

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: P674485

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

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674485
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1F-840-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1200mA w/ AFL distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

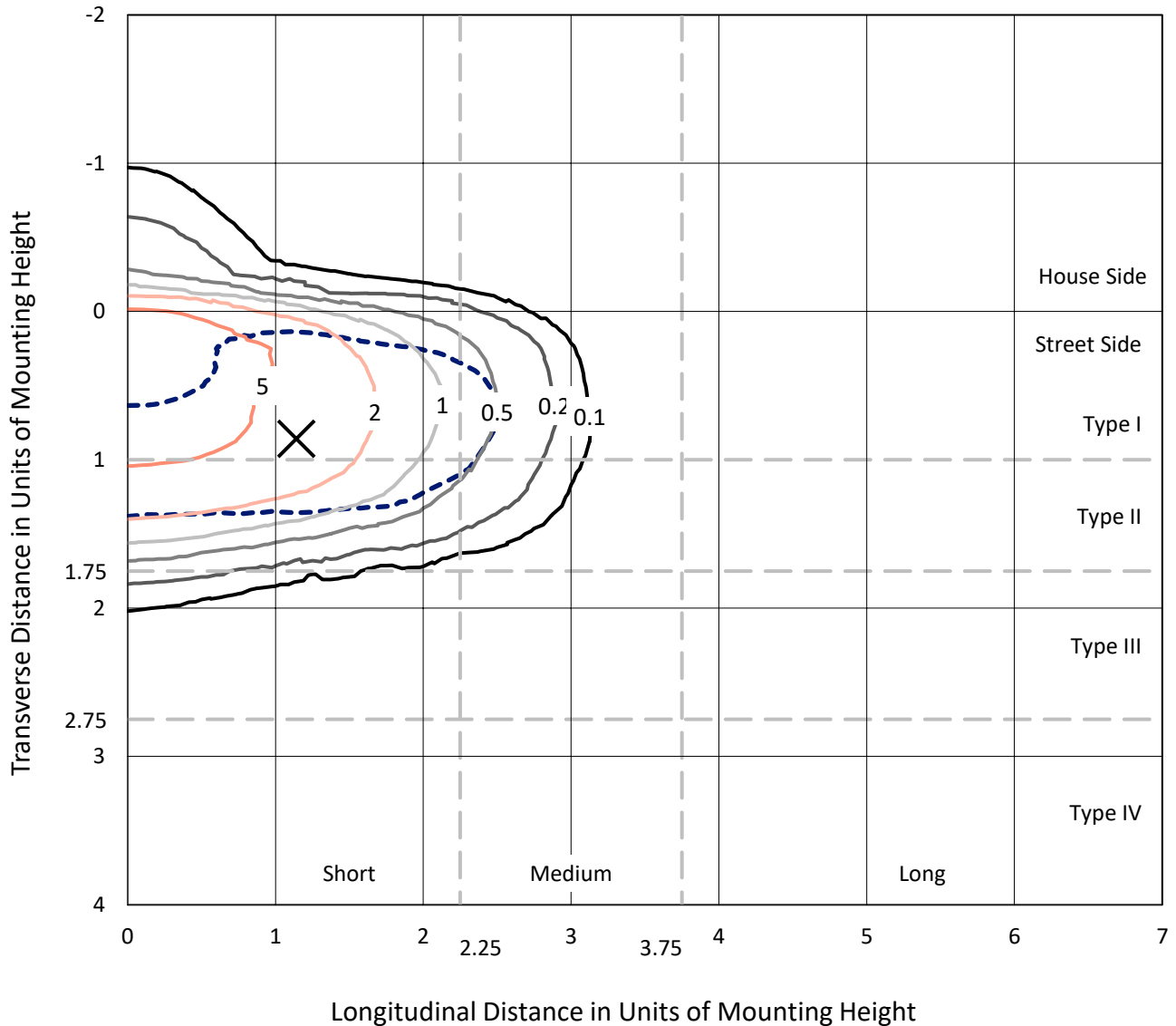
Lumens per Lamp: N/A
Luminaire Lumens: 5301.1 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

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Iso-Footcandle Lines of Horizontal Illumination

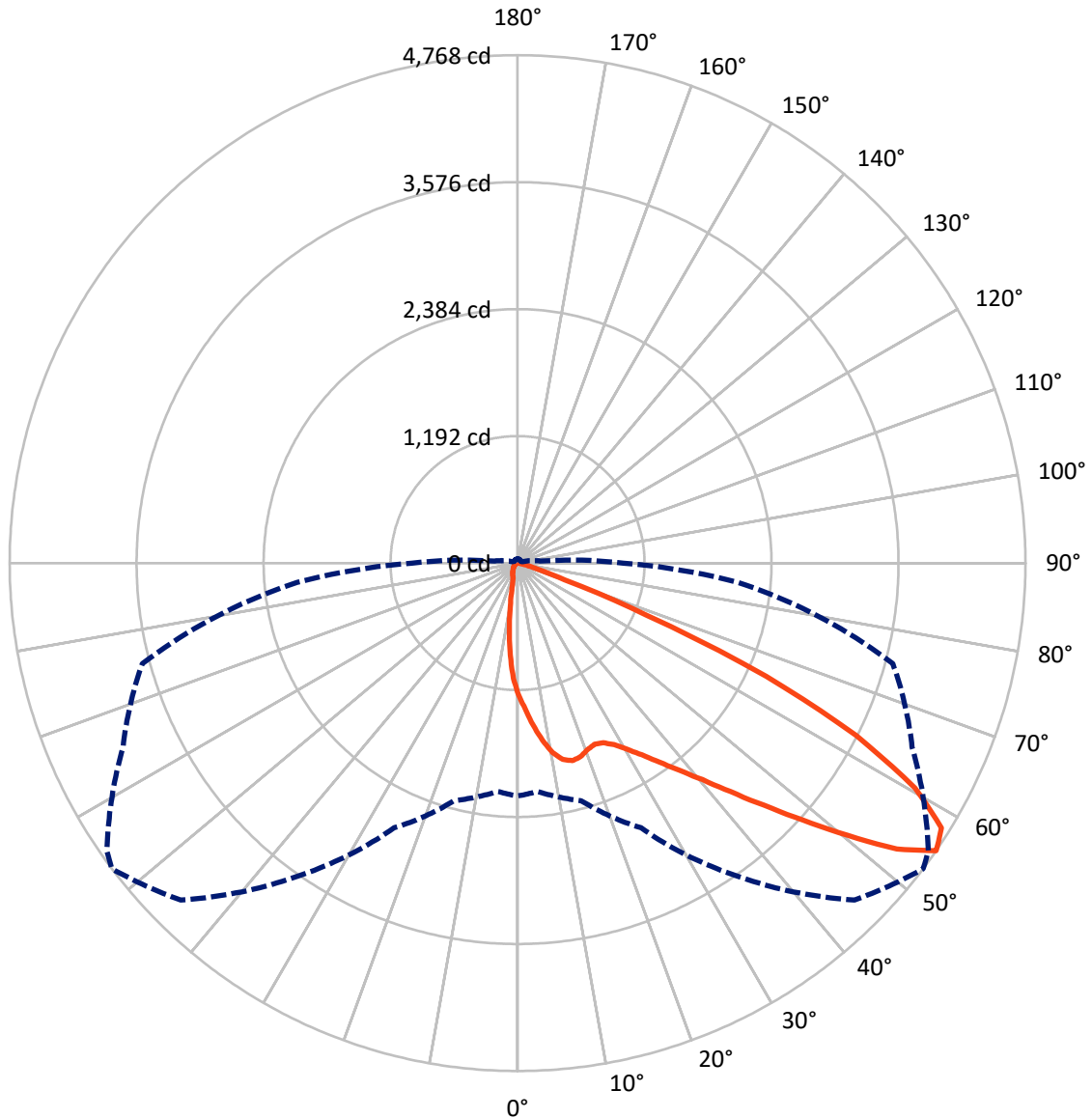
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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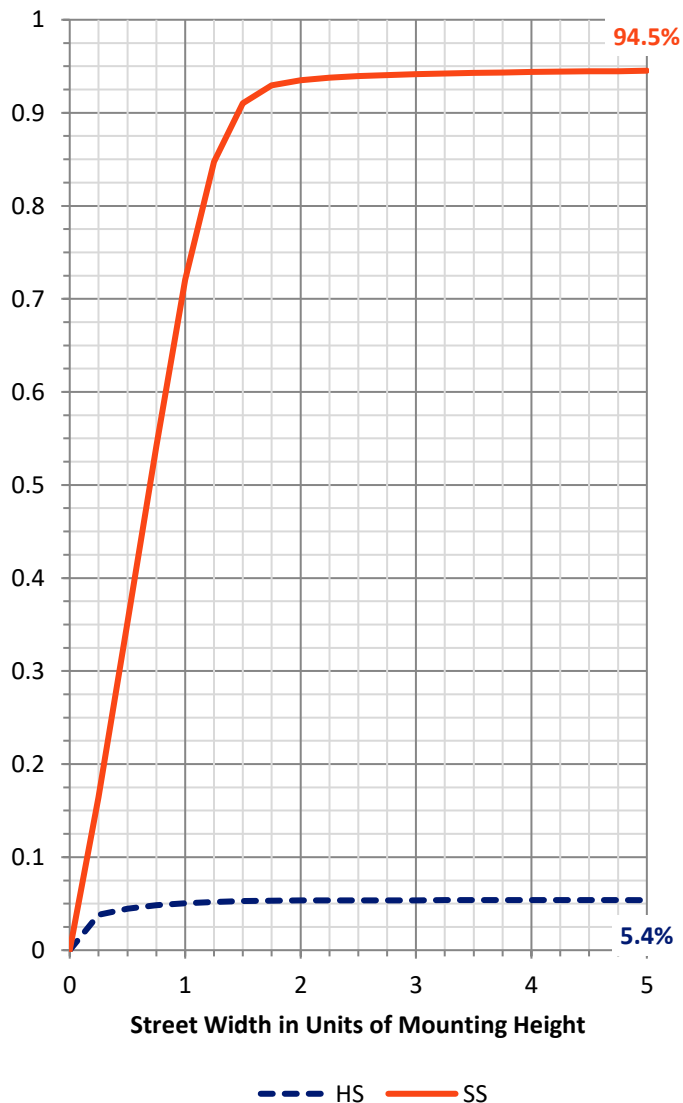
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	286.5	0.0	286.5
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	5014.5	0.0	5014.5
	% Fixture	94.6	0.0	94.6
Total	Lumens	5301.1	0.0	5301.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	2.1
10°-20°	289.8	5.5
20°-30°	485.1	9.2
30°-40°	793.6	15.0
40°-50°	1275.6	24.1
