

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: P674465

Luminaire Tested: **CCP-SA-2B-830-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674465
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-830-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ AFL distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

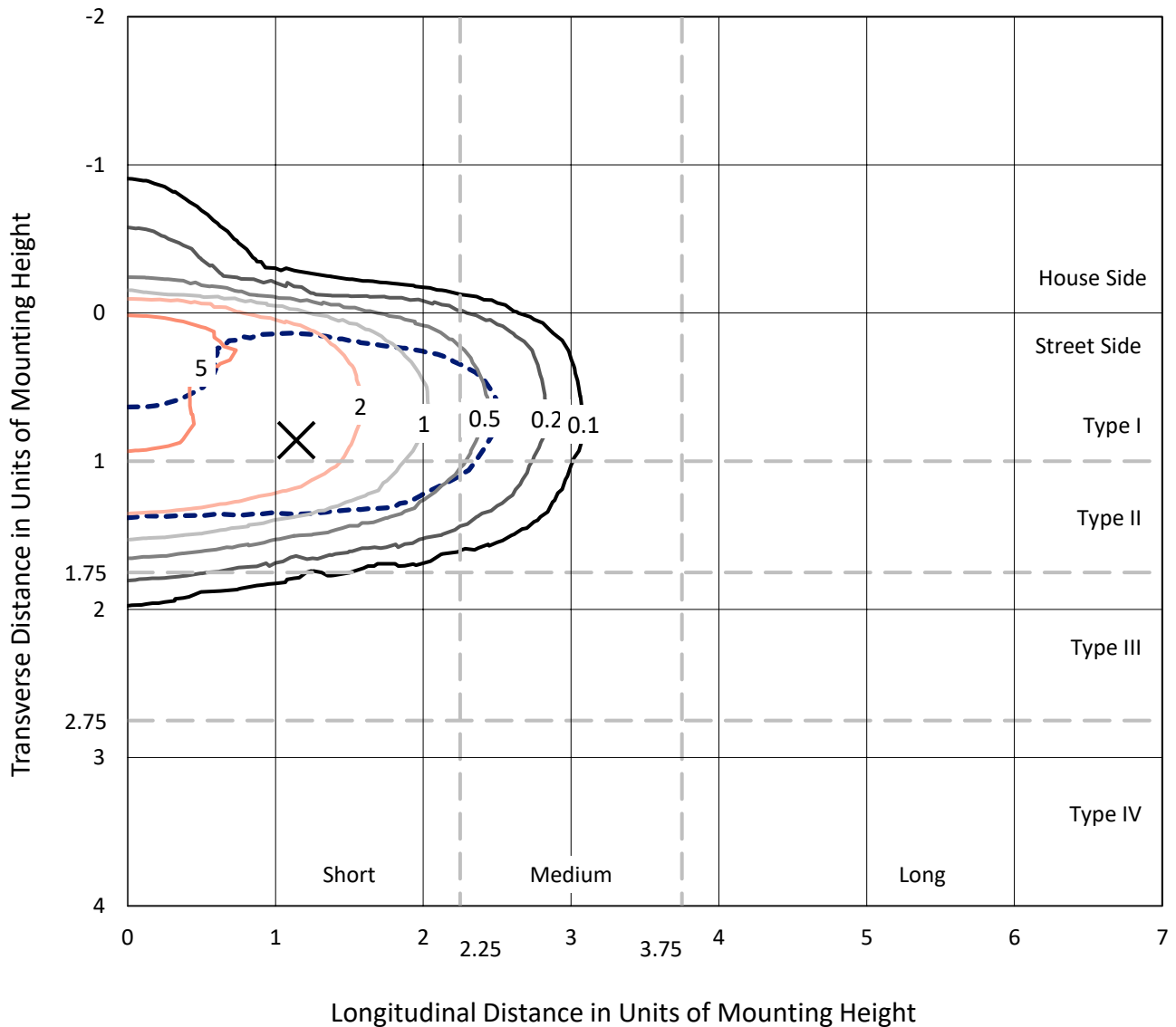
Lumens per Lamp: N/A
Luminaire Lumens: 4550.7 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
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: P674465
 CATALOG NUMBER: CCP-SA-2B-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

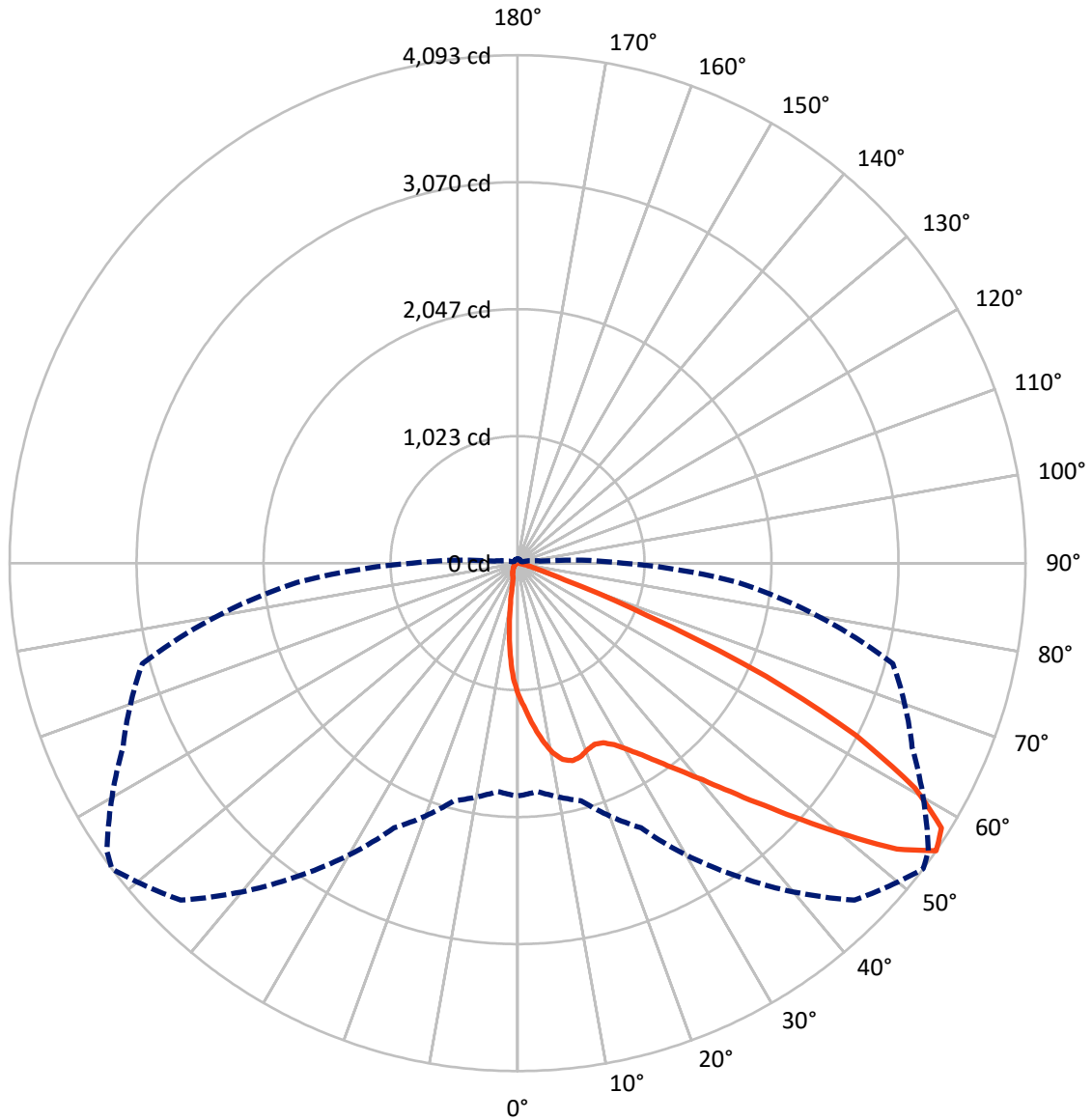
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

REPORT NUMBER: P674465
CATALOG NUMBER: CCP-SA-2B-830-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P674465

CATALOG NUMBER: CCP-SA-2B-830-U-AFL-HSS

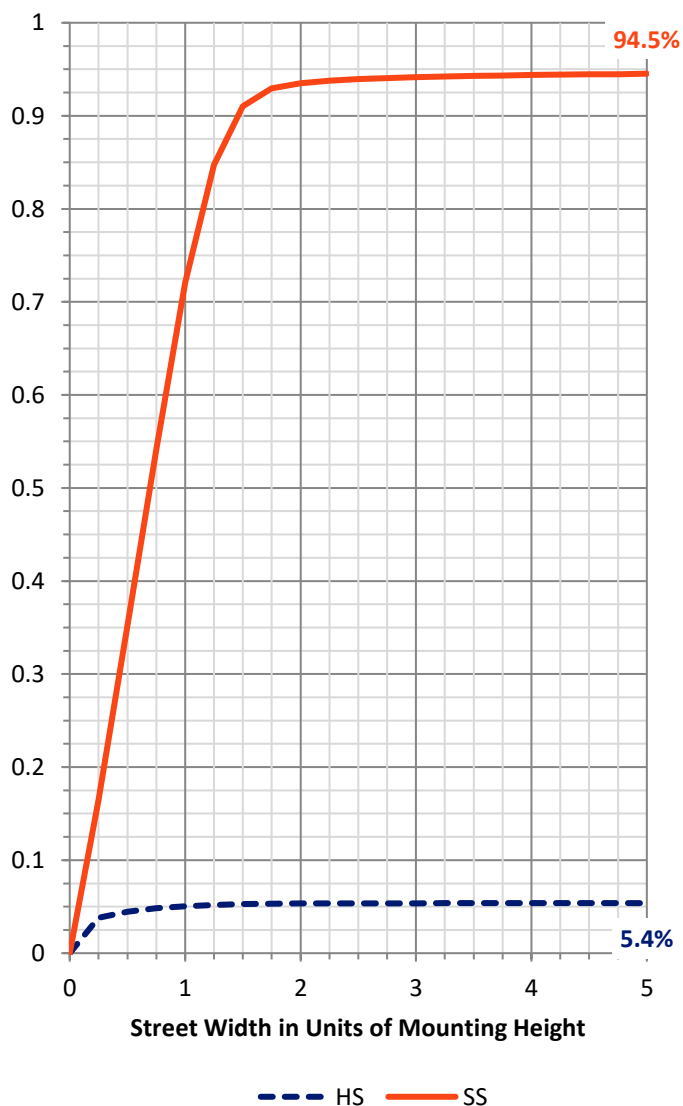
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	246.0	0.0	246.0
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	4304.7	0.0	4304.7
	% Fixture	94.6	0.0	94.6
Total	Lumens	4550.7	0.0	4550.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	2.1
