

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: P674636

Luminaire Tested: **CCP-SA-1B-850-U-T2R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674636
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1B-850-U-T2R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T2R 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: 2440.1 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G0

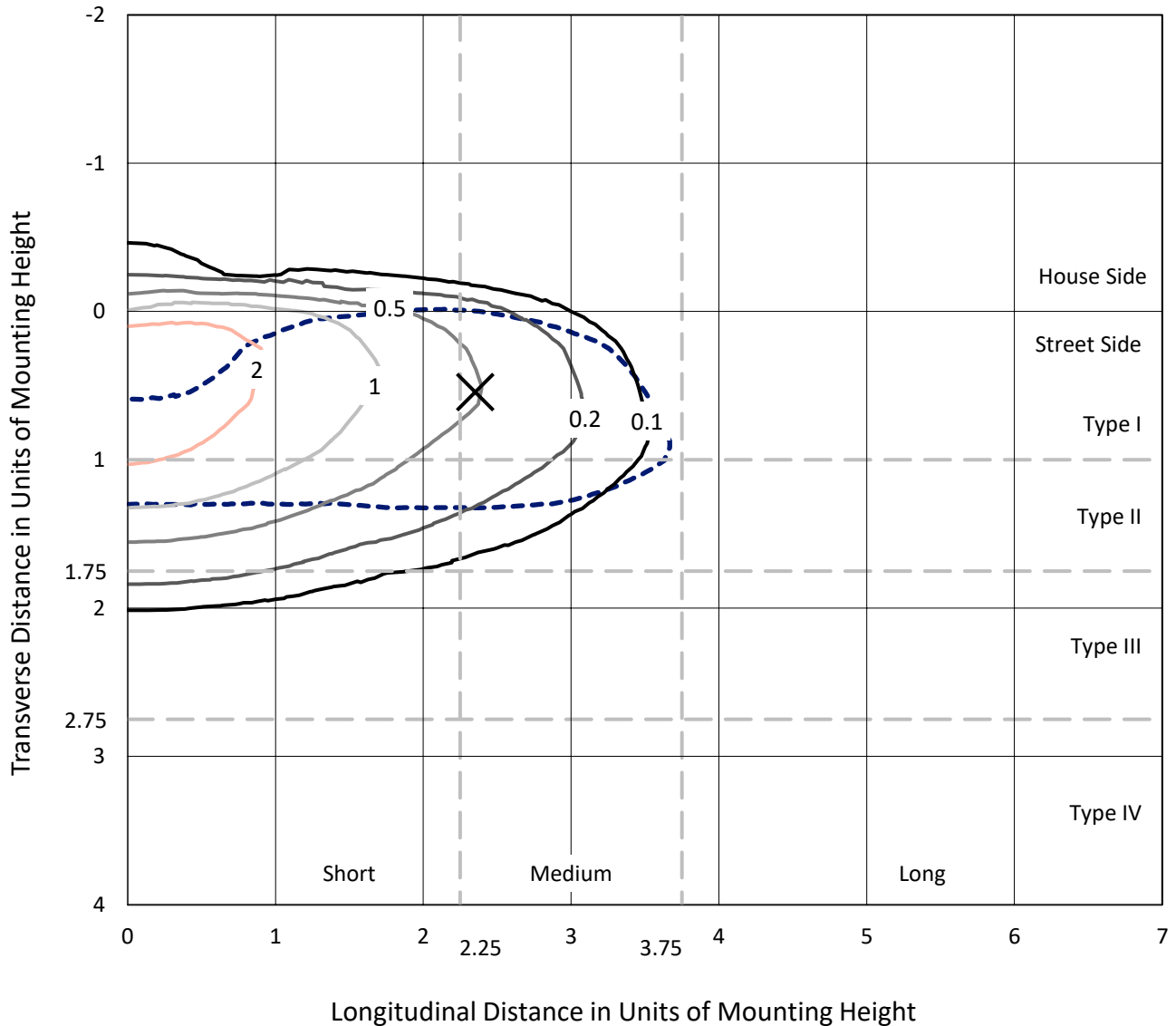
Input Watts (W): 24
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

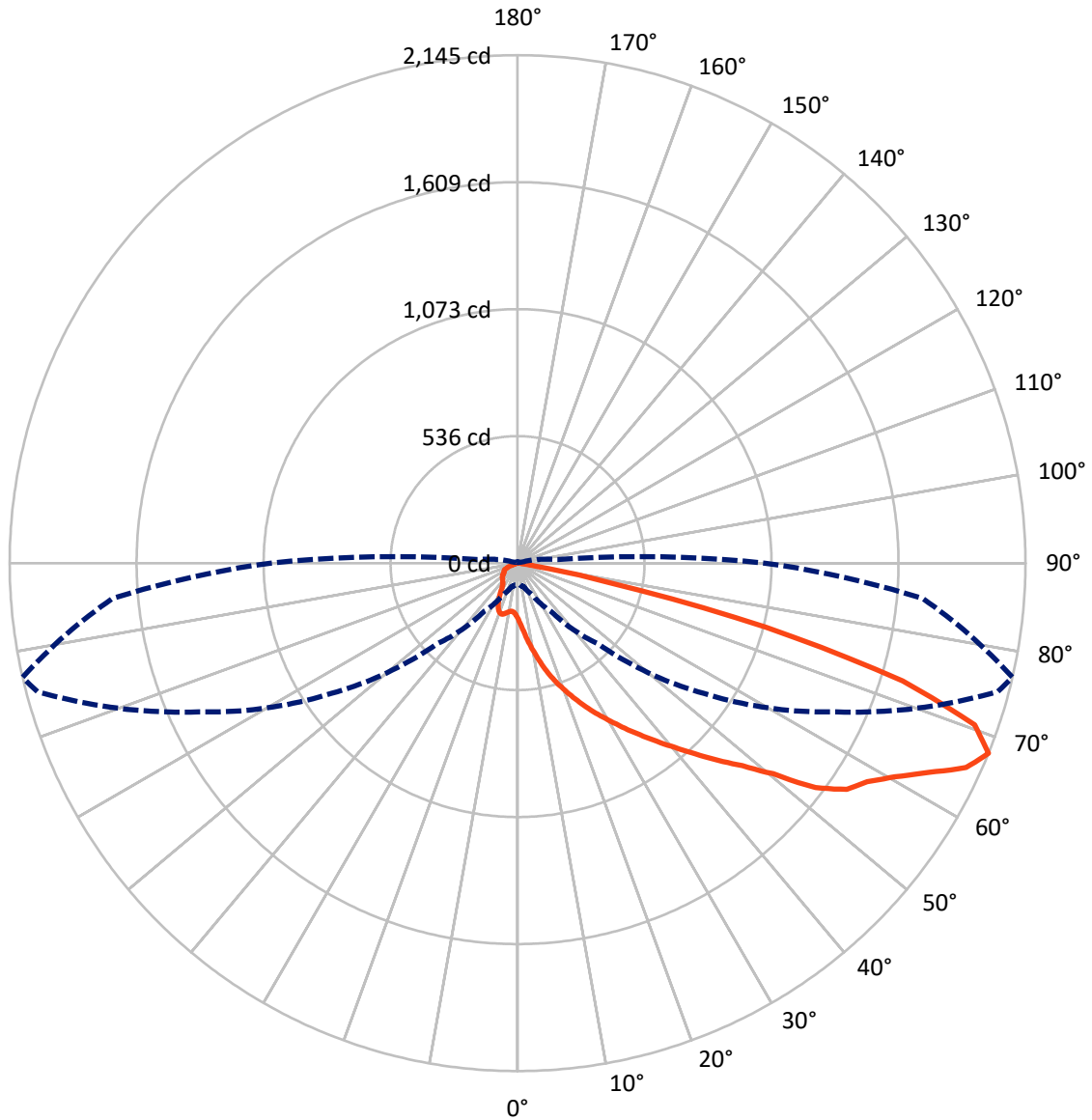
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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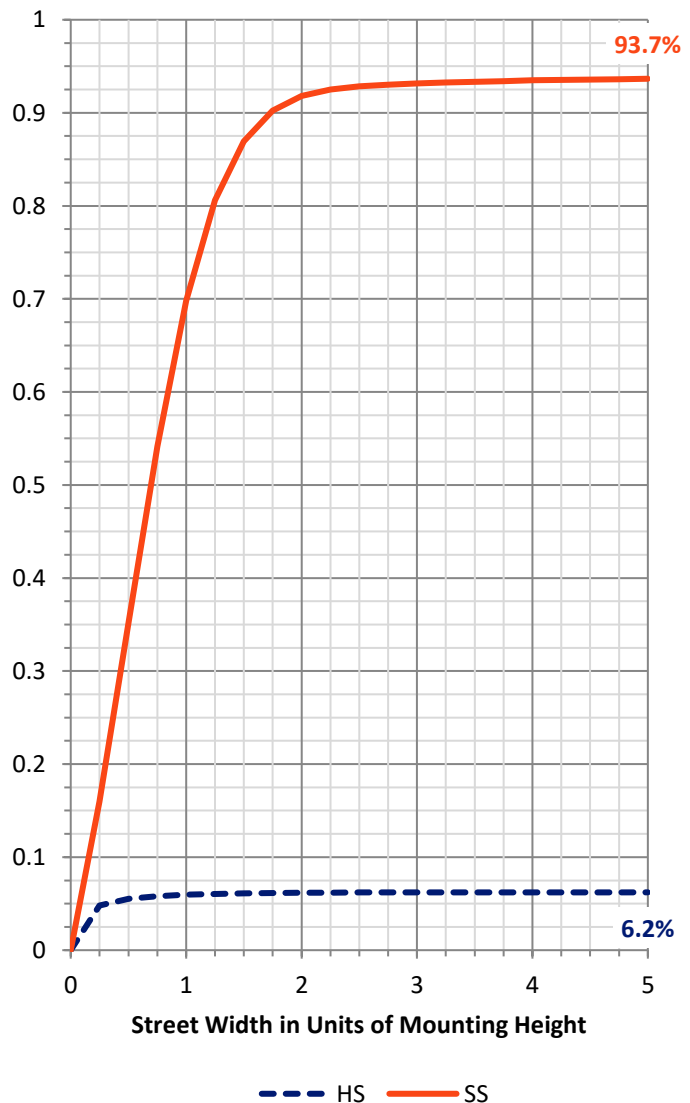
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	152.5	0.0	152.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	2287.7	0.0	2287.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	2440.1	0.0	2440.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.5	1.1
10°-20°	101.6	4.2
20°-30°	198.4	8.1
30°-40°	346.9	14.2
40°-50°	506.0	20.7
50°-60°	591.7	24.2