50°-60°	1440.2	27.2
60°-70°	768.2	14.5
70°-80°	126.2	2.4
80°-90°	11.3	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°	5301.1	100.0
0°-180°	5301.1	100.0



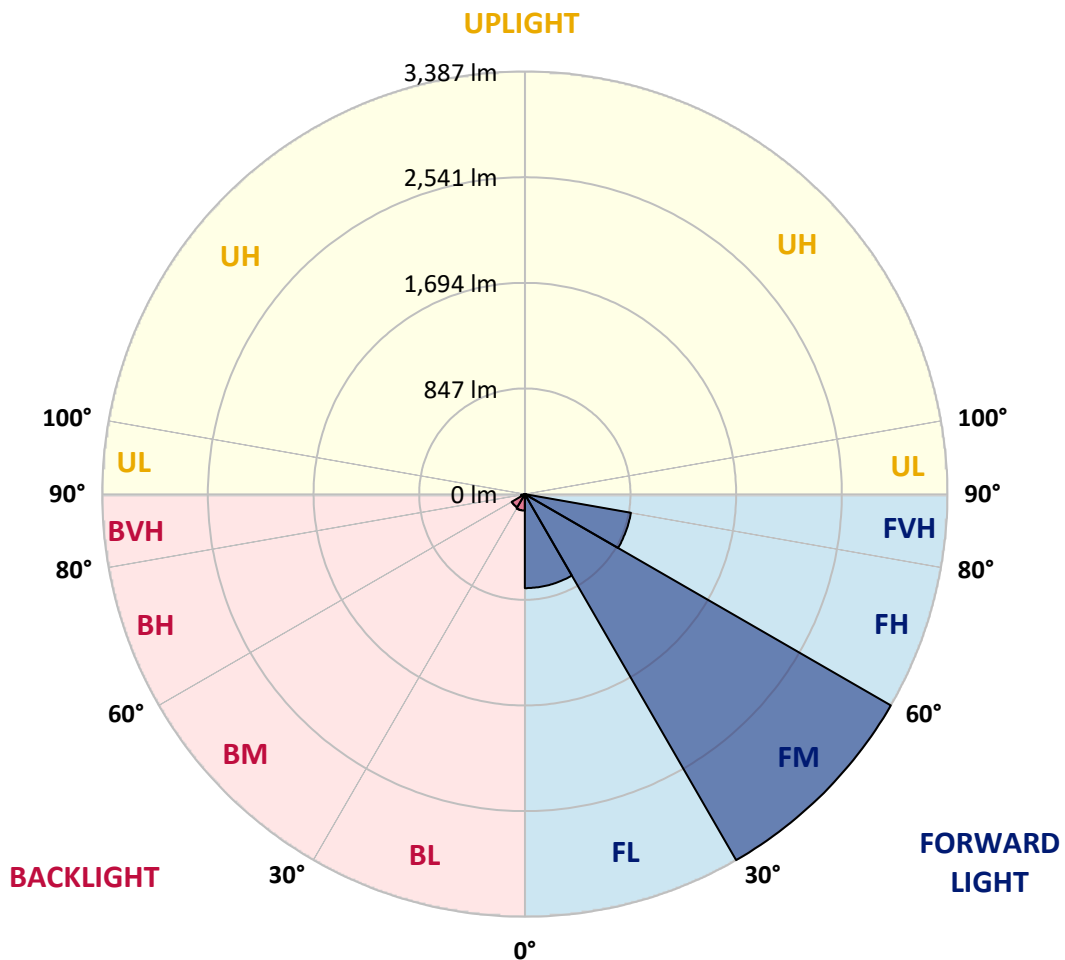
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	753.6	14.2			
FM (30°-60°)	3387.4	63.9			
FH (60°-80°)	863.1	16.3			G1/1800
FVH (80°-90°)	10.4	0.2			G1/100
BL (0°-30°)	132.2	2.5	B1/500		
BM (30°-60°)	122.1	2.3	B0/220		
BH (60°-80°)	31.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1240.6	1240.6	1240.6	1240.6	1240.6	1240.6	1240.6	1240.6	1240.6	1240.6	1240.6
2.5°	1487.7	1478.8	1483.9	1470.5	1445.9	1415.2	1369.2	1371.5	1335.3	1303.7	1260.1
5°	1733.4	1724.1	1721.3	1686.9	1652.5	1597.3	1529.0	1517.9	1451.4	1371.1	1279.6
7.5°	1862.9	1855.0	1861.1	1848.5	1814.6	1764.5	1678.1	1669.7	1567.1	1445.4	1310.7
10°	1803.5	1800.7	1826.3	1856.0	1883.4	1877.3	1808.1	1795.1	1679.9	1527.1	1342.7
12.5°	1643.7	1652.5	1685.1	1739.9	1824.4	1903.8	1892.7	1895.0	1795.1	1615.9	1378.0
15°	1549.9	1560.6	1579.2	1607.5	1711.5	1852.7	1924.7	1947.9	1905.7	1714.8	1419.8
17.5°	1542.0	1550.8	1553.6	1564.3	1625.1	1770.5	1911.7	1955.8	2004.1	1808.1	1466.8
