

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: P674462

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

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674462
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1E-830-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ AFL distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

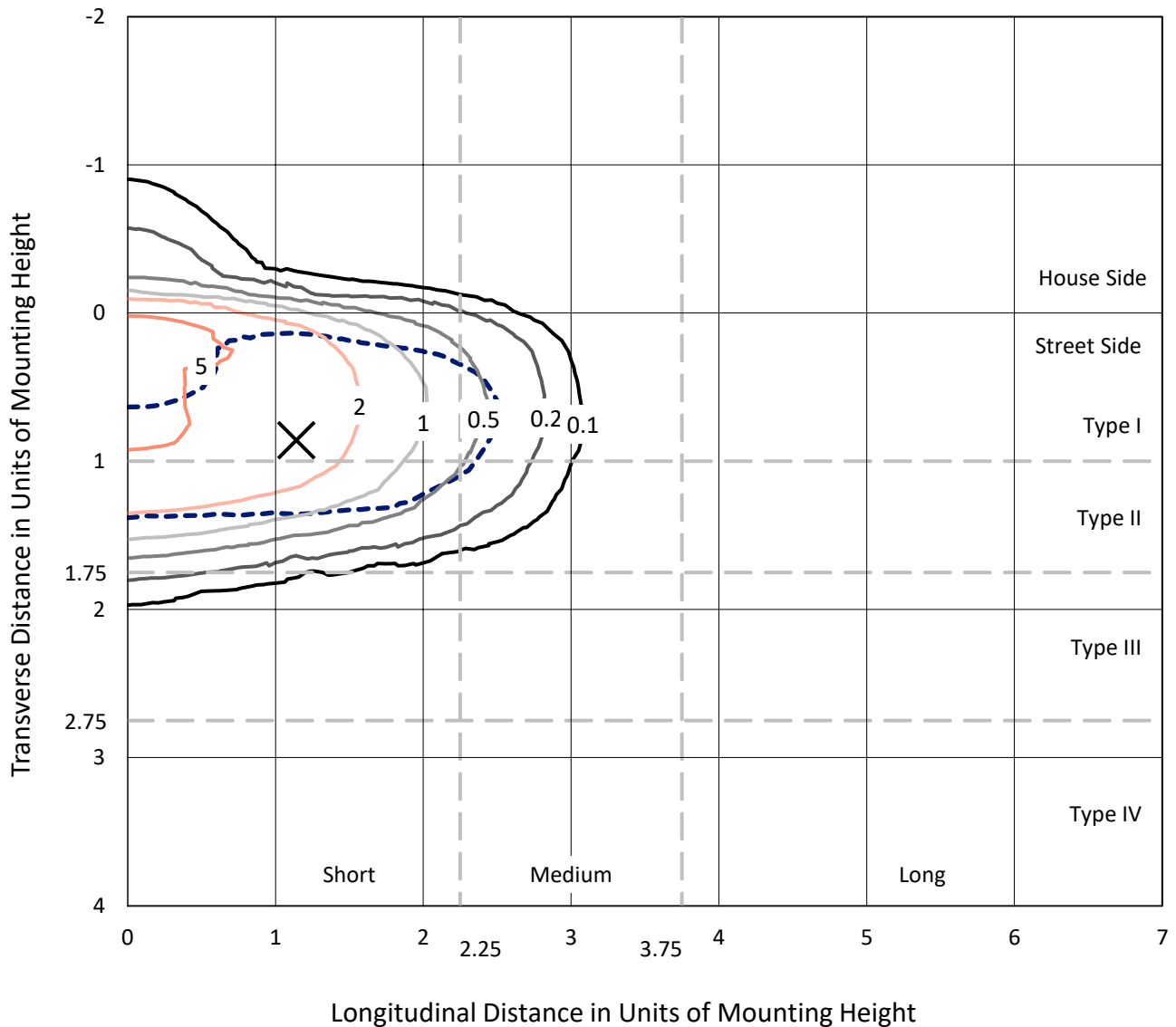
Lumens per Lamp: N/A
Luminaire Lumens: 4505.1 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

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Iso-Footcandle Lines of Horizontal Illumination

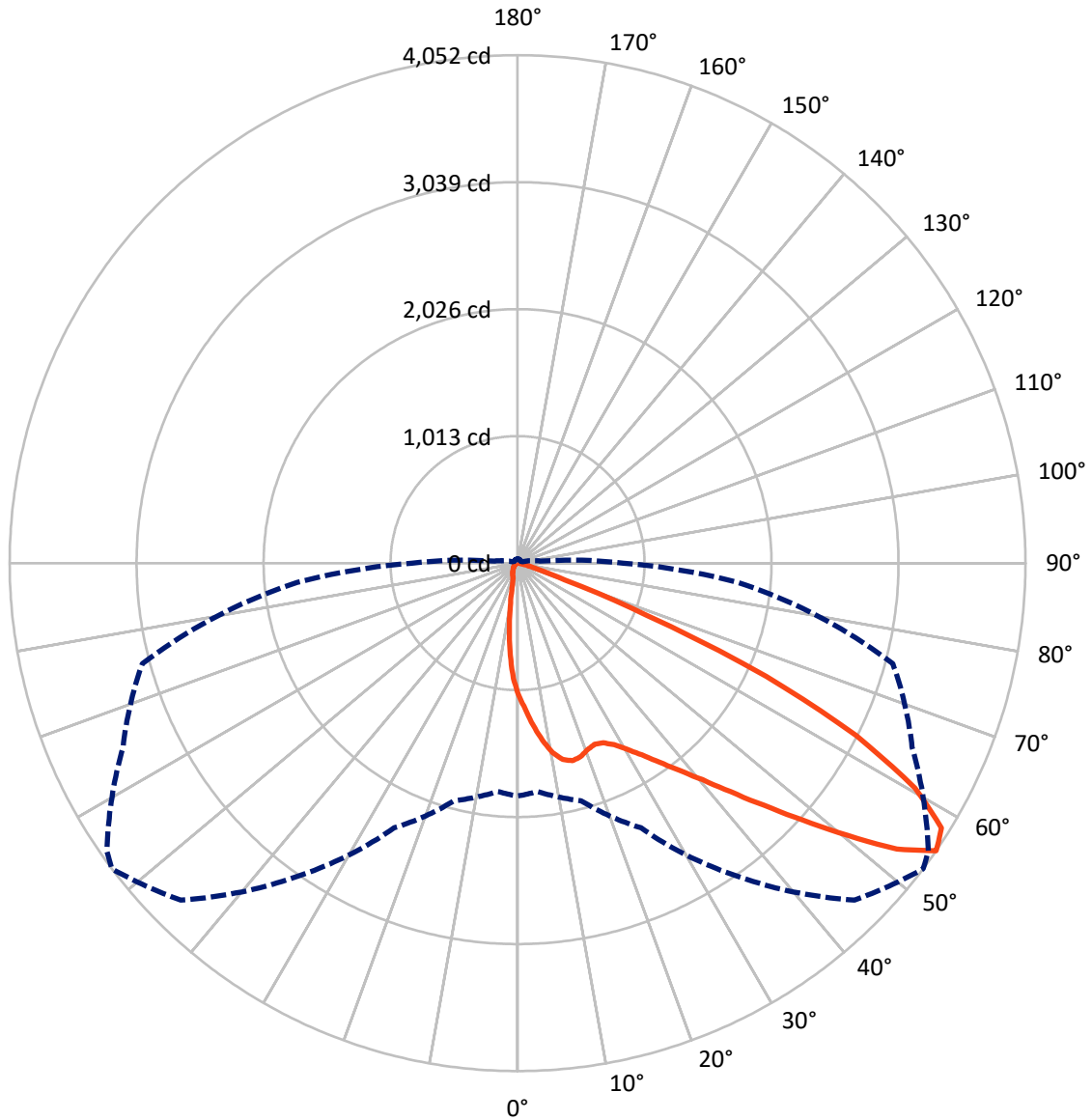
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.8 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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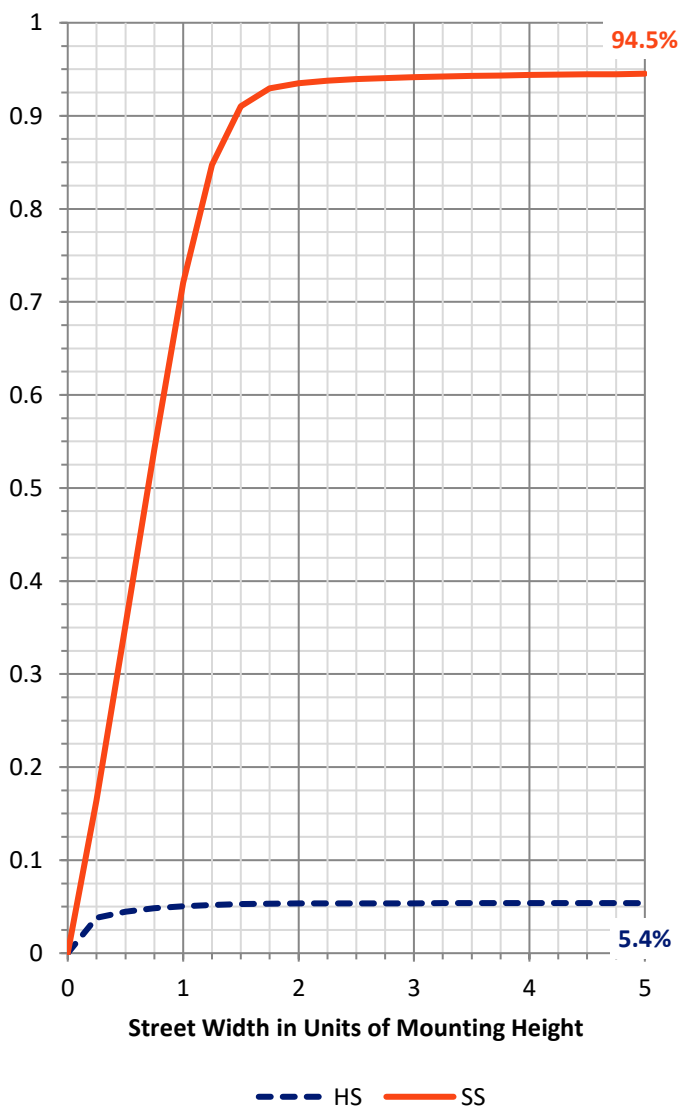
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	243.5	0.0	243.5
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	4261.6	0.0	4261.6
	% Fixture	94.6	0.0	94.6
Total	Lumens	4505.1	0.0	4505.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	2.1
10°-20°	246.3	5.5