10°-20°	248.8	5.5
20°-30°	416.4	9.2
30°-40°	681.3	15.0
40°-50°	1095.1	24.1
50°-60°	1236.4	27.2
60°-70°	659.5	14.5
70°-80°	108.4	2.4
80°-90°	9.7	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°	4550.7	100.0
0°-180°	4550.7	100.0



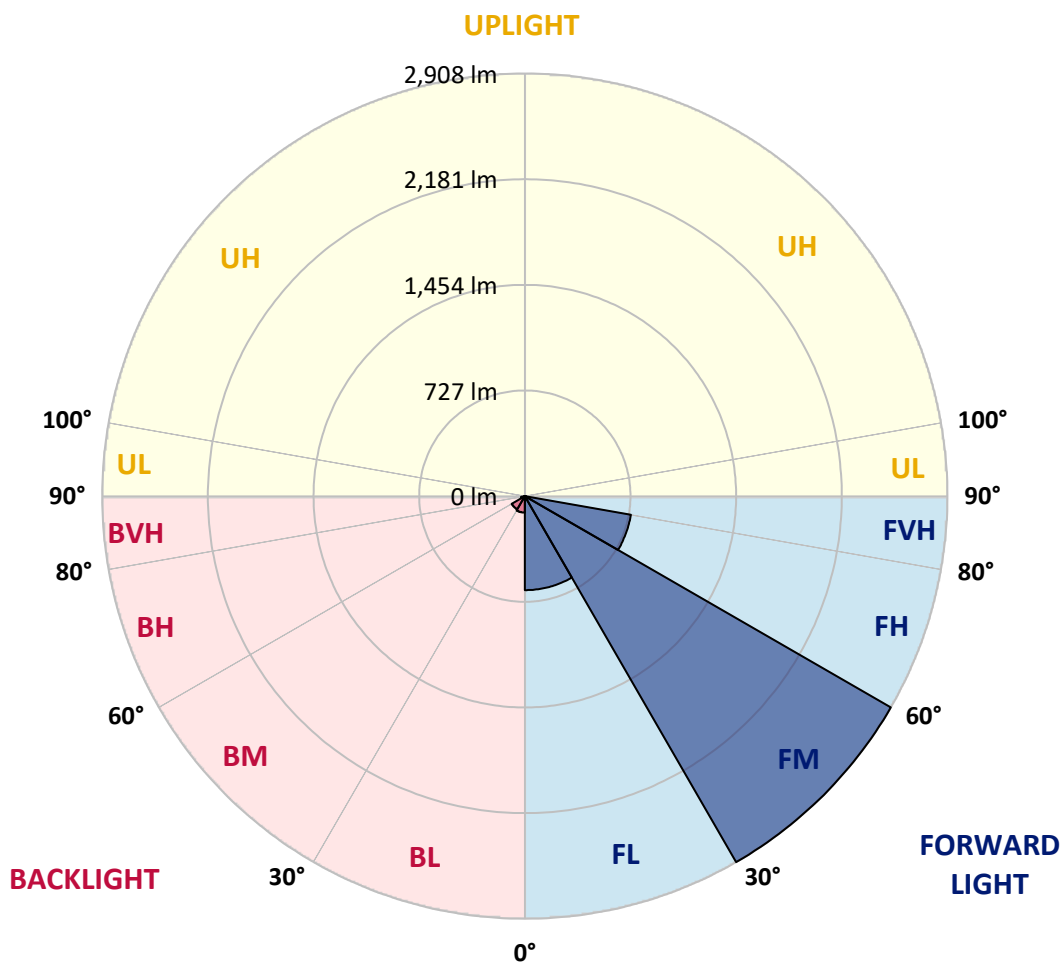
REPORT NUMBER: P674465
 CATALOG NUMBER: CCP-SA-2B-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	646.9	14.2			
FM (30°-60°)	2907.9	63.9			
FH (60°-80°)	741.0	16.3			G1/1800
FVH (80°-90°)	8.9	0.2			G0/10
BL (0°-30°)	113.5	2.5	B1/500		
BM (30°-60°)	104.8	2.3	B0/220		
BH (60°-80°)	26.9	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: P674465

CATALOG NUMBER: CCP-SA-2B-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0
2.5°	1277.1	1269.5	1273.9	1262.3	1241.2	1214.9	1175.4	1177.4	1146.3	1119.2	1081.7
5°	1488.0	1480.0	1477.6	1448.1	1418.6	1371.2	1312.6	1303.0	1246.0	1177.0	1098.5
7.5°	1599.2	1592.5	1597.7	1586.9	1557.8	1514.7	1440.6	1433.4	1345.3	1240.8	1125.2
10°	1548.2	1545.8	1567.7	1593.3	1616.8	1611.6	1552.2	1541.0	1442.2	1311.0	1152.7
12.5°	1411.1	1418.6	1446.5	1493.6	1566.2	1634.3	1624.8	1626.8	1541.0	1387.1	1183.0