60°-70°	479.6	19.7
70°-80°	180.2	7.4
80°-90°	8.2	0.3
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°	2440.1	100.0
0°-180°	2440.1	100.0

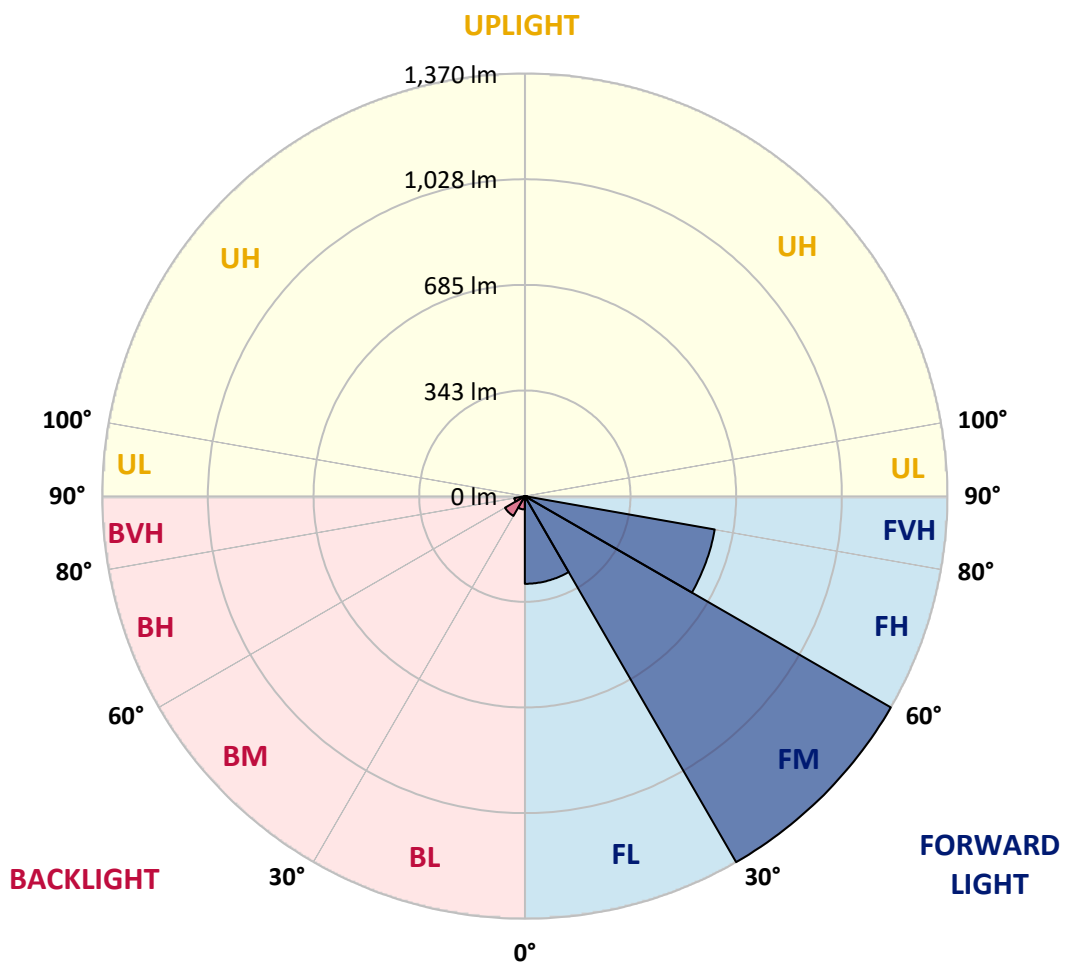


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	284.2	11.6			
FM (30°-60°)	1370.4	56.2			
FH (60°-80°)	625.2	25.6			G0/660
FVH (80°-90°)	7.7	0.3			G0/10
BL (0°-30°)	43.2	1.8	B0/110		
BM (30°-60°)	74.2	3.0	B0/220		
BH (60°-80°)	34.6	1.4	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	233.7	233.7	233.7	233.7	233.7	233.7	233.7	233.7	233.7	233.7	233.7
2.5°	350.9	338.1	340.6	335.3	328.4	312.6	295.8	279.1	264.1	260.8	245.8
5°	449.4	445.4	441.2	437.7	423.4	403.6	373.4	335.0	300.5	294.5	263.5
7.5°	525.8	519.9	523.6	512.8	497.8	478.7	440.3	399.4	346.1	337.3	289.0
10°	582.2	578.9	580.7	575.6	568.3	549.2	511.3	459.9	398.3	381.5	317.6
12.5°	624.5	625.2	632.9	633.3	627.4	611.7	571.6	518.1	445.6	430.7	349.4
15°	655.3	656.0	665.5	675.6	682.4	674.3	637.9	578.0	501.4	480.9	382.6
17.5°	660.4	660.8	677.6	698.1	719.2	726.3	698.3	637.5	552.2	528.9	420.7
