

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: P675455

Luminaire Tested: **CCW-SA-1B-830-U-SL2**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675455  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-830-U-SL2  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
SL2 distribution lens  
Light Source: (16) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

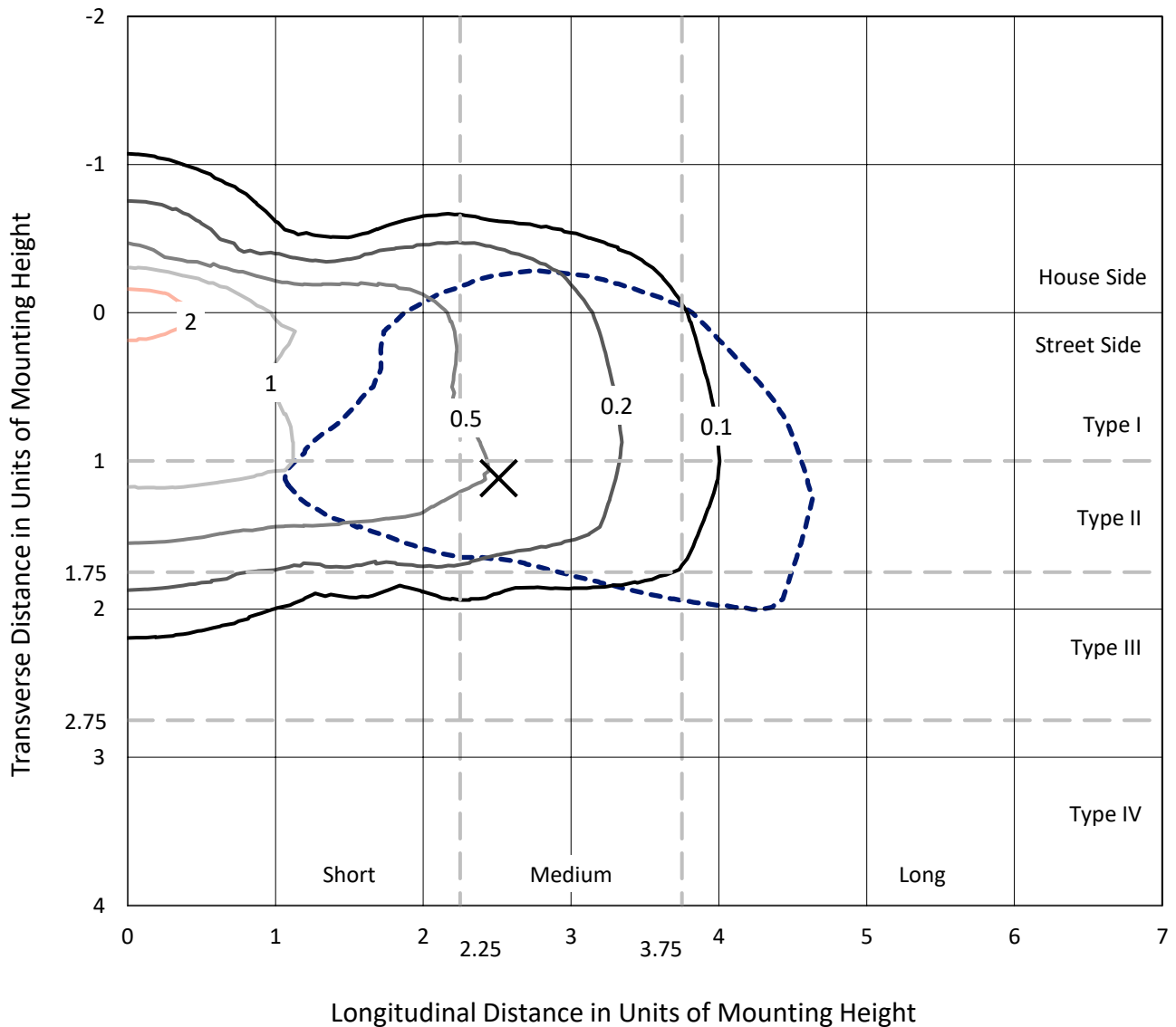
Lumens per Lamp: N/A  
Luminaire Lumens: 2715.9 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