15°	1330.5	1339.7	1355.6	1380.0	1469.3	1590.5	1652.3	1672.2	1635.9	1472.1	1218.9
17.5°	1323.7	1331.3	1333.7	1342.9	1395.1	1519.9	1641.1	1679.0	1720.5	1552.2	1259.1
20°	1376.0	1379.2	1377.2	1370.4	1389.1	1481.6	1606.0	1660.2	1790.2	1637.5	1294.6
22.5°	1474.4	1469.7	1463.7	1438.6	1437.4	1492.4	1586.9	1643.5	1831.7	1708.1	1318.2
25°	1596.5	1586.5	1578.1	1542.6	1525.9	1548.6	1604.0	1649.5	1869.2	1776.7	1334.9
27.5°	1729.6	1732.8	1712.1	1664.2	1637.9	1633.1	1657.1	1691.0	1905.5	1838.1	1344.1
30°	1872.0	1873.6	1846.4	1797.0	1773.1	1742.4	1740.8	1761.1	1944.5	1908.6	1352.8
32.5°	2034.2	2038.6	1994.4	1942.9	1901.1	1861.2	1841.7	1858.8	2014.7	2000.8	1370.8
35°	2268.7	2249.6	2189.7	2112.0	2052.6	2000.4	1970.5	1981.6	2108.0	2111.2	1406.7
37.5°	2510.3	2508.3	2442.1	2330.1	2232.8	2167.8	2116.8	2135.1	2239.2	2259.1	1464.1
40°	2735.6	2740.8	2683.4	2585.7	2460.5	2348.8	2294.2	2306.6	2413.4	2438.5	1533.9
42.5°	2882.7	2879.9	2884.3	2856.4	2730.8	2599.2	2517.1	2523.9	2616.0	2629.1	1621.2
45°	2950.5	2939.7	2977.2	3065.7	3015.9	2877.5	2783.8	2775.5	2826.1	2822.5	1700.5
47.5°	2891.9	2871.9	2958.1	3171.4	3267.9	3226.0	3092.0	3076.9	3033.8	3005.1	1783.1
