

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: P674484

Luminaire Tested: **CCP-SA-1E-840-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674484
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1E-840-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ AFL distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

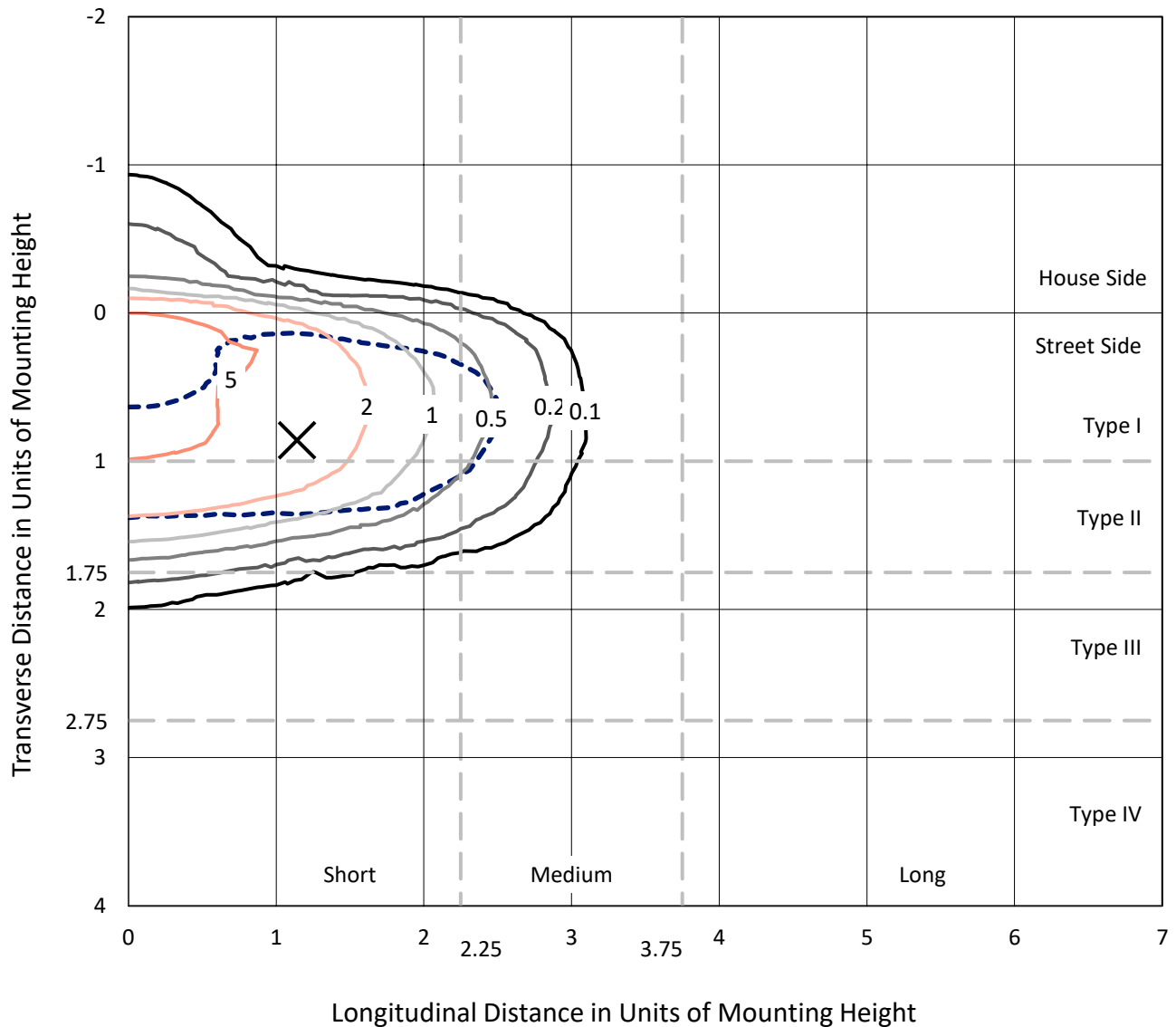
Lumens per Lamp: N/A
Luminaire Lumens: 4833.9 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1
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: P674484
 CATALOG NUMBER: CCP-SA-1E-840-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

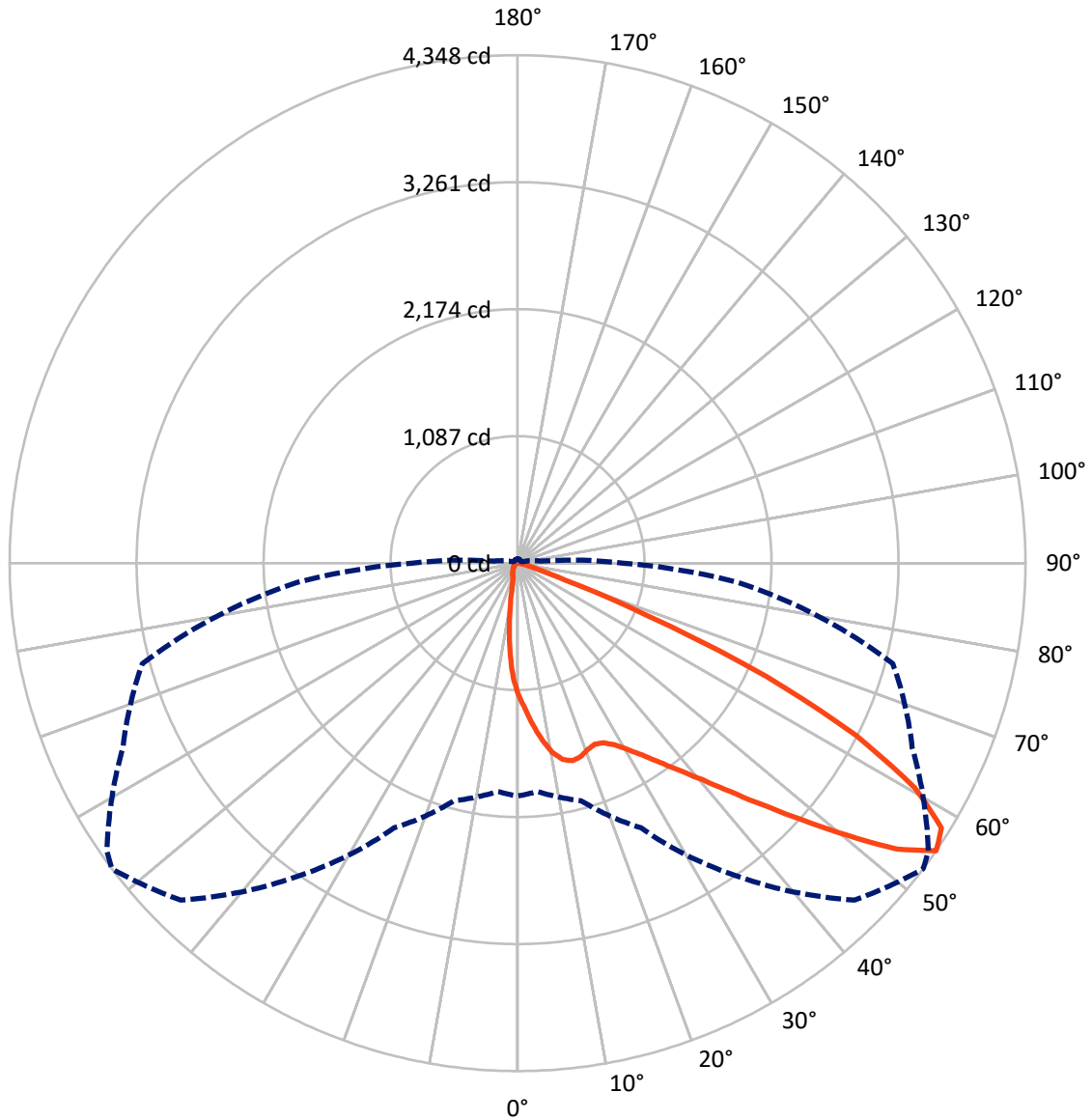
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

REPORT NUMBER: P674484
CATALOG NUMBER: CCP-SA-1E-840-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P674484

CATALOG NUMBER: CCP-SA-1E-840-U-AFL-HSS

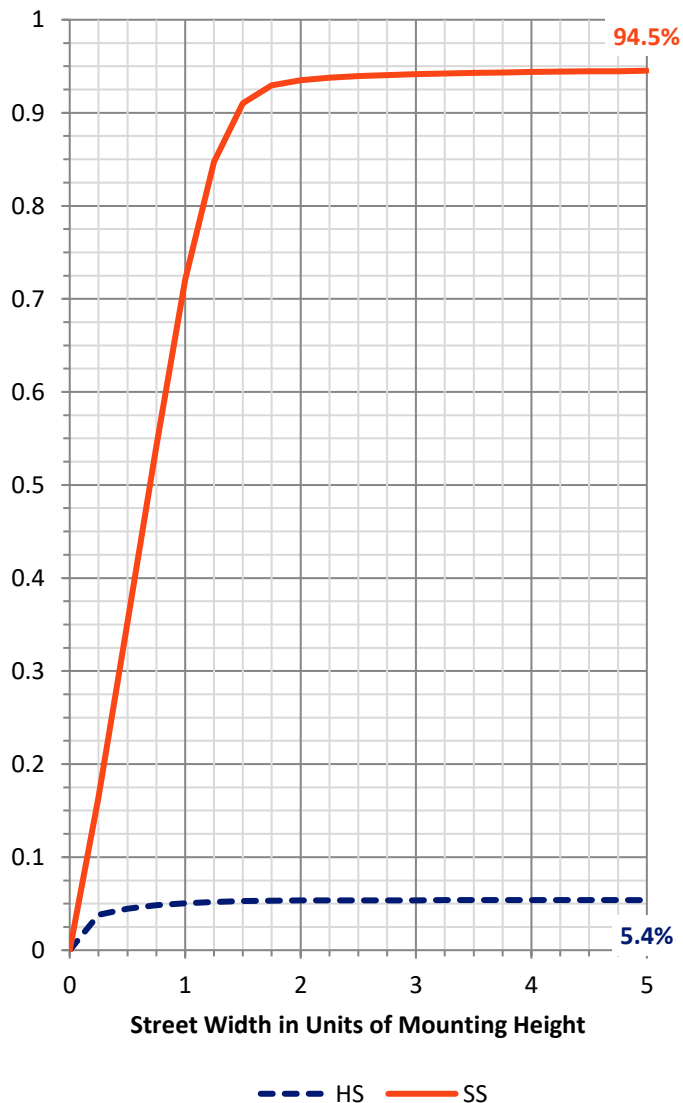
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	261.3	0.0	261.3
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	4572.7	0.0	4572.7
	% Fixture	94.6	0.0	94.6
Total	Lumens	4833.9	0.0	4833.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	2.1