20°	1602.8	1606.6	1604.2	1596.3	1618.2	1725.9	1870.8	1934.0	2085.4	1907.5	1508.1
22.5°	1717.6	1712.0	1705.0	1675.8	1674.4	1738.5	1848.5	1914.5	2133.7	1989.7	1535.5
25°	1859.7	1848.1	1838.3	1797.0	1777.5	1804.0	1868.5	1921.5	2177.4	2069.6	1555.0
27.5°	2014.8	2018.5	1994.4	1938.6	1908.0	1902.4	1930.3	1969.8	2219.6	2141.2	1565.7
30°	2180.6	2182.5	2150.9	2093.3	2065.4	2029.7	2027.8	2051.5	2265.2	2223.4	1575.9
32.5°	2369.7	2374.8	2323.2	2263.3	2214.5	2168.1	2145.3	2165.3	2346.9	2330.7	1596.8
35°	2642.8	2620.5	2550.8	2460.2	2391.0	2330.2	2295.4	2308.4	2455.6	2459.3	1638.6
37.5°	2924.2	2921.9	2844.8	2714.3	2601.0	2525.3	2465.8	2487.2	2608.4	2631.6	1705.5
40°	3186.6	3192.7	3125.8	3012.0	2866.2	2736.1	2672.5	2686.9	2811.4	2840.6	1786.8
42.5°	3358.0	3354.8	3359.9	3327.4	3181.1	3027.8	2932.1	2940.0	3047.3	3062.6	1888.5
45°	3437.0	3424.5	3468.1	3571.2	3513.2	3352.0	3242.8	3233.1	3292.1	3287.9	1980.9
47.5°	3368.7	3345.5	3445.8	3694.3	3806.7	3757.9	3601.9	3584.2	3534.1	3500.6	2077.1
50°	3029.2	3019.0	3233.6	3635.8	3991.1	4133.2	4018.5	3953.0	3750.0	3657.6	2127.7