50°	2600.4	2591.6	2775.9	3121.1	3426.2	3548.2	3449.7	3393.5	3219.2	3139.9	1826.5
52.5°	2323.3	2299.0	2423.4	2864.8	3355.6	3807.3	3827.7	3727.6	3373.1	3178.6	1811.8
55°	1876.8	1846.8	1982.4	2353.6	3076.1	3840.4	4093.2	4041.0	3507.9	3130.7	1781.9
57.5°	1139.9	1110.4	1309.8	1685.8	2460.1	3565.3	4027.8	4080.8	3611.6	3078.1	1762.3
60°	479.3	460.5	538.7	804.6	1570.9	2930.2	3680.9	3813.3	3631.1	3005.9	1770.3
62.5°	249.2	240.8	245.2	322.2	635.2	1929.4	3063.7	3294.2	3434.1	2974.0	1778.3
65°	187.0	180.6	166.7	177.0	246.8	834.1	2201.7	2510.3	3007.1	2893.1	1724.4
67.5°	153.5	147.5	137.6	134.4	145.5	289.5	1124.0	1525.1	2356.4	2548.2	1531.5
70°	122.4	120.4	117.2	111.2	109.2	140.3	403.1	621.6	1558.2	1797.0	1110.0
72.5°	102.1	102.5	98.9	93.7	86.5	90.5	160.7	212.5	754.0	861.6	464.9
75°	85.3	85.3	86.5	79.3	72.2	62.2	89.3	103.7	242.0	199.0	99.3
77.5°	67.0	67.8	73.0	67.0	57.8	39.1	48.6	55.4	71.8	57.4	36.3
80°	53.4	52.6	50.6	60.2	51.8	27.5	23.1	25.5	33.5	27.5	17.9
82.5°	37.5	37.1	35.5	40.7	40.3	20.3	15.2	15.5	20.3	17.5	11.2
85°	9.2	10.8	22.7	19.1	16.7	12.0	9.2	10.0	13.2	11.6	6.0
87.5°	4.0	4.0	10.4	12.4	8.0	5.2	4.0	4.4	6.8	6.8	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