20°	663.7	667.5	682.4	706.0	739.5	761.3	746.1	694.5	601.6	574.5	458.2
22.5°	703.8	703.8	712.6	729.4	756.0	790.1	787.1	747.0	649.6	622.7	495.4
25°	788.8	788.8	780.2	775.8	790.1	817.0	824.7	802.9	704.5	672.7	534.6
27.5°	901.4	901.4	888.0	855.6	843.2	854.5	862.6	851.6	755.1	723.8	576.0
30°	1018.1	1022.1	998.8	957.6	914.4	905.8	897.9	895.4	809.1	773.8	618.1
32.5°	1135.3	1134.9	1105.8	1054.5	998.1	967.7	941.9	939.1	866.4	831.8	658.0
35°	1228.9	1229.2	1198.6	1145.9	1080.7	1041.9	1000.5	987.1	929.1	890.6	705.6
37.5°	1310.0	1305.4	1272.3	1222.3	1161.5	1121.5	1069.9	1034.9	994.1	954.9	753.1
40°	1356.5	1350.3	1318.2	1270.6	1224.5	1193.9	1148.5	1092.6	1065.5	1023.2	807.3
42.5°	1363.3	1358.0	1336.7	1308.0	1270.4	1243.5	1231.4	1157.8	1140.4	1102.1	872.1
45°	1344.2	1335.6	1328.5	1313.5	1303.0	1290.0	1306.5	1227.2	1226.3	1188.2	936.2
47.5°	1296.6	1284.9	1286.7	1303.2	1315.1	1326.8	1378.3	1318.2	1312.9	1277.2	1020.3
50°	1215.3	1209.6	1228.9	1261.6	1308.7	1355.4	1449.9	1411.1	1432.0	1398.6	1136.4
52.5°	1050.1	1057.1	1115.1	1193.5	1275.0	1368.8	1517.1	1549.9	1603.4	1575.9	1253.2