10°-20°	264.3	5.5
20°-30°	442.3	9.2
30°-40°	723.7	15.0
40°-50°	1163.2	24.1
50°-60°	1313.3	27.2
60°-70°	700.5	14.5
70°-80°	115.1	2.4
80°-90°	10.3	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°	4833.9	100.0
0°-180°	4833.9	100.0



REPORT NUMBER: P674484

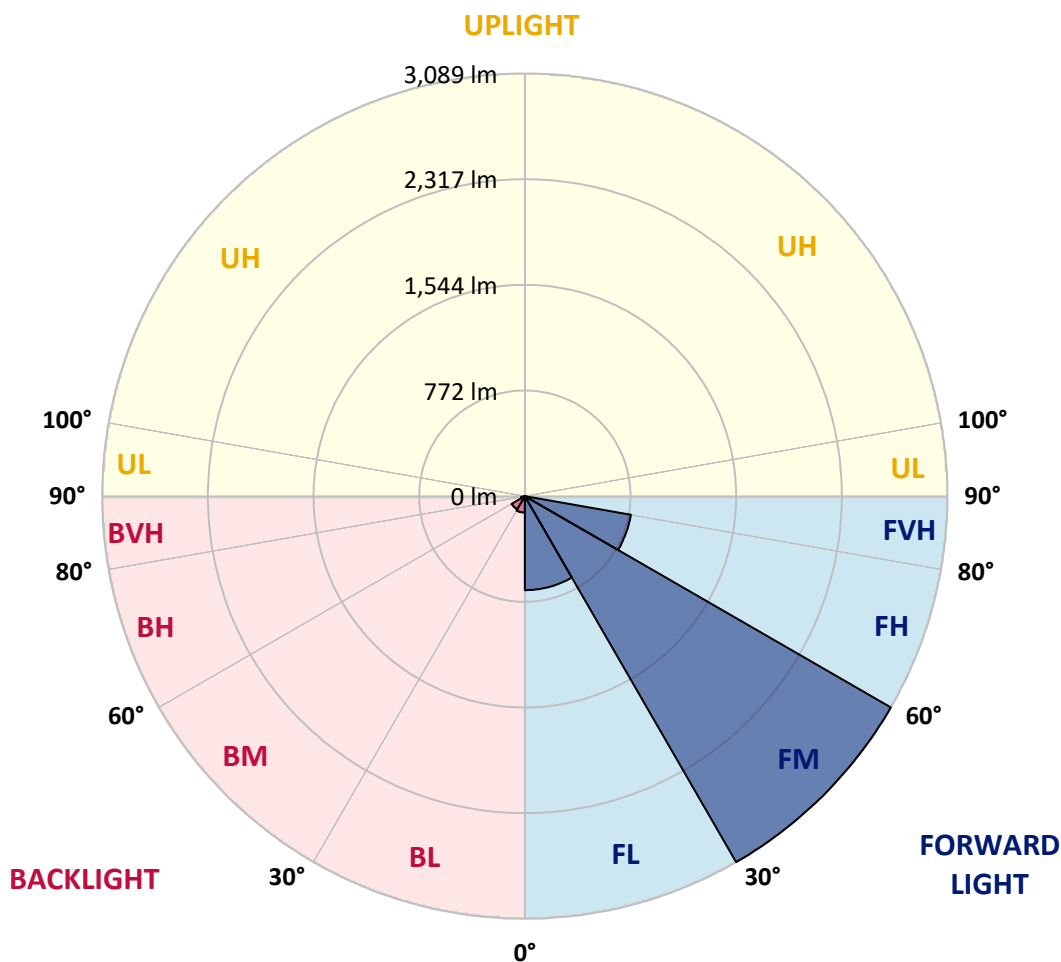
CATALOG NUMBER: CCP-SA-1E-840-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	687.2	14.2			
FM (30°-60°)	3088.9	63.9			
FH (60°-80°)	787.1	16.3			G1/1800
FVH (80°-90°)	9.5	0.2			G0/10
BL (0°-30°)	120.6	2.5	B1/500		
BM (30°-60°)	111.3	2.3	B0/220		
BH (60°-80°)	28.6	0.6	B0/110		G0/110
BVH (80°-90°)	0.8	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: P674484

CATALOG NUMBER: CCP-SA-1E-840-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3
2.5°	1356.6	1348.5	1353.2	1340.9	1318.5	1290.5	1248.6	1250.7	1217.7	1188.9	1149.0
5°	1580.6	1572.2	1569.6	1538.3	1506.9	1456.5	1394.3	1384.1	1323.5	1250.3	1166.8
7.5°	1698.8	1691.6	1697.1	1685.7	1654.7	1609.0	1530.2	1522.6	1429.0	1318.0	1195.2
10°	1644.6	1642.0	1665.3	1692.4	1717.4	1711.9	1648.8	1637.0	1531.9	1392.6	1224.4
12.5°	1498.9	1506.9	1536.6	1586.6	1663.6	1736.1	1725.9	1728.0	1637.0	1473.5	1256.6
