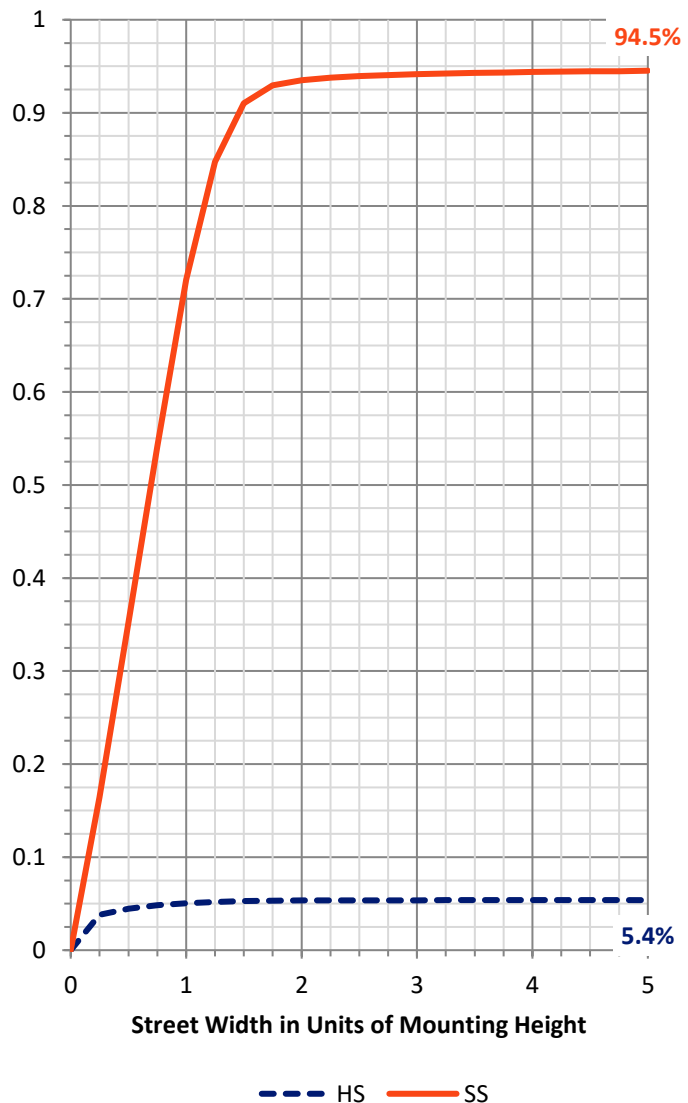
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	267.1	0.0	267.1
	% Fixture	5.4	0.0	5.4
<b>Street Side</b>	Lumens	4673.4	0.0	4673.4
	% Fixture	94.6	0.0	94.6
<b>Total</b>	Lumens	4940.4	0.0	4940.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.4	2.1
10°-20°	270.1	5.5
20°-30°	452.1	9.2
30°-40°	739.6	15.0
40°-50°	1188.9	24.1
50°-60°	1342.3	27.2
60°-70°	716.0	14.5
70°-80°	117.6	2.4
80°-90°	10.5	0.2
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°	4940.4	100.0
0°-180°	4940.4	100.0



REPORT NUMBER: P674463

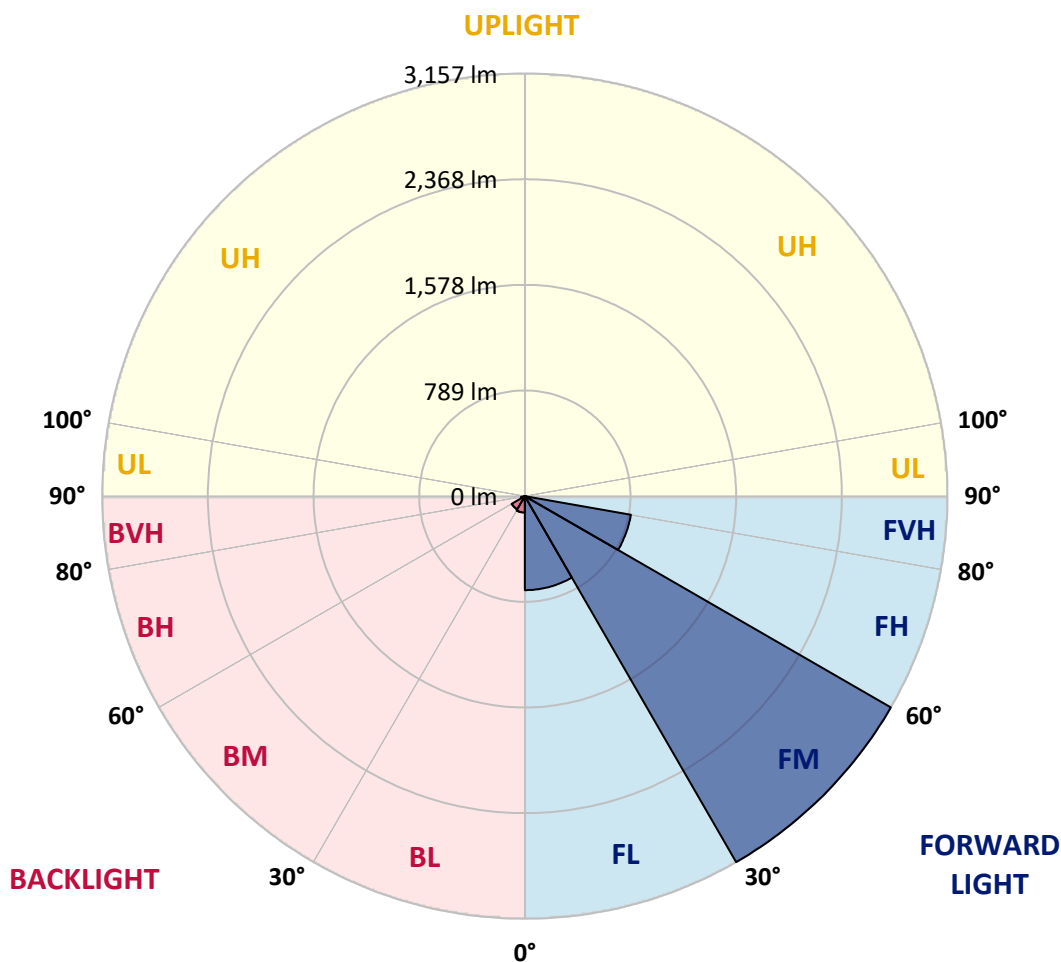
CATALOG NUMBER: CCP-SA-1F-830-U-AFL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	702.3	14.2			
FM (30°-60°)	3157.0	63.9			
FH (60°-80°)	804.4	16.3			G1/1800
FVH (80°-90°)	9.7	0.2			G0/10
BL (0°-30°)	123.2	2.5	B1/500		
BM (30°-60°)	113.8	2.3	B0/220		
BH (60°-80°)	29.2	0.6	B0/110		G0/110
BVH (80°-90°)	0.9	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-G1**

Type II Short





REPORT NUMBER: P674463

CATALOG NUMBER: CCP-SA-1F-830-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2
2.5°	1386.5	1378.2	1383.0	1370.4	1347.5	1318.9	1276.1	1278.2	1244.5	1215.0	1174.4
5°	1615.4	1606.8	1604.2	1572.2	1540.1	1488.6	1425.0	1414.6	1352.7	1277.8	1192.5
7.5°	1736.2	1728.9	1734.5	1722.8	1691.2	1644.4	1563.9	1556.1	1460.5	1347.1	1221.5
10°	1680.8	1678.2	1702.0	1729.7	1755.3	1749.6	1685.1	1673.0	1565.7	1423.3	1251.4
12.5°	1531.9	1540.1	1570.4	1621.5	1700.3	1774.3	1763.9	1766.1	1673.0	1505.9	1284.3