20°-30°	412.2	9.2
30°-40°	674.4	15.0
40°-50°	1084.1	24.1
50°-60°	1224.0	27.2
60°-70°	652.9	14.5
70°-80°	107.3	2.4
80°-90°	9.6	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°	4505.1	100.0
0°-180°	4505.1	100.0



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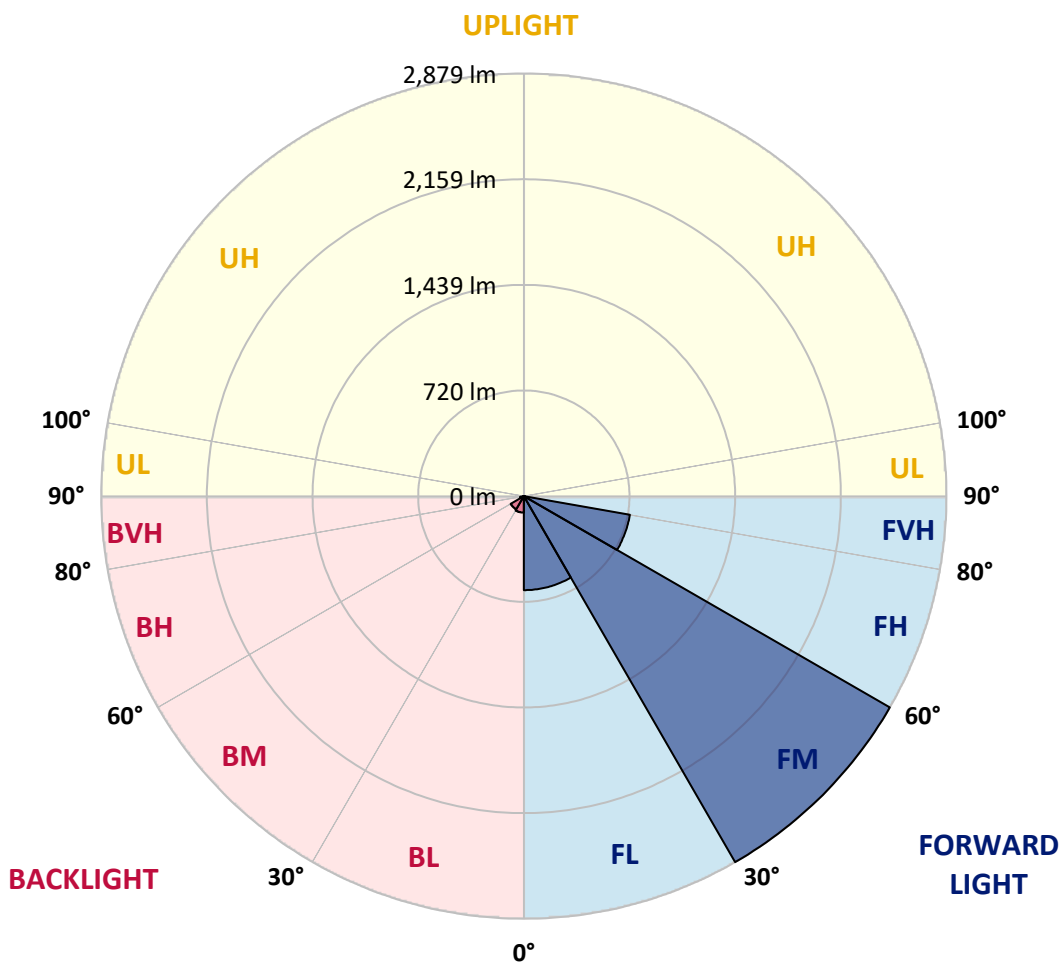
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	640.4	14.2			
FM (30°-60°)	2878.8	63.9			
FH (60°-80°)	733.5	16.3			G1/1800
FVH (80°-90°)	8.8	0.2			G0/10
BL (0°-30°)	112.4	2.5	B1/500		
BM (30°-60°)	103.8	2.3	B0/220		
BH (60°-80°)	26.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3
2.5°	1264.3	1256.8	1261.1	1249.7	1228.8	1202.7	1163.6	1165.6	1134.8	1108.0	1070.9
5°	1473.1	1465.2	1462.8	1433.6	1404.4	1357.4	1299.4	1290.0	1233.5	1165.2	1087.5
7.5°	1583.2	1576.5	1581.6	1571.0	1542.2	1499.5	1426.1	1419.0	1331.8	1228.4	1113.9
10°	1532.7	1530.3	1552.0	1577.3	1600.6	1595.5	1536.7	1525.6	1427.7	1297.8	1141.1
12.5°	1396.9	1404.4	1432.0	1478.6	1550.5	1618.0	1608.5	1610.5	1525.6	1373.2	1171.1
15°	1317.2	1326.3	1342.1	1366.1	1454.5	1574.5	1635.7	1655.5	1619.5	1457.3	1206.7