15°	1413.3	1423.1	1440.0	1465.8	1560.7	1689.5	1755.1	1776.3	1737.8	1563.7	1294.7
17.5°	1406.1	1414.2	1416.7	1426.5	1481.9	1614.5	1743.3	1783.5	1827.5	1648.8	1337.5
20°	1461.6	1465.0	1462.9	1455.7	1475.6	1573.9	1706.0	1763.6	1901.7	1739.5	1375.2
22.5°	1566.2	1561.1	1554.8	1528.1	1526.8	1585.3	1685.7	1745.8	1945.7	1814.4	1400.2
25°	1695.8	1685.2	1676.3	1638.7	1620.9	1645.0	1703.9	1752.2	1985.5	1887.3	1418.0
27.5°	1837.3	1840.7	1818.7	1767.8	1739.9	1734.8	1760.2	1796.2	2024.1	1952.5	1427.7
30°	1988.5	1990.2	1961.4	1908.9	1883.5	1850.8	1849.1	1870.7	2065.6	2027.5	1437.0
32.5°	2160.9	2165.5	2118.5	2063.9	2019.4	1977.1	1956.3	1974.5	2140.1	2125.3	1456.1
35°	2409.9	2389.6	2326.0	2243.5	2180.3	2124.9	2093.1	2105.0	2239.2	2242.6	1494.2
37.5°	2666.6	2664.4	2594.1	2475.1	2371.8	2302.8	2248.5	2268.0	2378.6	2399.7	1555.2
40°	2905.9	2911.4	2850.4	2746.6	2613.6	2495.0	2437.0	2450.1	2563.6	2590.3	1629.3
42.5°	3062.1	3059.2	3063.8	3034.2	2900.8	2761.0	2673.8	2681.0	2778.8	2792.8	1722.1
45°	3134.1	3122.7	3162.5	3256.5	3203.6	3056.6	2957.1	2948.2	3002.0	2998.2	1806.4
47.5°	3071.9	3050.7	3142.2	3368.8	3471.3	3426.8	3284.5	3268.4	3222.7	3192.2	1894.0