REPORT NUMBER: P674465
 CATALOG NUMBER: CCP-SA-2B-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0
2.5°	1068.6	1042.6	1009.9	975.3	939.8	897.1	870.0	847.7	830.1	816.6	811.8
5°	1072.5	1022.7	948.5	856.4	762.7	675.0	607.2	557.0	515.5	492.8	482.8
7.5°	1072.1	1006.0	872.0	717.7	565.4	439.0	349.3	293.9	256.8	241.6	232.5
10°	1071.7	984.0	784.7	563.8	378.0	254.4	187.4	156.3	142.7	137.6	136.8
12.5°	1083.3	958.9	687.0	415.1	237.2	158.3	130.4	123.2	120.0	118.4	118.0
15°	1089.7	935.8	584.1	293.1	159.9	125.2	116.4	113.2	112.0	111.2	110.8
17.5°	1096.5	899.9	486.4	212.1	128.0	113.6	108.5	106.5	105.7	105.7	105.7
20°	1097.7	861.2	389.5	156.3	113.6	106.1	100.9	98.9	97.7	96.9	96.9
22.5°	1088.9	815.4	306.2	126.8	105.3	98.9	93.3	90.1	88.1	87.7	87.7
25°	1067.0	750.4	234.8	111.2	98.5	91.7	84.9	81.3	79.7	79.7	79.7
27.5°	1035.5	673.8	181.4	98.9	89.7	82.9	77.0	73.8	73.4	73.0	73.4
30°	999.6	600.1	138.8	87.7	79.3	73.8	69.0	67.4	68.2	68.2	68.6
32.5°	963.7	526.3	108.5	78.9	70.2	65.4	63.0	63.0	64.2	64.2	64.2
35°	933.0	454.1	90.9	71.8	63.8	59.8	58.6	59.8	60.6	61.0	61.0