17.5°	1310.5	1318.0	1320.3	1329.4	1381.1	1504.7	1624.7	1662.2	1703.2	1536.7	1246.5
20°	1362.2	1365.3	1363.4	1356.7	1375.2	1466.8	1589.9	1643.6	1772.3	1621.1	1281.7
22.5°	1459.7	1454.9	1449.0	1424.2	1423.0	1477.4	1571.0	1627.0	1813.4	1691.0	1304.9
25°	1580.5	1570.6	1562.3	1527.2	1510.6	1533.1	1588.0	1633.0	1850.5	1758.9	1321.5
27.5°	1712.3	1715.5	1694.9	1647.6	1621.5	1616.8	1640.5	1674.0	1886.4	1819.7	1330.6
30°	1853.2	1854.8	1828.0	1779.0	1755.3	1724.9	1723.4	1743.5	1925.1	1889.5	1339.3
32.5°	2013.9	2018.2	1974.4	1923.5	1882.0	1842.6	1823.2	1840.2	1994.5	1980.7	1357.1
35°	2246.0	2227.0	2167.8	2090.8	2032.0	1980.3	1950.7	1961.8	2086.9	2090.1	1392.6
37.5°	2485.2	2483.2	2417.7	2306.8	2210.4	2146.1	2095.6	2113.7	2216.8	2236.5	1449.4
40°	2708.2	2713.3	2656.5	2559.8	2435.8	2325.3	2271.2	2283.5	2389.2	2414.1	1518.5
42.5°	2853.8	2851.1	2855.4	2827.8	2703.4	2573.2	2491.9	2498.6	2589.8	2602.8	1604.9
45°	2920.9	2910.3	2947.4	3035.0	2985.7	2848.7	2755.9	2747.7	2797.8	2794.2	1683.5
47.5°	2862.9	2843.2	2928.4	3139.6	3235.1	3193.7	3061.1	3046.1	3003.4	2975.0	1765.2
50°	2574.4	2565.7	2748.1	3089.9	3391.8	3512.6	3415.1	3359.5	3187.0	3108.4	1808.2