50°	2762.3	2753.0	2948.6	3315.4	3639.4	3769.0	3664.4	3604.7	3419.6	3335.3	1940.2
52.5°	2467.9	2442.1	2574.2	3043.1	3564.5	4044.3	4065.9	3959.6	3583.1	3376.4	1924.5
55°	1993.6	1961.8	2105.8	2500.1	3267.6	4079.5	4348.0	4292.5	3726.2	3325.6	1892.8
57.5°	1210.9	1179.5	1391.3	1790.7	2613.2	3787.2	4278.5	4334.9	3836.4	3269.7	1872.0
60°	509.1	489.2	572.2	854.7	1668.7	3112.5	3910.1	4050.7	3857.1	3193.0	1880.5
62.5°	264.7	255.8	260.5	342.2	674.7	2049.5	3254.4	3499.2	3647.9	3159.1	1889.0
65°	198.6	191.9	177.0	188.0	262.2	886.0	2338.8	2666.6	3194.3	3073.2	1831.8
67.5°	163.1	156.7	146.1	142.7	154.6	307.5	1193.9	1620.0	2503.1	2706.8	1626.8
70°	130.0	127.9	124.5	118.2	116.0	149.1	428.2	660.3	1655.2	1908.9	1179.1
72.5°	108.4	108.8	105.0	99.5	91.9	96.1	170.7	225.7	800.9	915.3	493.8
75°	90.6	90.6	91.9	84.3	76.7	66.1	94.9	110.1	257.1	211.3	105.5
77.5°	71.2	72.0	77.5	71.2	61.4	41.5	51.7	58.9	76.2	61.0	38.5
80°	56.8	55.9	53.8	64.0	55.1	29.2	24.6	27.1	35.6	29.2	19.1
82.5°	39.8	39.4	37.7	43.2	42.8	21.6	16.1	16.5	21.6	18.6	11.9
85°	9.7	11.4	24.1	20.3	17.8	12.7	9.7	10.6	14.0	12.3	6.4
87.5°	4.2	4.2	11.0	13.1	8.5	5.5	4.2	4.7	7.2	7.2	3.8
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: P674484
