

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: P674747

Luminaire Tested: **CCP-SA-1B-830-U-T3R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674747
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1B-830-U-T3R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T3R distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

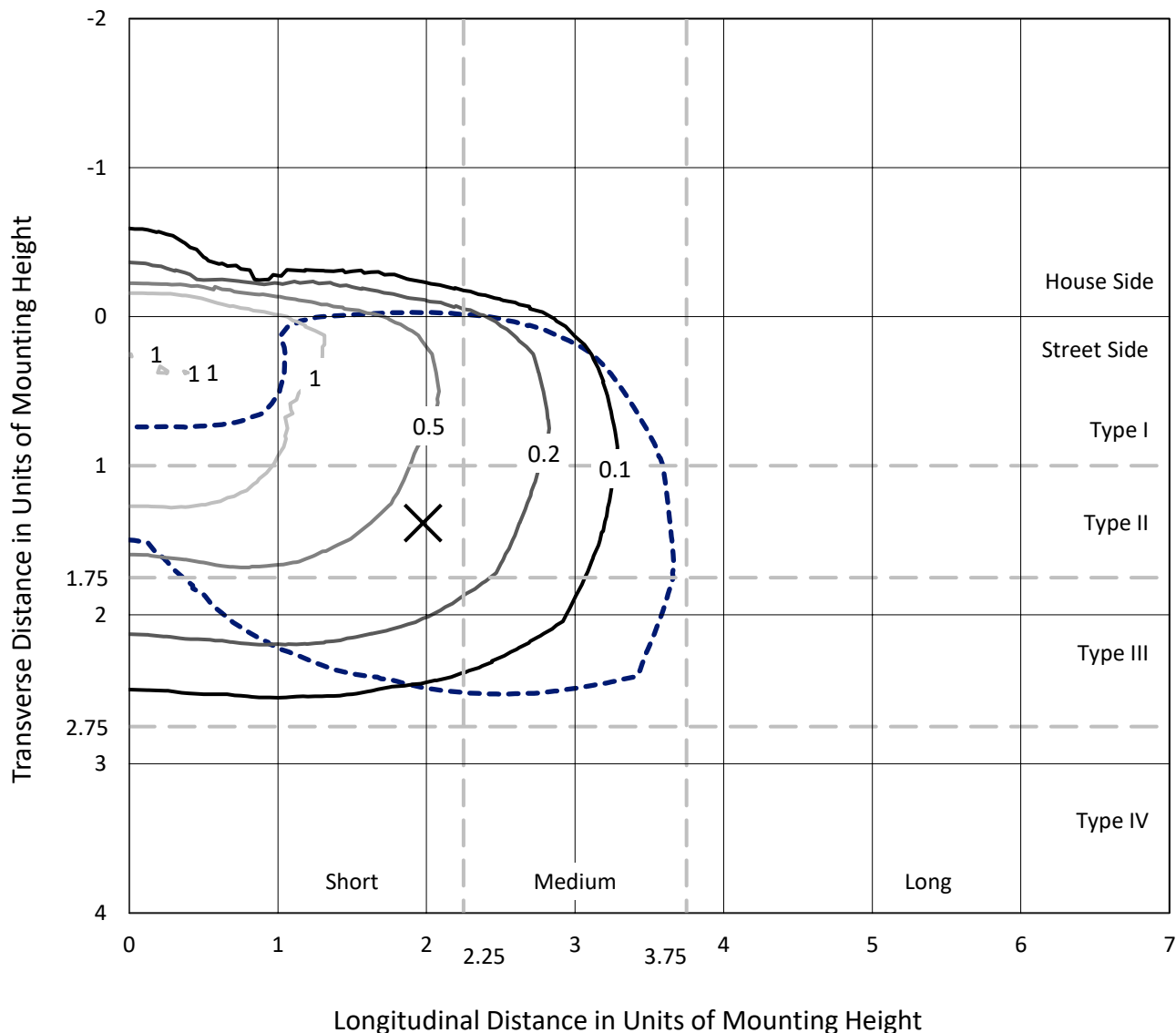
Lumens per Lamp: N/A
Luminaire Lumens: 2176.4 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

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

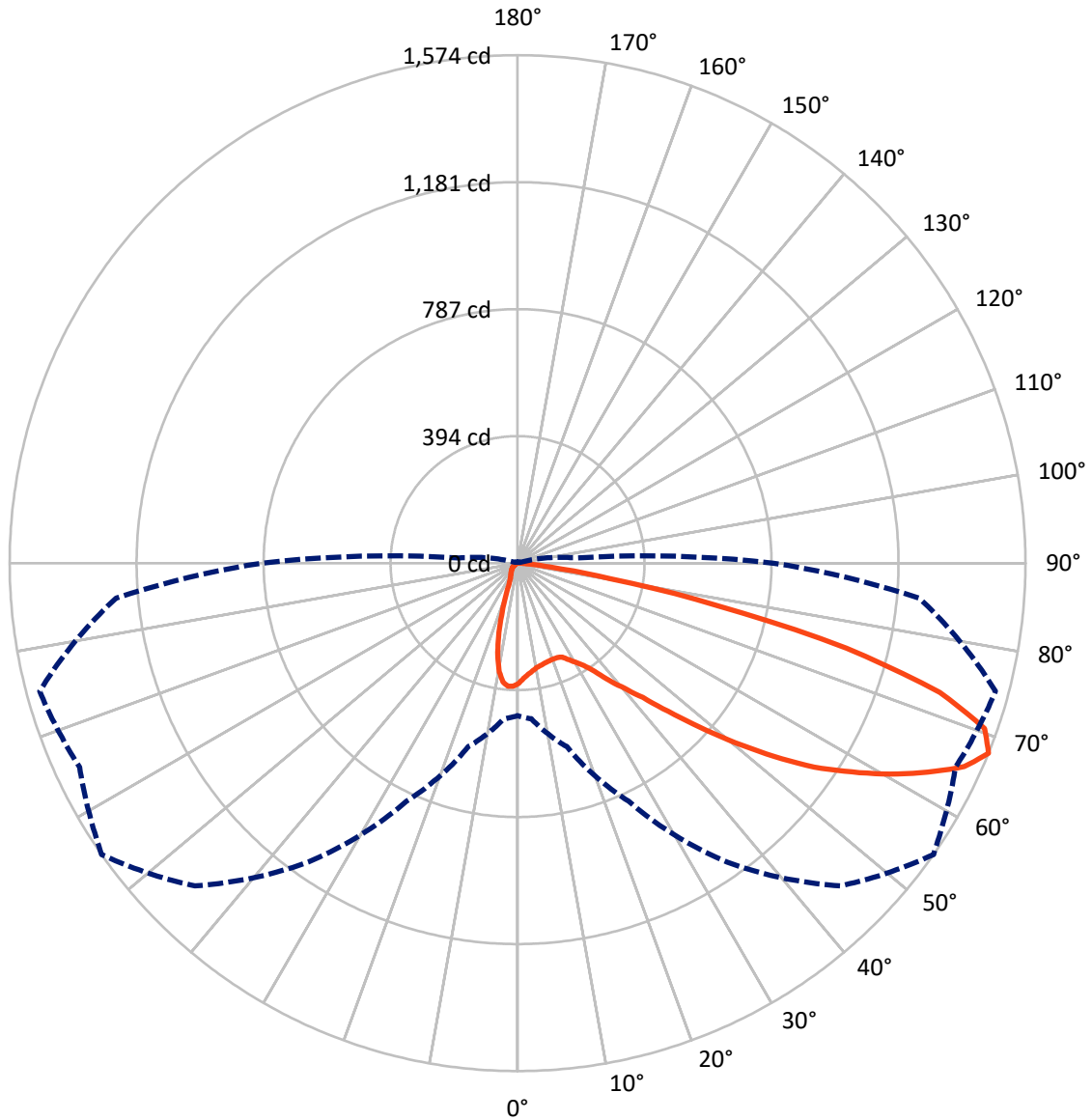
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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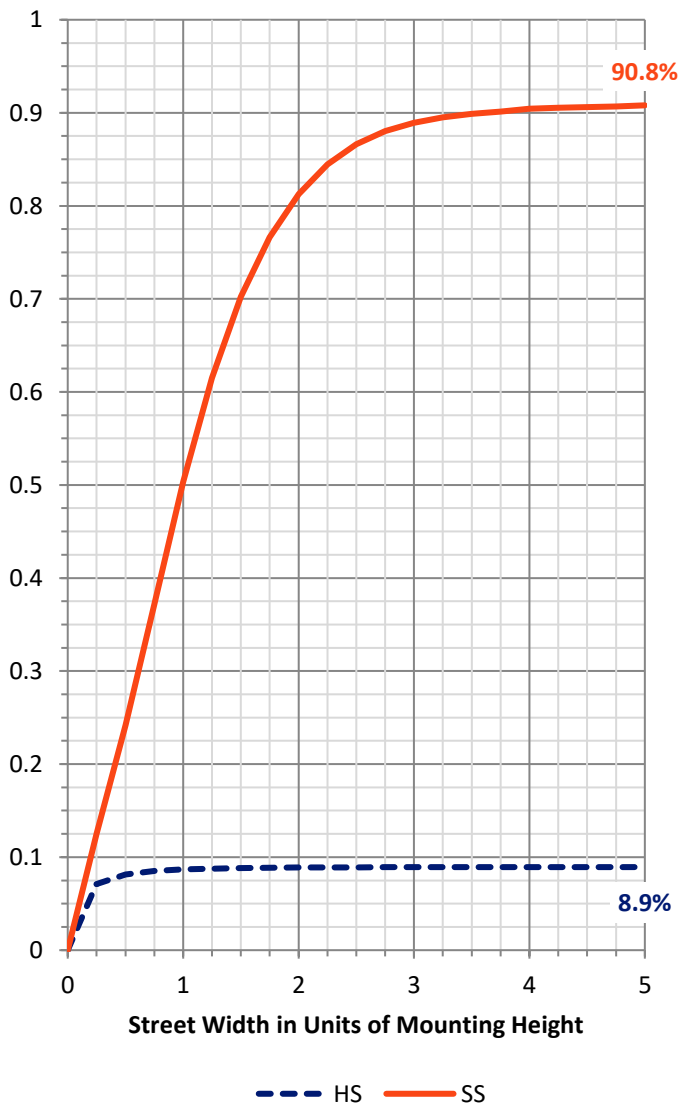
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	195.5	0.0	195.5
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	1980.9	0.0	1980.9
	% Fixture	91.0	0.0	91.0
Total	Lumens	2176.4	0.0	2176.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.7	1.5
10°-20°	74.5	3.4
20°-30°	119.6	5.5
30°-40°	207.4	9.5
40°-50°	345.8	15.9