55°	851.8	849.2	926.5	1065.7	1195.9	1360.2	1546.4	1631.6	1715.8	1686.9	1318.2
57.5°	686.2	690.8	743.0	880.7	1061.8	1293.9	1553.2	1674.4	1760.9	1741.8	1378.3
60°	515.0	519.4	567.0	686.8	883.3	1155.6	1496.8	1689.3	1845.7	1831.2	1474.3
62.5°	327.8	333.5	381.3	497.8	675.2	940.6	1370.2	1673.7	1934.3	1946.4	1605.4
65°	161.2	166.3	201.6	290.8	451.4	703.4	1193.5	1614.0	2047.1	2081.7	1710.5
67.5°	89.2	91.6	103.8	148.0	251.8	482.4	959.1	1486.5	2098.8	2145.1	1717.5
70°	69.4	70.0	74.7	86.4	122.7	283.1	682.2	1274.1	1991.6	2047.5	1574.6
72.5°	58.4	59.3	61.5	65.4	76.7	147.4	428.7	984.7	1675.7	1701.0	1218.2
75°	42.7	44.1	50.2	53.7	60.6	89.4	189.0	591.7	1107.4	1082.5	681.6
77.5°	35.9	37.0	38.5	43.6	50.0	61.0	66.3	248.0	450.7	391.9	178.9
80°	24.5	25.8	30.0	32.6	42.3	40.3	27.5	66.5	90.5	73.8	34.4
82.5°	17.4	18.5	20.7	26.7	30.6	21.4	15.0	20.3	21.8	20.7	11.2
85°	5.5	7.0	15.0	22.0	16.5	7.3	9.5	7.7	6.8	6.6	4.4
87.5°	1.1	1.1	7.5	8.8	6.6	3.7	3.3	2.4	3.1	3.1	2.4
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°	233.7	233.7	233.7	233.7	233.7	233.7	233.7	233.7	233.7	233.7	233.7