52.5°	2300.0	2276.0	2399.1	2836.1	3322.0	3769.2	3789.3	3690.3	3339.3	3146.7	1793.6
55°	1858.0	1828.4	1962.6	2330.0	3045.3	3802.0	4052.2	4000.5	3472.8	3099.4	1764.0
57.5°	1128.5	1099.3	1296.7	1668.9	2435.4	3529.6	3987.5	4040.0	3575.4	3047.3	1744.7
60°	474.5	455.9	533.3	796.5	1555.2	2900.8	3644.1	3775.1	3594.7	2975.8	1752.6
62.5°	246.7	238.4	242.8	318.9	628.8	1910.1	3033.0	3261.2	3399.7	2944.2	1760.5
65°	185.1	178.8	165.0	175.3	244.3	825.8	2179.7	2485.2	2977.0	2864.1	1707.2
67.5°	152.0	146.0	136.2	133.0	144.1	286.6	1112.7	1509.8	2332.8	2522.7	1516.1
70°	121.2	119.2	116.0	110.1	108.2	138.9	399.1	615.4	1542.6	1779.0	1098.9
72.5°	101.0	101.4	97.9	92.8	85.7	89.6	159.1	210.4	746.4	853.0	460.2
75°	84.5	84.5	85.7	78.5	71.4	61.6	88.4	102.6	239.6	197.0	98.3
77.5°	66.3	67.1	72.2	66.3	57.2	38.7	48.2	54.9	71.0	56.8	35.9
80°	52.9	52.1	50.1	59.6	51.3	27.2	22.9	25.3	33.2	27.2	17.8
82.5°	37.1	36.7	35.1	40.3	39.9	20.1	15.0	15.4	20.1	17.4	11.1
85°	9.1	10.7	22.5	18.9	16.6	11.8	9.1	9.9	13.0	11.4	5.9
87.5°	3.9	3.9	10.3	12.2	7.9	5.1	3.9	4.3	6.7	6.7	3.6
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°	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3