50°-60°	505.7	23.2
60°-70°	589.6	27.1
70°-80°	286.1	13.1
80°-90°	15.0	0.7
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°	2176.4	100.0
0°-180°	2176.4	100.0



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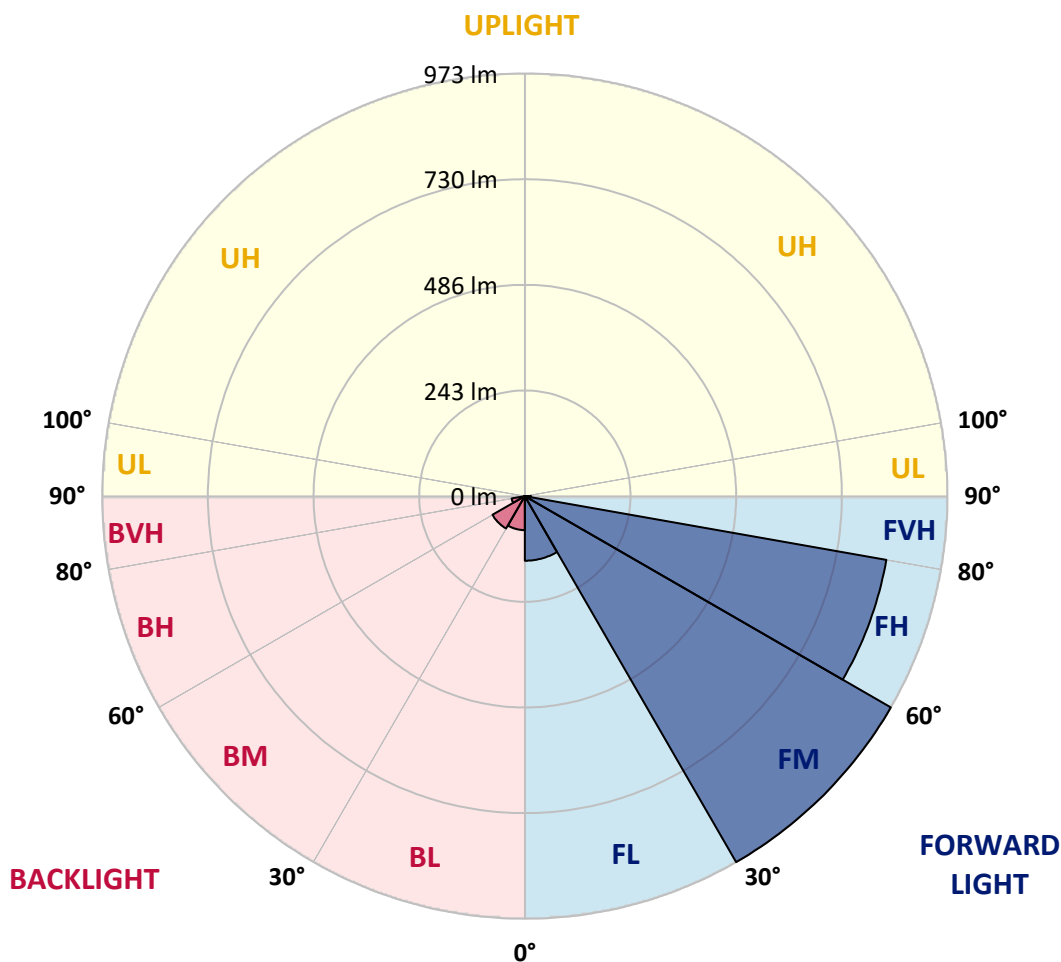
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	148.7	6.8			
FM (30°-60°)	972.8	44.7			
FH (60°-80°)	844.9	38.8			G1/1800
FVH (80°-90°)	14.5	0.7			G1/100
BL (0°-30°)	78.2	3.6	B0/110		
BM (30°-60°)	86.1	4.0	B0/220		
BH (60°-80°)	30.8	1.4	B0/110		G0/110
BVH (80°-90°)	0.4	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0
2.5°	344.3	346.5	349.3	350.3	353.7	358.5	357.1	356.1	361.5	369.0	371.4
5°	322.8	323.0	327.5	330.7	336.5	341.1	346.1	345.7	355.5	368.2	376.2
7.5°	301.8	302.2	306.8	311.8	320.2	329.3	336.9	336.5	352.3	369.2	384.4
10°	274.1	276.1	281.7	290.6	303.8	318.0	328.7	329.7	348.7	373.0	395.6
12.5°	251.9	252.9	259.1	270.5	286.1	304.8	324.7	324.0	349.5	380.0	410.3
15°	242.4	241.8	245.6	254.1	271.9	295.4	320.6	322.0	352.3	388.0	425.5