52.5°	2706.4	2678.1	2823.0	3337.1	3908.9	4435.1	4458.8	4342.2	3929.3	3702.7	2110.5
55°	2186.2	2151.4	2309.3	2741.7	3583.3	4473.7	4768.1	4707.3	4086.3	3646.9	2075.7
57.5°	1327.9	1293.5	1525.7	1963.7	2865.7	4153.2	4692.0	4753.7	4207.1	3585.6	2052.9
60°	558.3	536.4	627.5	937.3	1830.0	3413.3	4287.9	4442.1	4229.8	3501.6	2062.2
62.5°	290.3	280.5	285.6	375.3	739.9	2247.5	3568.9	3837.4	4000.4	3464.4	2071.5
65°	217.8	210.4	194.1	206.2	287.5	971.6	2564.7	2924.2	3502.9	3370.1	2008.8
67.5°	178.8	171.8	160.2	156.5	169.5	337.2	1309.3	1776.6	2744.9	2968.4	1784.0
70°	142.6	140.3	136.6	129.6	127.3	163.5	469.6	724.1	1815.1	2093.3	1293.1
72.5°	118.9	119.4	115.2	109.1	100.8	105.4	187.2	247.6	878.3	1003.7	541.6
75°	99.4	99.4	100.8	92.4	84.1	72.5	104.0	120.8	281.9	231.8	115.7
77.5°	78.0	79.0	85.0	78.0	67.3	45.5	56.7	64.6	83.6	66.9	42.3
80°	62.2	61.3	59.0	70.1	60.4	32.0	26.9	29.7	39.0	32.0	20.9
82.5°	43.7	43.2	41.3	47.4	46.9	23.7	17.6	18.1	23.7	20.4	13.0
85°	10.7	12.5	26.5	22.3	19.5	13.9	10.7	11.6	15.3	13.5	7.0
87.5°	4.6	4.6	12.1	14.4	9.3	6.0	4.6	5.1	7.9	7.9	4.2
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°	1240.6	1240.6	1240.6	1240.6	1240.6	1240.6	1240.6	1240.6	1240.6	1240.6	1240.6