15°	1444.5	1454.4	1471.7	1498.1	1595.1	1726.7	1793.8	1815.4	1776.0	1598.1	1323.3
17.5°	1437.1	1445.3	1447.9	1457.9	1514.6	1650.1	1781.7	1822.8	1867.8	1685.1	1367.0
20°	1493.8	1497.3	1495.1	1487.7	1508.1	1608.5	1743.6	1802.4	1943.6	1777.8	1405.5
22.5°	1600.7	1595.5	1589.0	1561.8	1560.5	1620.2	1722.8	1784.3	1988.6	1854.4	1431.0
25°	1733.2	1722.4	1713.3	1674.7	1656.6	1681.2	1741.4	1790.8	2029.3	1928.8	1449.2
27.5°	1877.8	1881.2	1858.7	1806.8	1778.2	1773.0	1799.0	1835.8	2068.7	1995.5	1459.2
30°	2032.3	2034.0	2004.6	1950.9	1924.9	1891.6	1889.9	1912.0	2111.1	2072.1	1468.7
32.5°	2208.5	2213.2	2165.2	2109.3	2063.9	2020.6	1999.4	2018.0	2187.3	2172.1	1488.2
35°	2463.0	2442.2	2377.3	2292.9	2228.4	2171.7	2139.2	2151.3	2288.5	2292.0	1527.1
37.5°	2725.3	2723.1	2651.3	2529.6	2424.0	2353.5	2298.1	2318.0	2431.0	2452.6	1589.5
40°	2969.9	2975.5	2913.2	2807.1	2671.2	2550.0	2490.7	2504.1	2620.1	2647.4	1665.2
42.5°	3129.6	3126.6	3131.3	3101.0	2964.7	2821.8	2732.7	2740.0	2840.0	2854.3	1760.0
45°	3203.2	3191.5	3232.2	3328.3	3274.2	3124.0	3022.2	3013.2	3068.1	3064.2	1846.2
47.5°	3139.6	3117.9	3211.4	3443.0	3547.7	3502.3	3356.8	3340.4	3293.7	3262.5	1935.8
50°	2823.1	2813.6	3013.6	3388.4	3719.6	3852.0	3745.1	3684.1	3494.9	3408.8	1982.9
52.5°	2522.3	2495.9	2630.9	3110.1	3643.0	4133.4	4155.5	4046.8	3662.0	3450.8	1966.9
55°	2037.5	2005.0	2152.2	2555.2	3339.5	4169.3	4443.8	4387.1	3808.3	3398.8	1934.5
57.5°	1237.6	1205.5	1422.0	1830.1	2670.8	3870.7	4372.8	4430.3	3920.9	3341.7	1913.3
60°	520.3	500.0	584.8	873.5	1705.5	3181.1	3996.2	4139.9	3942.1	3263.4	1921.9