17.5°	244.6	244.0	246.0	249.1	261.7	287.6	318.4	320.8	356.7	396.4	439.8
20°	269.1	264.9	261.3	258.1	259.9	281.1	317.0	319.6	359.3	402.9	454.8
22.5°	316.2	311.0	301.4	283.5	271.7	281.5	317.4	320.8	365.2	413.3	473.0
25°	393.0	388.0	367.4	330.9	299.6	296.0	322.8	326.5	378.6	429.1	492.5
27.5°	494.7	483.5	458.4	406.1	345.7	319.0	339.1	343.1	397.6	441.4	505.7
30°	579.1	576.5	552.4	488.3	409.3	352.9	357.3	359.5	406.3	448.8	519.0
32.5°	666.7	661.3	639.3	576.9	483.1	401.3	377.8	378.8	417.5	459.8	538.2
35°	742.9	737.9	719.5	658.9	569.3	466.2	411.7	409.5	440.8	484.1	564.3
37.5°	813.5	812.9	796.7	734.9	646.7	533.6	461.6	459.8	477.1	510.7	599.6
40°	882.5	880.9	867.1	810.7	722.9	600.8	509.1	504.5	507.9	548.0	646.1
42.5°	924.8	928.2	933.0	897.4	813.3	679.6	569.3	566.5	565.9	606.4	707.3
45°	947.7	953.7	982.0	978.8	909.2	777.6	654.9	647.7	645.3	686.6	777.2
47.5°	969.9	972.5	1018.9	1038.3	1001.0	879.9	758.4	748.4	738.5	784.5	860.9
50°	971.3	975.6	1032.9	1080.2	1078.0	980.6	874.5	865.7	854.4	903.6	942.5
52.5°	951.7	960.1	1031.1	1106.7	1125.8	1069.4	995.0	987.8	978.6	1015.3	1011.3
