

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: P674496

Luminaire Tested: **CCP-SA-1F-850-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674496
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1F-850-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1200mA w/ AFL distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

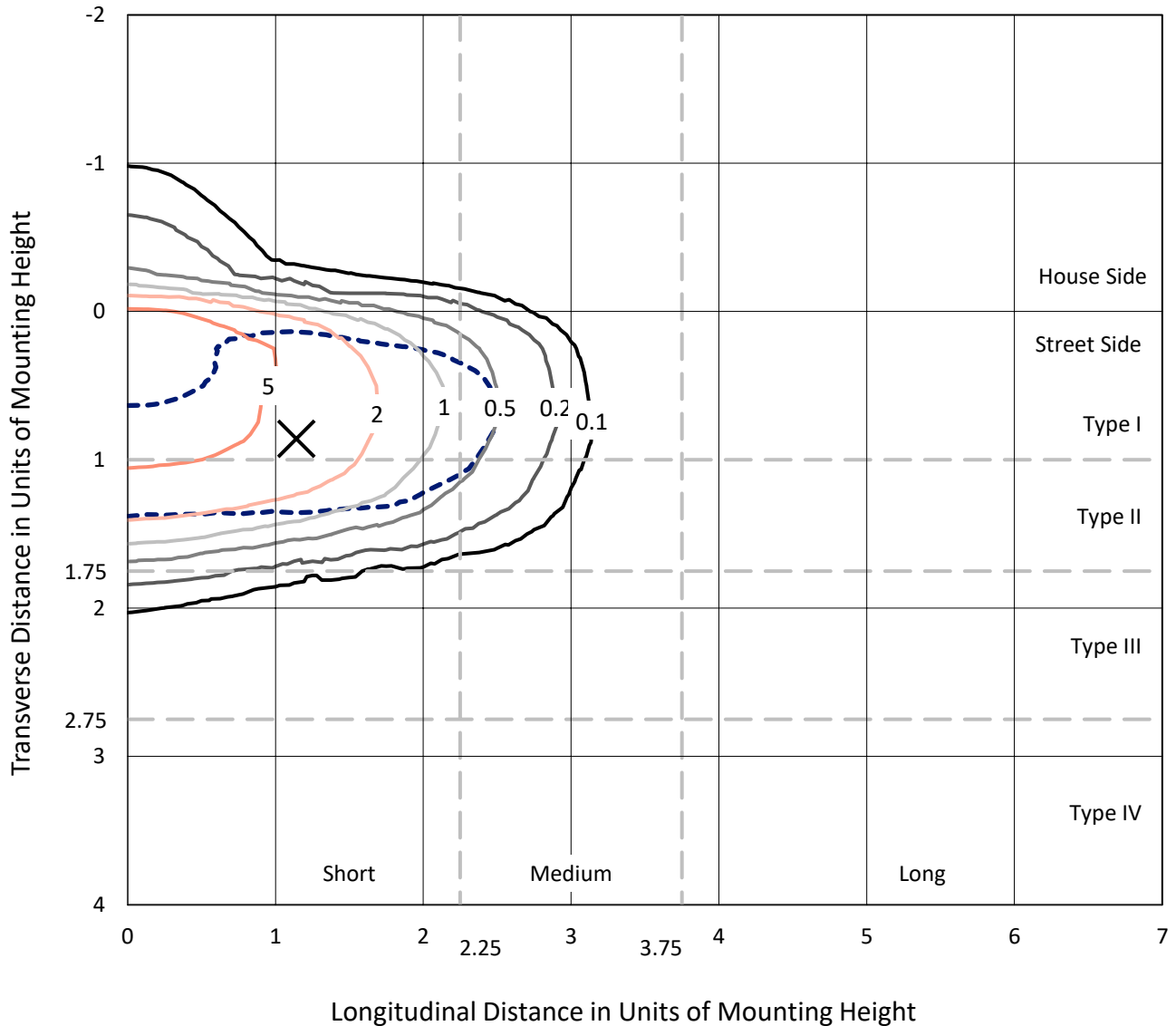
Lumens per Lamp: N/A
Luminaire Lumens: 5425.4 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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: P674496
 CATALOG NUMBER: CCP-SA-1F-850-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

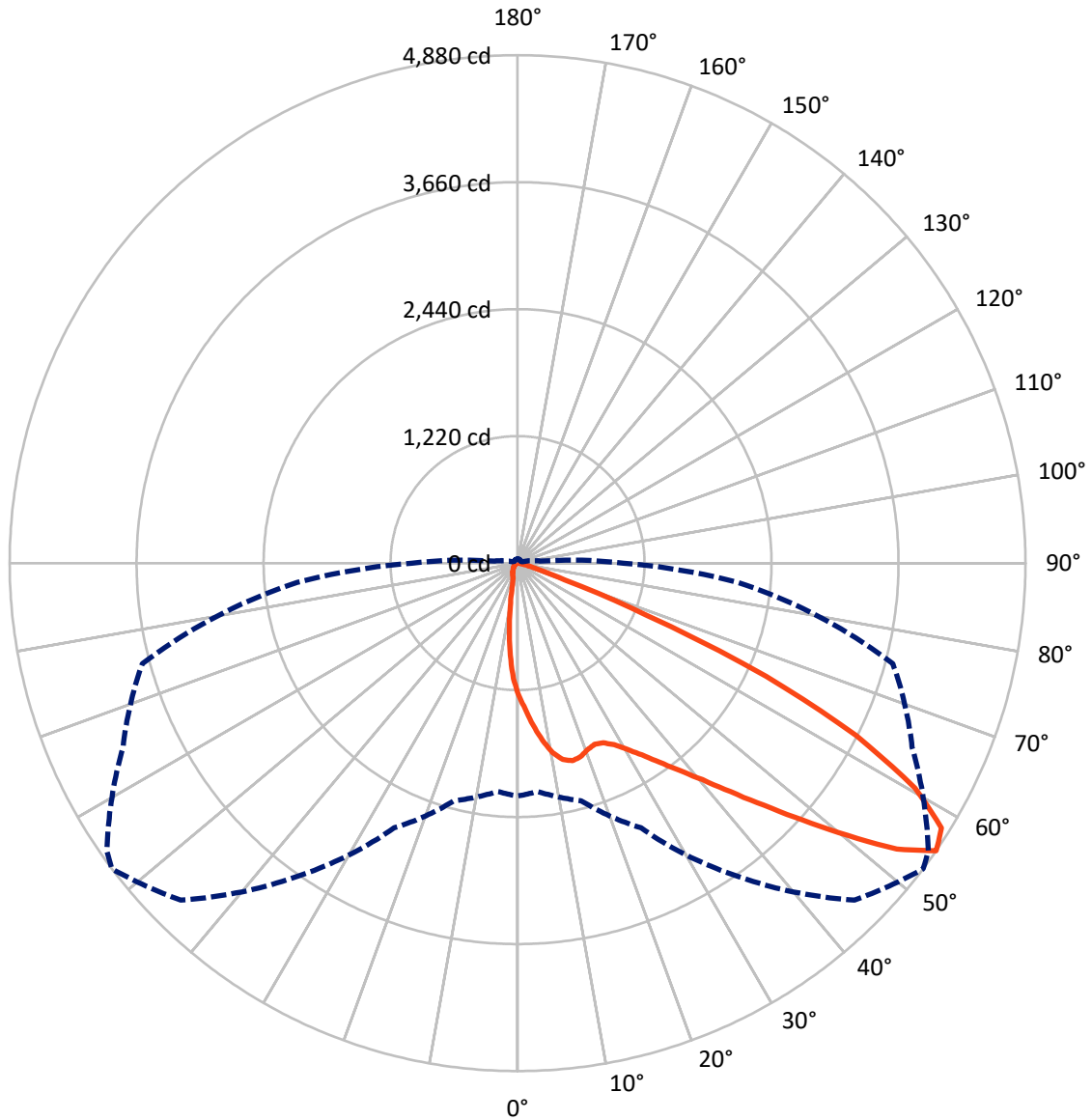
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

REPORT NUMBER: P674496
CATALOG NUMBER: CCP-SA-1F-850-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P674496

CATALOG NUMBER: CCP-SA-1F-850-U-AFL-HSS

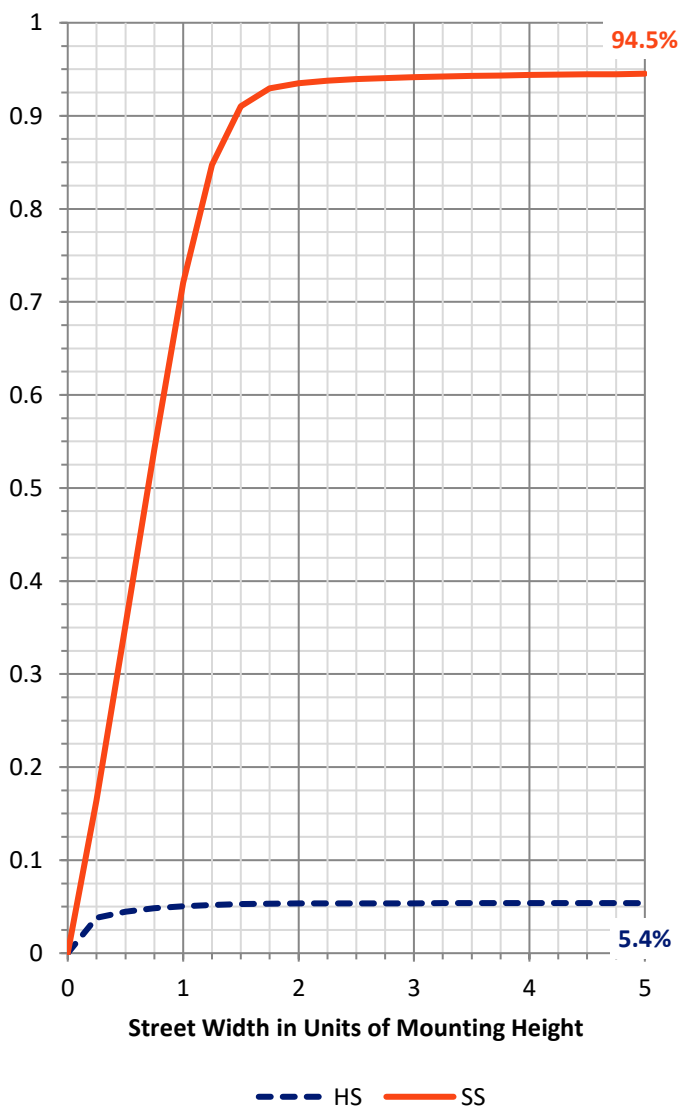
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	293.3	0.0	293.3
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	5132.1	0.0	5132.1
	% Fixture	94.6	0.0	94.6
Total	Lumens	5425.4	0.0	5425.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	2.1