2.5°	1244.7	1214.6	1176.5	1136.1	1094.7	1045.0	1013.4	987.4	967.0	951.2	945.6
5°	1249.4	1191.3	1104.9	997.7	888.5	786.3	707.4	648.8	600.5	574.1	562.5
7.5°	1248.9	1171.8	1015.8	836.0	658.6	511.4	406.9	342.3	299.1	281.5	270.8
10°	1248.5	1146.3	914.1	656.7	440.3	296.3	218.3	182.1	166.3	160.2	159.3
12.5°	1261.9	1117.0	800.3	483.5	276.4	184.4	151.9	143.5	139.8	137.9	137.5
15°	1269.4	1090.1	680.4	341.4	186.2	145.8	135.6	131.9	130.5	129.6	129.1
17.5°	1277.3	1048.3	566.6	247.1	149.1	132.4	126.3	124.0	123.1	123.1	123.1
20°	1278.7	1003.2	453.8	182.1	132.4	123.5	117.5	115.2	113.8	112.9	112.9
22.5°	1268.4	949.8	356.7	147.7	122.6	115.2	108.7	105.0	102.6	102.2	102.2
25°	1242.9	874.1	273.6	129.6	114.7	106.8	98.9	94.7	92.9	92.9	92.9
27.5°	1206.2	784.9	211.3	115.2	104.5	96.6	89.6	85.9	85.5	85.0	85.5
30°	1164.4	699.0	161.6	102.2	92.4	85.9	80.4	78.5	79.4	79.4	79.9
32.5°	1122.6	613.1	126.3	92.0	81.7	76.2	73.4	73.4	74.8	74.8	74.8
35°	1086.8	529.0	105.9	83.6	74.3	69.7	68.3	69.7	70.6	71.1	71.1
37.5°	1066.9	456.6	93.4	76.2	68.3	64.6	64.1	65.5	67.3	68.7	69.2
40°	1059.4	400.8	85.9	70.6	62.7	60.4	59.9	61.8	65.0	67.3	67.8