55°	815.9	830.2	995.8	1109.1	1159.2	1145.6	1116.1	1106.1	1097.1	1123.1	1078.6
57.5°	751.4	759.4	888.7	1107.3	1202.0	1216.2	1221.2	1216.6	1204.0	1236.4	1149.0
60°	712.7	724.3	837.6	1087.2	1248.1	1296.0	1327.5	1318.3	1302.8	1347.5	1224.4
62.5°	666.3	674.8	786.7	1029.5	1275.5	1377.2	1427.1	1418.7	1386.8	1450.0	1285.4
65°	580.9	593.6	705.6	938.7	1238.6	1436.8	1521.0	1518.2	1462.8	1527.4	1302.0
67.5°	472.8	484.3	588.7	814.1	1130.8	1414.5	1574.1	1565.3	1497.3	1533.2	1249.3
70°	354.9	361.1	440.0	622.0	926.4	1295.6	1535.6	1533.8	1445.0	1447.0	1087.5
72.5°	190.5	207.7	292.6	416.3	651.5	1049.4	1368.6	1361.4	1289.2	1185.1	782.0
75°	66.6	71.6	155.8	233.8	353.9	699.0	1052.4	1035.5	964.1	770.8	426.1
77.5°	40.9	44.9	69.2	119.5	137.8	303.4	632.3	610.4	564.3	333.3	145.6
80°	28.3	31.9	46.3	62.6	46.9	98.3	291.0	282.7	217.6	79.4	33.5
82.5°	15.8	19.0	35.1	30.7	18.8	25.5	100.9	93.4	58.0	21.5	11.2
85°	9.2	11.0	24.7	21.7	9.6	9.0	26.3	23.5	15.0	8.0	5.4
87.5°	4.8	6.2	18.0	14.4	5.8	3.2	6.0	5.8	3.8	2.8	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0