10°-20°	296.6	5.5
20°-30°	496.4	9.2
30°-40°	812.2	15.0
40°-50°	1305.6	24.1
50°-60°	1474.0	27.2
60°-70°	786.3	14.5
70°-80°	129.2	2.4
80°-90°	11.6	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°	5425.4	100.0
0°-180°	5425.4	100.0

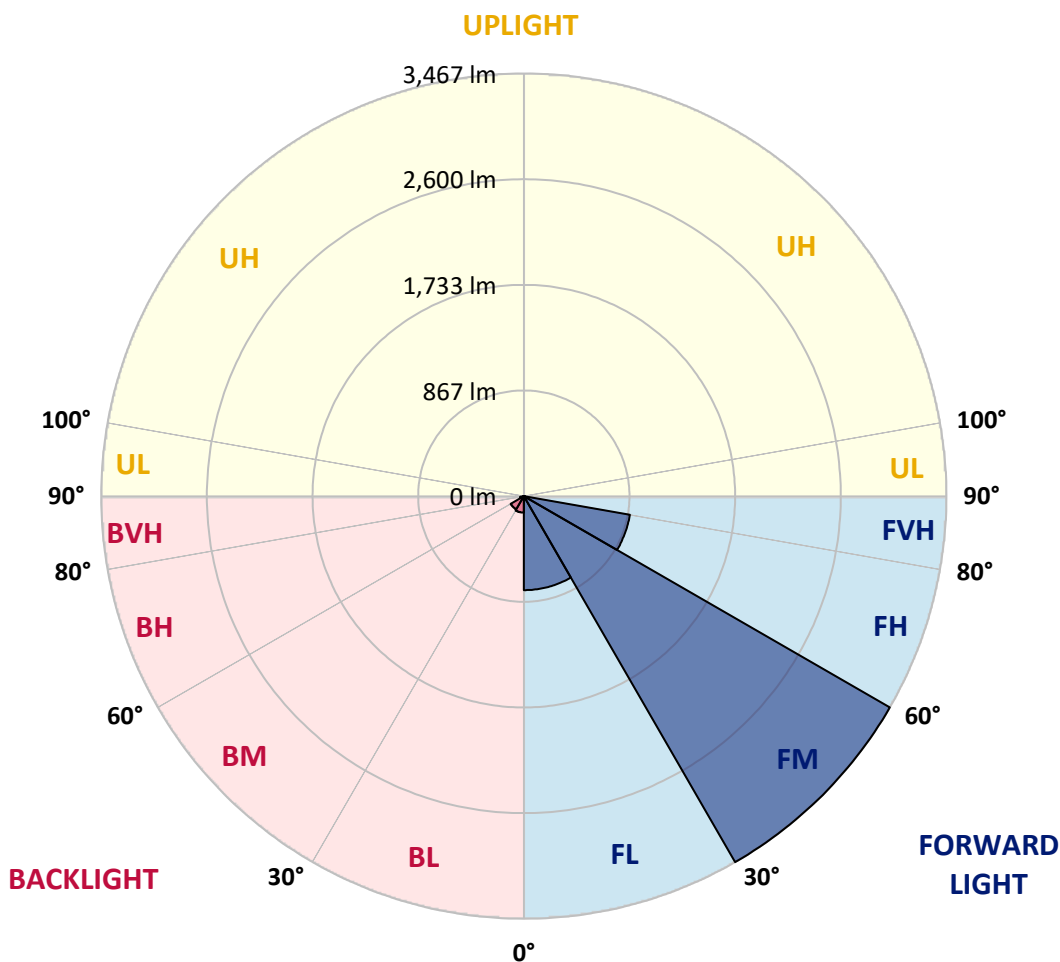


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	771.3	14.2			
FM (30°-60°)	3466.9	63.9			
FH (60°-80°)	883.4	16.3			G1/1800
FVH (80°-90°)	10.6	0.2			G1/100
BL (0°-30°)	135.3	2.5	B1/500		
BM (30°-60°)	124.9	2.3	B0/220		
BH (60°-80°)	32.1	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: P674496
 CATALOG NUMBER: CCP-SA-1F-850-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1269.7	1269.7	1269.7	1269.7	1269.7	1269.7	1269.7	1269.7	1269.7	1269.7	1269.7
2.5°	1522.6	1513.5	1518.8	1505.0	1479.8	1448.4	1401.3	1403.7	1366.6	1334.3	1289.6
5°	1774.0	1764.5	1761.7	1726.5	1691.3	1634.7	1564.9	1553.5	1485.5	1403.2	1309.6
7.5°	1906.6	1898.6	1904.7	1891.9	1857.2	1805.9	1717.5	1708.9	1603.8	1479.3	1341.4
10°	1845.8	1842.9	1869.1	1899.5	1927.6	1921.4	1850.6	1837.2	1719.4	1563.0	1374.2
12.5°	1682.3	1691.3	1724.6	1780.7	1867.2	1948.5	1937.1	1939.4	1837.2	1653.8	1410.4