 CATALOG NUMBER: CCP-SA-1E-840-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3	1131.3
2.5°	1135.1	1107.5	1072.8	1036.0	998.3	953.0	924.1	900.4	881.8	867.4	862.3
5°	1139.3	1086.4	1007.6	909.7	810.2	717.0	645.0	591.7	547.6	523.5	512.9
7.5°	1138.9	1068.6	926.3	762.4	600.6	466.3	371.0	312.1	272.8	256.7	246.9
10°	1138.5	1045.3	833.5	598.9	401.5	270.2	199.1	166.0	151.6	146.1	145.3
12.5°	1150.7	1018.6	729.7	440.9	252.0	168.1	138.5	130.9	127.5	125.8	125.4
15°	1157.5	994.0	620.5	311.3	169.8	133.0	123.7	120.3	119.0	118.2	117.7
17.5°	1164.7	955.9	516.7	225.3	136.0	120.7	115.2	113.1	112.2	112.2	112.2
20°	1166.0	914.8	413.8	166.0	120.7	112.7	107.2	105.0	103.8	102.9	102.9
22.5°	1156.7	866.1	325.3	134.7	111.8	105.0	99.1	95.7	93.6	93.2	93.2
25°	1133.4	797.1	249.5	118.2	104.6	97.4	90.2	86.4	84.7	84.7	84.7
27.5°	1099.9	715.8	192.7	105.0	95.3	88.1	81.7	78.4	77.9	77.5	77.9
30°	1061.8	637.4	147.4	93.2	84.3	78.4	73.3	71.6	72.4	72.4	72.8
32.5°	1023.7	559.1	115.2	83.9	74.5	69.5	66.9	66.9	68.2	68.2	68.2
35°	991.1	482.4	96.6	76.2	67.8	63.5	62.3	63.5	64.4	64.8	64.8
37.5°	972.9	416.3	85.1	69.5	62.3	58.9	58.4	59.7	61.4	62.7	63.1