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

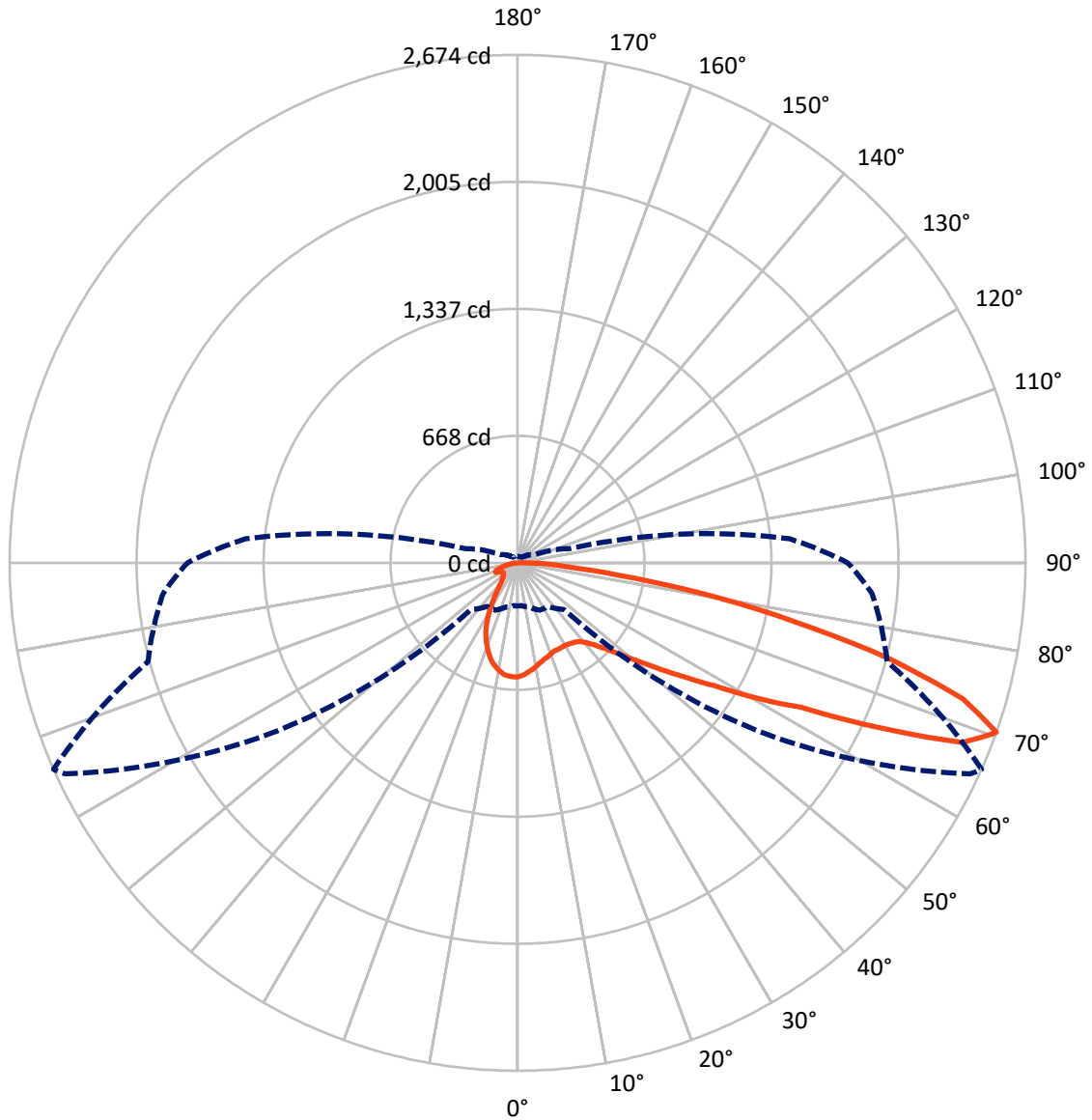
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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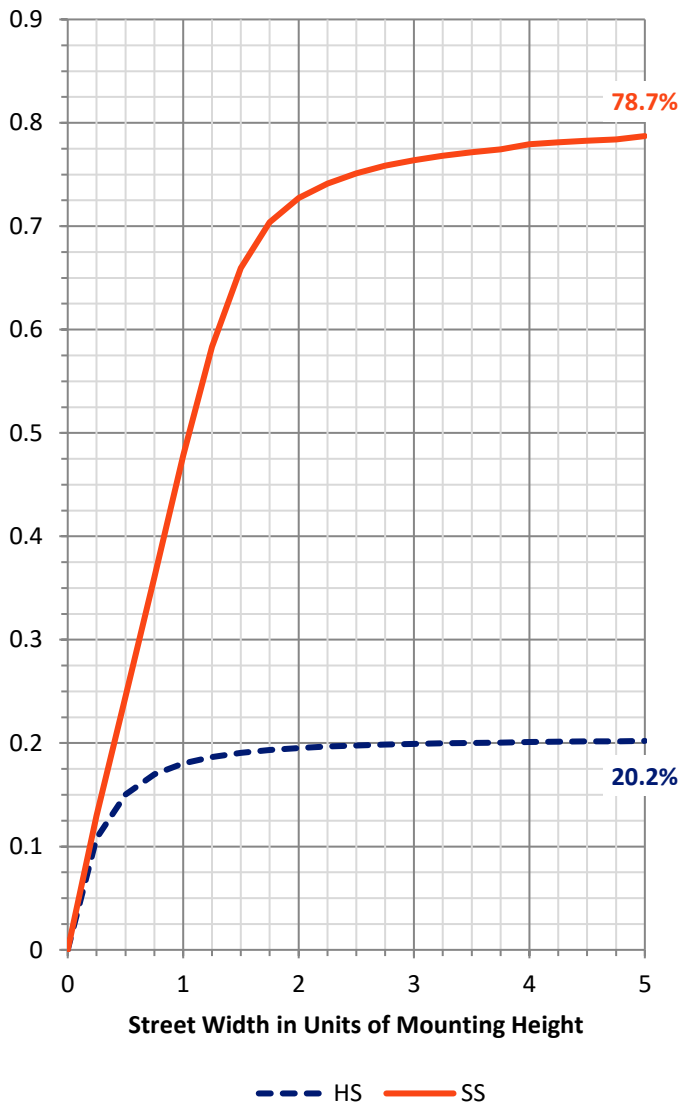
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	555.9	0.0	555.9
	% Fixture	20.5	0.0	20.5
<b>Street Side</b>	Lumens	2160.0	0.0	2160.0
	% Fixture	79.5	0.0	79.5
<b>Total</b>	Lumens	2715.9	0.0	2715.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.1	2.0
10°-20°	130.6	4.8
20°-30°	179.4	6.6
30°-40°	240.5	8.9
40°-50°	348.9	12.8
50°-60°	530.4	19.5
60°-70°	655.1	24.1
70°-80°	487.1	17.9
80°-90°	90.9	3.3
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°	2715.9	100.0
0°-180°	2715.9	100.0