2.5°	1057.9	1032.2	999.8	965.5	930.4	888.1	861.3	839.2	821.8	808.4	803.7
5°	1061.8	1012.5	939.0	847.9	755.1	668.3	601.2	551.4	510.4	487.9	478.0
7.5°	1061.4	995.9	863.3	710.5	559.7	434.6	345.8	290.9	254.2	239.2	230.1
10°	1061.0	974.2	776.8	558.1	374.2	251.8	185.5	154.7	141.3	136.2	135.4
12.5°	1072.5	949.3	680.1	410.9	234.9	156.7	129.1	122.0	118.8	117.2	116.8
15°	1078.8	926.4	578.3	290.1	158.3	123.9	115.3	112.1	110.9	110.1	109.7
17.5°	1085.5	890.9	481.6	210.0	126.7	112.5	107.4	105.4	104.6	104.6	104.6
20°	1086.7	852.6	385.6	154.7	112.5	105.0	99.9	97.9	96.7	95.9	95.9
22.5°	1078.0	807.2	303.1	125.5	104.2	97.9	92.4	89.2	87.2	86.8	86.8
25°	1056.3	742.9	232.5	110.1	97.5	90.8	84.1	80.5	78.9	78.9	78.9
27.5°	1025.1	667.1	179.6	97.9	88.8	82.1	76.2	73.0	72.6	72.2	72.6
30°	989.6	594.1	137.4	86.8	78.5	73.0	68.3	66.7	67.5	67.5	67.9
32.5°	954.0	521.0	107.4	78.2	69.5	64.7	62.4	62.4	63.6	63.6	63.6
35°	923.6	449.6	90.0	71.0	63.2	59.2	58.0	59.2	60.0	60.4	60.4
37.5°	906.7	388.0	79.3	64.7	58.0	54.9	54.5	55.7	57.2	58.4	58.8
40°	900.4	340.6	73.0	60.0	53.3	51.3	50.9	52.5	55.3	57.2	57.6