15°	1586.3	1597.2	1616.2	1645.2	1751.7	1896.2	1969.9	1993.6	1950.4	1755.0	1453.2
17.5°	1578.2	1587.2	1590.1	1601.0	1663.3	1812.0	1956.6	2001.7	2051.2	1850.6	1501.2
20°	1640.4	1644.2	1641.9	1633.8	1656.1	1766.4	1914.7	1979.4	2134.3	1952.3	1543.5
22.5°	1757.9	1752.2	1745.0	1715.1	1713.6	1779.2	1891.9	1959.4	2183.8	2036.4	1571.5
25°	1903.3	1891.4	1881.4	1839.1	1819.2	1846.3	1912.3	1966.5	2228.5	2118.2	1591.5
27.5°	2062.1	2065.9	2041.2	1984.1	1952.8	1947.0	1975.6	2016.0	2271.7	2191.4	1602.4
30°	2231.8	2233.7	2201.4	2142.4	2113.9	2077.3	2075.4	2099.6	2318.3	2275.5	1612.9
32.5°	2425.3	2430.5	2377.7	2316.4	2266.5	2219.0	2195.7	2216.1	2402.0	2385.3	1634.3
35°	2704.8	2681.9	2610.6	2517.9	2447.1	2384.8	2349.2	2362.5	2513.2	2517.0	1677.0
37.5°	2992.8	2990.4	2911.5	2778.0	2662.0	2584.5	2523.7	2545.5	2669.6	2693.4	1745.5
40°	3261.4	3267.6	3199.1	3082.7	2933.4	2800.3	2735.2	2749.9	2877.3	2907.3	1828.7
42.5°	3436.8	3433.5	3438.7	3405.4	3255.7	3098.8	3000.9	3009.0	3118.8	3134.5	1932.8
45°	3517.6	3504.8	3549.5	3655.0	3595.6	3430.6	3318.9	3308.9	3369.3	3365.0	2027.4
47.5°	3447.7	3424.0	3526.6	3781.0	3896.0	3846.1	3686.4	3668.3	3617.0	3582.7	2125.8