40°	966.1	365.5	78.4	64.4	57.2	55.1	54.6	56.3	59.3	61.4	61.8
42.5°	966.5	320.6	72.4	59.3	53.8	50.8	50.8	53.4	56.3	58.4	58.4
45°	969.5	282.1	66.5	54.2	50.8	45.7	46.2	49.6	51.7	53.8	53.8
47.5°	972.0	251.2	60.1	48.7	44.0	41.5	42.4	44.9	47.9	51.2	51.2
50°	957.2	229.1	53.8	42.8	38.5	37.7	39.4	41.5	45.7	49.1	49.6
52.5°	921.6	209.2	48.3	38.1	34.7	35.2	37.3	38.5	41.9	42.4	42.8
55°	905.9	199.1	44.0	34.7	31.8	33.0	34.3	34.7	33.9	31.8	31.8
57.5°	902.5	192.3	39.8	31.3	29.2	30.9	30.5	28.0	25.4	22.9	22.4
60°	905.9	183.0	36.4	27.1	26.7	27.1	25.8	21.2	17.8	16.1	15.2
62.5°	886.5	169.4	33.5	23.3	23.3	22.9	19.5	14.4	11.4	10.2	9.7
65°	822.1	142.7	30.5	19.5	19.1	18.2	13.1	9.7	7.6	6.4	5.9
67.5°	695.4	110.5	27.5	16.1	15.2	12.7	8.5	6.4	4.2	3.8	3.4
70°	474.4	68.6	23.3	12.7	11.4	8.0	5.1	3.8	2.5	2.1	1.7
72.5°	172.0	39.8	19.5	9.7	7.6	5.1	3.0	1.7	1.3	1.3	0.8
75°	40.7	28.0	14.8	7.2	5.1	3.0	1.7	1.3	0.8	0.8	0.4
77.5°	18.6	21.6	9.7	4.2	3.4	2.1	1.3	0.8	0.4	0.4	0.0
80°	10.6	15.2	4.7	3.0	2.5	1.7	0.8	0.4	0.4	0.0	0.0
82.5°	5.5	8.5	3.4	2.5	2.1	1.3	0.8	0.0	0.0	0.0	0.0
85°	3.8	4.2	2.5	2.1	1.7	1.3	0.8	0.0	0.0	0.0	0.0
87.5°	3.0	3.0	2.5	2.1	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)