2.5°	238.8	228.9	214.6	201.1	187.5	177.8	170.9	164.1	161.5	160.4	157.5
5°	249.4	230.4	202.0	179.1	162.3	151.8	145.4	139.9	136.4	135.3	133.7
7.5°	264.6	237.2	196.5	170.1	153.3	141.9	131.5	119.6	110.1	106.4	104.9
10°	281.1	247.6	197.4	168.3	146.0	120.9	97.8	78.6	70.3	67.2	65.0
12.5°	305.3	259.1	201.1	166.3	124.2	86.4	62.6	54.6	52.6	52.2	51.8
15°	329.5	275.1	207.3	153.1	92.7	58.8	52.0	49.1	48.0	46.9	46.9
17.5°	354.0	290.6	209.7	127.3	64.1	50.9	47.4	44.9	43.2	42.3	41.6
20°	381.5	306.9	202.7	95.8	51.3	46.5	42.5	39.7	38.1	37.2	36.6
22.5°	411.3	322.9	187.2	66.7	46.7	41.9	38.1	35.2	33.7	32.8	32.6
25°	439.2	336.8	162.6	50.2	42.1	37.4	33.9	31.5	30.4	29.5	29.3
27.5°	468.1	348.7	130.4	44.3	38.3	33.9	30.4	28.4	27.3	26.7	26.4
30°	496.3	356.9	97.1	40.5	35.0	30.6	27.5	26.0	24.9	24.2	24.0
32.5°	525.4	361.5	65.6	37.2	31.7	27.8	25.1	23.6	22.9	22.2	22.2
35°	553.3	360.8	47.4	34.1	29.1	25.1	22.7	21.6	21.4	20.7	20.7
37.5°	584.0	356.2	40.3	31.3	26.2	22.7	20.7	20.0	19.8	19.4	19.2
40°	618.8	345.8	36.8	29.1	23.8	20.7	18.9	18.5	18.3	17.8	17.8
42.5°	656.9	332.4	34.8	26.7	21.8	18.7	17.4	16.7	16.5	16.1	16.1