2.5°	375.8	374.8	380.0	381.8	381.4	380.6	382.6	380.0	379.8	379.2	378.6
5°	382.6	384.2	388.4	388.4	382.8	373.6	368.0	360.3	353.9	350.1	349.5
7.5°	392.8	396.0	398.8	390.2	371.0	348.1	323.8	304.8	288.2	279.5	278.7
10°	407.3	410.3	408.1	383.4	342.1	294.8	255.3	215.6	195.7	184.9	184.9
12.5°	424.5	426.9	413.5	366.4	294.6	226.0	173.3	131.5	111.7	98.9	98.1
15°	443.2	443.8	412.7	336.7	235.8	151.8	99.5	73.0	64.6	62.8	62.4
17.5°	459.4	457.0	404.3	292.8	169.8	90.4	63.2	57.1	55.5	55.5	55.5
20°	474.6	466.6	387.4	241.6	108.9	61.6	54.3	52.7	52.7	52.9	52.9
22.5°	491.5	475.6	363.4	184.9	70.0	52.7	50.9	50.1	49.9	50.5	50.3
25°	511.3	484.5	328.9	127.7	54.1	49.1	48.3	47.5	47.5	47.5	47.5
27.5°	522.4	483.3	289.6	80.6	47.3	45.5	44.7	43.9	43.3	43.1	43.3
30°	532.0	476.2	238.2	56.3	42.7	40.7	40.1	39.1	37.9	37.5	37.5
32.5°	544.6	470.4	184.5	45.3	38.7	36.5	34.7	33.1	31.1	30.3	30.1
35°	558.7	459.8	135.2	39.9	35.1	32.3	29.5	26.9	24.3	23.5	23.3
37.5°	576.1	450.2	91.6	36.9	32.1	28.7	24.9	21.3	18.8	18.4	18.4
40°	599.8	442.2	63.4	34.3	29.3	25.3	20.7	16.8	15.2	14.8	14.8