62.5°	270.5	261.4	266.2	349.8	689.6	2094.6	3326.1	3576.3	3728.2	3228.7	1930.6
65°	203.0	196.1	180.9	192.2	267.9	905.5	2390.3	2725.3	3264.6	3140.9	1872.1
67.5°	166.7	160.2	149.3	145.9	158.0	314.3	1220.2	1655.7	2558.2	2766.4	1662.6
70°	132.9	130.7	127.3	120.8	118.6	152.4	437.6	674.8	1691.6	1950.9	1205.1
72.5°	110.8	111.2	107.3	101.7	93.9	98.3	174.4	230.7	818.5	935.4	504.7
75°	92.6	92.6	93.9	86.1	78.3	67.5	97.0	112.5	262.7	216.0	107.8
77.5°	72.7	73.6	79.2	72.7	62.8	42.4	52.8	60.2	77.9	62.3	39.4
80°	58.0	57.1	55.0	65.4	56.3	29.9	25.1	27.7	36.4	29.9	19.5
82.5°	40.7	40.3	38.5	44.2	43.7	22.1	16.4	16.9	22.1	19.0	12.1
85°	10.0	11.7	24.7	20.8	18.2	13.0	10.0	10.8	14.3	12.6	6.5
87.5°	4.3	4.3	11.3	13.4	8.7	5.6	4.3	4.8	7.4	7.4	3.9
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: P674463  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2
2.5°	1160.1	1131.9	1096.4	1058.8	1020.3	973.9	944.5	920.3	901.2	886.5	881.3
5°	1164.4	1110.3	1029.8	929.8	828.1	732.8	659.2	604.7	559.7	535.0	524.2
7.5°	1164.0	1092.1	946.7	779.2	613.8	476.6	379.2	319.0	278.8	262.3	252.4
10°	1163.5	1068.3	851.9	612.1	410.4	276.2	203.4	169.7	155.0	149.3	148.5
12.5°	1176.1	1041.0	745.8	450.6	257.6	171.8	141.5	133.8	130.3	128.6	128.1
15°	1183.0	1015.9	634.1	318.2	173.6	135.9	126.4	122.9	121.6	120.8	120.3
17.5°	1190.4	977.0	528.1	230.3	138.9	123.4	117.7	115.6	114.7	114.7	114.7
20°	1191.7	935.0	422.9	169.7	123.4	115.1	109.5	107.3	106.1	105.2	105.2
22.5°	1182.1	885.2	332.4	137.7	114.3	107.3	101.3	97.8	95.7	95.2	95.2
25°	1158.3	814.6	255.0	120.8	106.9	99.6	92.2	88.3	86.6	86.6	86.6