45°	701.2	319.6	33.5	24.2	20.0	17.2	15.9	15.2	15.0	14.5	14.5
47.5°	761.5	312.4	31.3	22.0	18.1	15.6	14.3	13.9	13.4	13.0	13.0
50°	844.6	303.8	28.4	19.8	16.5	14.1	13.2	12.6	12.3	11.9	11.9
52.5°	912.8	285.5	25.6	17.6	14.8	13.0	12.1	11.7	11.2	11.0	11.0
55°	936.9	264.1	22.7	15.9	13.4	12.1	11.2	10.8	10.6	10.4	10.4
57.5°	975.2	257.3	20.0	14.1	12.1	11.2	10.4	10.1	9.9	9.7	9.5
60°	1040.6	261.3	17.6	12.6	11.0	10.1	9.5	9.3	8.8	8.4	8.4
62.5°	1104.1	256.4	15.0	11.0	9.5	9.0	8.4	7.9	7.0	6.4	5.9
65°	1119.5	224.0	13.0	9.3	7.9	7.5	6.8	5.9	4.6	3.7	3.7
67.5°	1044.8	170.3	11.2	7.9	6.6	6.2	4.8	4.0	2.9	2.2	2.2
70°	862.2	107.9	9.3	6.2	5.5	4.2	3.1	2.9	2.0	1.8	1.5
72.5°	622.1	59.0	7.7	5.1	4.0	2.6	2.2	1.8	1.3	0.9	0.9
75°	315.0	27.8	5.7	4.0	2.6	1.8	1.3	0.9	0.9	0.7	0.7
77.5°	89.2	12.8	3.7	2.6	1.8	1.1	0.9	0.7	0.7	0.4	0.4
80°	17.6	6.4	2.4	1.8	1.3	0.9	0.7	0.4	0.4	0.2	0.2
82.5°	6.4	3.3	1.8	1.3	1.1	0.9	0.4	0.2	0.2	0.0	0.0
85°	3.3	1.8	1.3	1.1	0.9	0.7	0.4	0.2	0.0	0.0	0.0
87.5°	1.8	1.3	1.1	1.1	0.9	0.7	0.4	0.2	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)