42.5°	1059.9	351.6	79.4	65.0	59.0	55.7	55.7	58.5	61.8	64.1	64.1
45°	1063.1	309.3	72.9	59.5	55.7	50.2	50.6	54.3	56.7	59.0	59.0
47.5°	1065.9	275.4	66.0	53.4	48.3	45.5	46.4	49.2	52.5	56.2	56.2
50°	1049.7	251.3	59.0	46.9	42.3	41.3	43.2	45.5	50.2	53.9	54.3
52.5°	1010.7	229.4	52.9	41.8	38.1	38.6	40.9	42.3	46.0	46.4	46.9
55°	993.5	218.3	48.3	38.1	34.8	36.2	37.6	38.1	37.2	34.8	34.8
57.5°	989.8	210.9	43.7	34.4	32.0	33.9	33.4	30.7	27.9	25.1	24.6
60°	993.5	200.6	39.9	29.7	29.3	29.7	28.3	23.2	19.5	17.6	16.7
62.5°	972.1	185.8	36.7	25.5	25.5	25.1	21.4	15.8	12.5	11.1	10.7
65°	901.5	156.5	33.4	21.4	20.9	20.0	14.4	10.7	8.4	7.0	6.5
67.5°	762.6	121.2	30.2	17.6	16.7	13.9	9.3	7.0	4.6	4.2	3.7
70°	520.2	75.2	25.5	13.9	12.5	8.8	5.6	4.2	2.8	2.3	1.9
72.5°	188.6	43.7	21.4	10.7	8.4	5.6	3.3	1.9	1.4	1.4	0.9
75°	44.6	30.7	16.3	7.9	5.6	3.3	1.9	1.4	0.9	0.9	0.5
77.5°	20.4	23.7	10.7	4.6	3.7	2.3	1.4	0.9	0.5	0.5	0.0
80°	11.6	16.7	5.1	3.3	2.8	1.9	0.9	0.5	0.5	0.0	0.0
82.5°	6.0	9.3	3.7	2.8	2.3	1.4	0.9	0.0	0.0	0.0	0.0
85°	4.2	4.6	2.8	2.3	1.9	1.4	0.9	0.0	0.0	0.0	0.0
87.5°	3.3	3.3	2.8	2.3	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)