50°	3100.3	3089.8	3309.4	3721.1	4084.7	4230.2	4112.8	4045.7	3838.0	3743.4	2177.6
52.5°	2769.9	2740.9	2889.2	3415.4	4000.6	4539.2	4563.4	4444.1	4021.5	3789.5	2160.0
55°	2237.5	2201.8	2363.5	2806.0	3667.4	4578.6	4880.0	4817.7	4182.2	3732.5	2124.4
57.5°	1359.0	1323.9	1561.5	2009.8	2932.9	4250.6	4802.0	4865.2	4305.8	3669.7	2101.1
60°	571.4	549.0	642.2	959.3	1872.9	3493.4	4388.5	4546.3	4329.0	3583.7	2110.6
62.5°	297.1	287.1	292.3	384.1	757.2	2300.2	3652.6	3927.4	4094.2	3545.7	2120.1
65°	222.9	215.3	198.7	211.1	294.2	994.4	2624.9	2992.8	3585.1	3449.2	2055.9
67.5°	183.0	175.9	164.0	160.2	173.5	345.1	1340.0	1818.2	2809.3	3038.0	1825.8
70°	145.9	143.6	139.8	132.6	130.2	167.3	480.6	741.1	1857.7	2142.4	1323.4
72.5°	121.7	122.2	117.9	111.7	103.2	107.9	191.6	253.4	898.9	1027.2	554.3
75°	101.7	101.7	103.2	94.6	86.0	74.2	106.5	123.6	288.5	237.2	118.4
77.5°	79.9	80.8	87.0	79.9	68.9	46.6	58.0	66.1	85.6	68.5	43.3
80°	63.7	62.7	60.4	71.8	61.8	32.8	27.6	30.4	39.9	32.8	21.4
82.5°	44.7	44.2	42.3	48.5	48.0	24.2	18.1	18.5	24.2	20.9	13.3
85°	10.9	12.8	27.1	22.8	20.0	14.3	10.9	11.9	15.7	13.8	7.1
87.5°	4.8	4.8	12.4	14.7	9.5	6.2	4.8	5.2	8.1	8.1	4.3