27.5°	1124.1	731.5	197.0	107.3	97.4	90.0	83.5	80.1	79.6	79.2	79.6
30°	1085.2	651.5	150.6	95.2	86.1	80.1	74.9	73.2	74.0	74.0	74.5
32.5°	1046.2	571.4	117.7	85.7	76.2	71.0	68.4	68.4	69.7	69.7	69.7
35°	1012.9	493.0	98.7	77.9	69.3	64.9	63.6	64.9	65.8	66.2	66.2
37.5°	994.3	425.5	87.0	71.0	63.6	60.2	59.7	61.0	62.8	64.1	64.5
40°	987.4	373.6	80.1	65.8	58.4	56.3	55.8	57.6	60.6	62.8	63.2
42.5°	987.8	327.7	74.0	60.6	55.0	51.9	51.9	54.5	57.6	59.7	59.7
45°	990.8	288.3	68.0	55.4	51.9	46.7	47.2	50.6	52.8	55.0	55.0
47.5°	993.4	256.7	61.5	49.8	45.0	42.4	43.3	45.9	48.9	52.4	52.4
50°	978.3	234.2	55.0	43.7	39.4	38.5	40.3	42.4	46.7	50.2	50.6
52.5°	941.9	213.8	49.3	39.0	35.5	35.9	38.1	39.4	42.9	43.3	43.7
55°	925.9	203.4	45.0	35.5	32.5	33.8	35.1	35.5	34.6	32.5	32.5
57.5°	922.4	196.5	40.7	32.0	29.9	31.6	31.2	28.6	26.0	23.4	22.9
60°	925.9	187.0	37.2	27.7	27.3	27.7	26.4	21.6	18.2	16.4	15.6
62.5°	906.0	173.1	34.2	23.8	23.8	23.4	19.9	14.7	11.7	10.4	10.0
65°	840.2	145.9	31.2	19.9	19.5	18.6	13.4	10.0	7.8	6.5	6.1
67.5°	710.8	113.0	28.1	16.4	15.6	13.0	8.7	6.5	4.3	3.9	3.5
70°	484.8	70.1	23.8	13.0	11.7	8.2	5.2	3.9	2.6	2.2	1.7
72.5°	175.7	40.7	19.9	10.0	7.8	5.2	3.0	1.7	1.3	1.3	0.9
75°	41.6	28.6	15.2	7.4	5.2	3.0	1.7	1.3	0.9	0.9	0.4
77.5°	19.0	22.1	10.0	4.3	3.5	2.2	1.3	0.9	0.4	0.4	0.0
80°	10.8	15.6	4.8	3.0	2.6	1.7	0.9	0.4	0.4	0.0	0.0
82.5°	5.6	8.7	3.5	2.6	2.2	1.3	0.9	0.0	0.0	0.0	0.0
85°	3.9	4.3	2.6	2.2	1.7	1.3	0.9	0.0	0.0	0.0	0.0
87.5°	3.0	3.0	2.6	2.2	1.7	1.3	0.4	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)