42.5°	900.8	298.8	67.5	55.3	50.1	47.4	47.4	49.7	52.5	54.5	54.5
45°	903.5	262.9	62.0	50.5	47.4	42.6	43.0	46.2	48.2	50.1	50.1
47.5°	905.9	234.1	56.1	45.4	41.1	38.7	39.5	41.8	44.6	47.8	47.8
50°	892.1	213.5	50.1	39.9	35.9	35.1	36.7	38.7	42.6	45.8	46.2
52.5°	858.9	195.0	45.0	35.5	32.4	32.8	34.7	35.9	39.1	39.5	39.9
55°	844.3	185.5	41.1	32.4	29.6	30.8	32.0	32.4	31.6	29.6	29.6
57.5°	841.2	179.2	37.1	29.2	27.2	28.8	28.4	26.1	23.7	21.3	20.9
60°	844.3	170.5	33.9	25.3	24.9	25.3	24.1	19.7	16.6	15.0	14.2
62.5°	826.2	157.9	31.2	21.7	21.7	21.3	18.2	13.4	10.7	9.5	9.1
65°	766.2	133.0	28.4	18.2	17.8	17.0	12.2	9.1	7.1	5.9	5.5
67.5°	648.1	103.0	25.7	15.0	14.2	11.8	7.9	5.9	3.9	3.6	3.2
70°	442.1	63.9	21.7	11.8	10.7	7.5	4.7	3.6	2.4	2.0	1.6
72.5°	160.3	37.1	18.2	9.1	7.1	4.7	2.8	1.6	1.2	1.2	0.8
75°	37.9	26.1	13.8	6.7	4.7	2.8	1.6	1.2	0.8	0.8	0.4
77.5°	17.4	20.1	9.1	3.9	3.2	2.0	1.2	0.8	0.4	0.4	0.0
80°	9.9	14.2	4.3	2.8	2.4	1.6	0.8	0.4	0.4	0.0	0.0
82.5°	5.1	7.9	3.2	2.4	2.0	1.2	0.8	0.0	0.0	0.0	0.0
85°	3.6	3.9	2.4	2.0	1.6	1.2	0.8	0.0	0.0	0.0	0.0
87.5°	2.8	2.8	2.4	2.0	1.6	1.2	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)