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°	1269.7	1269.7	1269.7	1269.7	1269.7	1269.7	1269.7	1269.7	1269.7	1269.7	1269.7
2.5°	1273.9	1243.0	1204.1	1162.7	1120.4	1069.5	1037.2	1010.6	989.7	973.5	967.8
5°	1278.7	1219.3	1130.9	1021.1	909.4	804.8	724.0	664.1	614.6	587.5	575.7
7.5°	1278.2	1199.3	1039.6	855.6	674.1	523.4	416.4	350.3	306.1	288.1	277.1
10°	1277.8	1173.2	935.5	672.1	450.6	303.3	223.4	186.3	170.2	164.0	163.0
12.5°	1291.5	1143.2	819.0	494.8	282.8	188.7	155.4	146.9	143.1	141.2	140.7
15°	1299.1	1115.7	696.4	349.4	190.6	149.3	138.8	135.0	133.6	132.6	132.1
17.5°	1307.2	1072.9	579.9	252.9	152.6	135.5	129.3	126.9	126.0	126.0	126.0
20°	1308.6	1026.8	464.4	186.3	135.5	126.4	120.3	117.9	116.5	115.5	115.5
22.5°	1298.2	972.1	365.1	151.2	125.5	117.9	111.2	107.4	105.1	104.6	104.6
25°	1272.0	894.6	280.0	132.6	117.4	109.3	101.3	97.0	95.1	95.1	95.1
27.5°	1234.5	803.3	216.3	117.9	107.0	98.9	91.7	87.9	87.5	87.0	87.5
30°	1191.7	715.4	165.4	104.6	94.6	87.9	82.2	80.3	81.3	81.3	81.8
32.5°	1148.9	627.5	129.3	94.1	83.7	78.0	75.1	75.1	76.5	76.5	76.5
35°	1112.3	541.4	108.4	85.6	76.1	71.3	69.9	71.3	72.3	72.7	72.7
37.5°	1091.9	467.3	95.5	78.0	69.9	66.1	65.6	67.0	68.9	70.4	70.8