37.5°	915.8	391.9	80.1	65.4	58.6	55.4	55.0	56.2	57.8	59.0	59.4
40°	909.5	344.1	73.8	60.6	53.8	51.8	51.4	53.0	55.8	57.8	58.2
42.5°	909.9	301.8	68.2	55.8	50.6	47.8	47.8	50.2	53.0	55.0	55.0
45°	912.7	265.5	62.6	51.0	47.8	43.1	43.5	46.6	48.6	50.6	50.6
47.5°	915.1	236.4	56.6	45.9	41.5	39.1	39.9	42.3	45.1	48.2	48.2
50°	901.1	215.7	50.6	40.3	36.3	35.5	37.1	39.1	43.1	46.3	46.6
52.5°	867.6	197.0	45.5	35.9	32.7	33.1	35.1	36.3	39.5	39.9	40.3
55°	852.9	187.4	41.5	32.7	29.9	31.1	32.3	32.7	31.9	29.9	29.9
57.5°	849.7	181.0	37.5	29.5	27.5	29.1	28.7	26.3	23.9	21.5	21.1
60°	852.9	172.2	34.3	25.5	25.1	25.5	24.3	19.9	16.7	15.2	14.4
62.5°	834.5	159.5	31.5	21.9	21.9	21.5	18.3	13.6	10.8	9.6	9.2
65°	773.9	134.4	28.7	18.3	17.9	17.1	12.4	9.2	7.2	6.0	5.6
67.5°	654.7	104.1	25.9	15.2	14.4	12.0	8.0	6.0	4.0	3.6	3.2
70°	446.6	64.6	21.9	12.0	10.8	7.6	4.8	3.6	2.4	2.0	1.6
72.5°	161.9	37.5	18.3	9.2	7.2	4.8	2.8	1.6	1.2	1.2	0.8
75°	38.3	26.3	14.0	6.8	4.8	2.8	1.6	1.2	0.8	0.8	0.4
77.5°	17.5	20.3	9.2	4.0	3.2	2.0	1.2	0.8	0.4	0.4	0.0
80°	10.0	14.4	4.4	2.8	2.4	1.6	0.8	0.4	0.4	0.0	0.0
82.5°	5.2	8.0	3.2	2.4	2.0	1.2	0.8	0.0	0.0	0.0	0.0
85°	3.6	4.0	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)