42.5°	632.1	435.5	47.9	32.1	26.9	21.9	16.6	13.8	12.6	12.2	12.2
45°	670.2	425.3	40.5	30.1	24.5	18.4	13.8	11.6	11.0	11.0	11.0
47.5°	713.9	412.5	36.9	28.1	21.9	15.0	11.6	10.6	10.4	10.4	10.6
50°	758.0	397.2	34.3	25.7	18.8	12.8	10.6	10.0	10.0	10.2	10.2
52.5°	787.9	373.4	31.7	23.1	15.8	11.2	10.0	9.8	9.6	9.6	9.6
55°	816.9	352.5	28.1	20.3	13.2	10.4	9.6	9.4	9.4	9.2	9.2
57.5°	847.2	336.1	23.5	16.8	11.2	9.8	9.2	9.2	8.8	8.6	8.6
60°	882.3	321.6	18.0	13.2	9.8	9.2	8.6	8.4	8.0	7.6	7.6
62.5°	892.5	291.2	13.6	10.6	8.4	8.0	7.8	7.4	6.4	5.6	5.8
65°	865.9	243.2	10.8	8.4	6.8	6.8	6.2	5.2	4.2	3.6	3.6
67.5°	792.3	181.7	8.8	6.6	5.4	5.2	4.4	3.8	2.6	2.2	2.2
70°	652.9	120.1	7.2	5.2	4.4	3.6	3.0	2.8	2.0	1.6	1.6
72.5°	457.6	65.2	6.0	4.2	3.2	2.4	2.0	1.8	1.4	1.2	1.0
75°	241.6	25.1	4.8	3.2	2.0	1.6	1.2	1.2	1.0	0.8	0.8
77.5°	82.8	10.6	3.4	1.8	1.4	1.0	0.8	0.6	0.8	0.6	0.6
80°	19.7	6.2	2.2	1.2	0.8	0.6	0.6	0.4	0.4	0.4	0.4
82.5°	8.6	3.6	1.4	0.8	0.8	0.6	0.4	0.2	0.2	0.2	0.2
85°	5.8	2.2	1.0	0.8	0.6	0.4	0.2	0.2	0.0	0.0	0.0
87.5°	4.6	1.4	0.8	0.8	0.6	0.4	0.2	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)