40°	1084.3	410.2	87.9	72.3	64.2	61.8	61.3	63.2	66.5	68.9	69.4
42.5°	1084.8	359.8	81.3	66.5	60.4	57.0	57.0	59.9	63.2	65.6	65.6
45°	1088.1	316.6	74.6	60.8	57.0	51.3	51.8	55.6	58.0	60.4	60.4
47.5°	1090.9	281.9	67.5	54.7	49.4	46.6	47.5	50.4	53.7	57.5	57.5
50°	1074.3	257.2	60.4	48.0	43.3	42.3	44.2	46.6	51.3	55.1	55.6
52.5°	1034.4	234.8	54.2	42.8	39.0	39.5	41.8	43.3	47.1	47.5	48.0
55°	1016.8	223.4	49.4	39.0	35.7	37.1	38.5	39.0	38.0	35.7	35.7
57.5°	1013.0	215.8	44.7	35.2	32.8	34.7	34.2	31.4	28.5	25.7	25.2
60°	1016.8	205.4	40.9	30.4	29.9	30.4	29.0	23.8	20.0	18.1	17.1
62.5°	994.9	190.1	37.6	26.1	26.1	25.7	21.9	16.2	12.8	11.4	10.9
65°	922.7	160.2	34.2	21.9	21.4	20.4	14.7	10.9	8.6	7.1	6.7
67.5°	780.5	124.1	30.9	18.1	17.1	14.3	9.5	7.1	4.8	4.3	3.8
70°	532.4	77.0	26.1	14.3	12.8	9.0	5.7	4.3	2.9	2.4	1.9
72.5°	193.0	44.7	21.9	10.9	8.6	5.7	3.3	1.9	1.4	1.4	1.0
75°	45.6	31.4	16.6	8.1	5.7	3.3	1.9	1.4	1.0	1.0	0.5
77.5°	20.9	24.2	10.9	4.8	3.8	2.4	1.4	1.0	0.5	0.5	0.0
80°	11.9	17.1	5.2	3.3	2.9	1.9	1.0	0.5	0.5	0.0	0.0
82.5°	6.2	9.5	3.8	2.9	2.4	1.4	1.0	0.0	0.0	0.0	0.0
85°	4.3	4.8	2.9	2.4	1.9	1.4	1.0	0.0	0.0	0.0	0.0
87.5°	3.3	3.3	2.9	2.4	1.9	1.4	0.5	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)