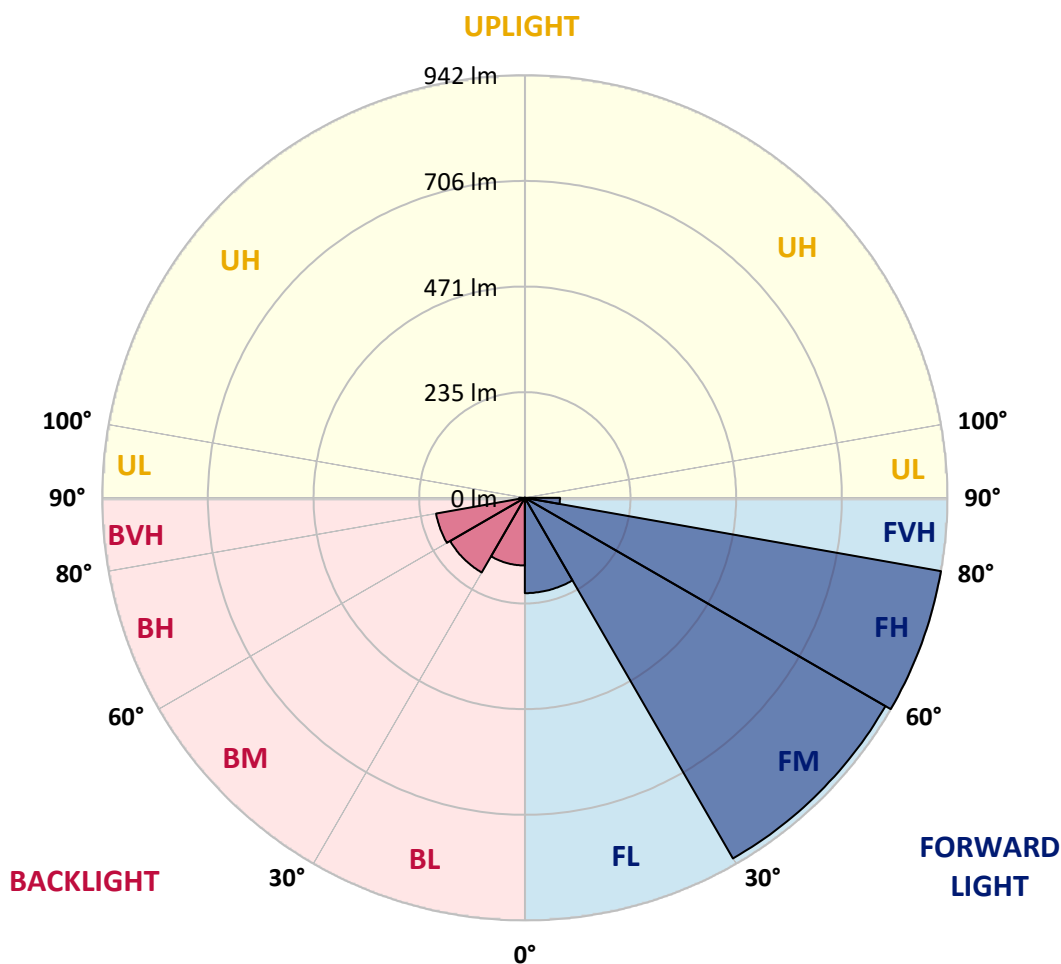


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	212.4	7.8			
FM (30°-60°)	927.8	34.2			
FH (60°-80°)	941.5	34.7			G1/1800
FVH (80°-90°)	78.3	2.9			G1/100
BL (0°-30°)	150.7	5.5	B1/500		
BM (30°-60°)	192.0	7.1	B0/220		
BH (60°-80°)	200.7	7.4	B1/500		G1/500
BVH (80°-90°)	12.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0
2.5°	570.7	573.8	574.8	576.8	581.9	585.9	592.0	595.0	592.0	596.0	596.0
5°	531.3	527.3	537.4	541.4	547.5	555.6	569.7	580.8	577.8	589.9	600.0
7.5°	498.0	498.0	501.0	510.1	517.2	529.3	544.5	561.6	566.7	582.9	598.0
10°	467.7	471.7	471.7	485.9	489.9	504.1	529.3	550.5	551.5	578.8	600.0
12.5°	451.5	449.5	459.6	463.7	475.8	489.9	510.1	536.4	537.4	566.7	596.0
15°	438.4	440.4	445.5	455.6	466.7	477.8	497.0	521.2	526.3	560.6	594.0
17.5°	439.4	440.4	440.4	447.5	456.6	469.7	487.9	516.2	519.2	552.6	590.9
20°	445.5	441.4	444.5	447.5	453.6	465.7	480.8	505.1	508.1	551.5	598.0
22.5°	458.6	455.6	454.6	453.6	452.6	459.6	478.8	499.0	502.0	546.5	601.0
25°	479.8	478.8	471.7	464.7	459.6	459.6	474.8	504.1	503.1	546.5	603.1
27.5°	505.1	505.1	504.1	490.9	475.8	467.7	477.8	502.0	501.0	546.5	608.1
30°	539.4	539.4	536.4	524.3	497.0	473.8	479.8	500.0	503.1	542.5	604.1
32.5°	576.8	575.8	578.8	567.7	539.4	502.0	491.9	504.1	507.1	546.5	605.1
35°	604.1	610.1	620.2	610.1	581.9	531.3	509.1	512.2	514.2	547.5	609.1
37.5°	635.4	642.5	656.6	664.7	634.4	575.8	536.4	525.3	525.3	560.6	610.1
40°	680.8	673.8	698.0	712.2	700.0	630.3	578.8	549.5	550.5	577.8	623.3
42.5°	714.2	721.3	746.5	771.8	756.6	697.0	625.3	588.9	588.9	603.1	643.5
45°	751.6	759.6	795.0	825.3	836.4	776.8	688.9	645.5	643.5	652.6	679.8
47.5°	793.0	804.1	844.5	879.8	909.1	859.6	770.8	714.2	713.2	720.2	740.4
50°	840.5	844.5	877.8	942.5	1001.1	969.8	870.8	811.2	806.1	809.1	836.4
52.5°	854.6	851.6	890.0	959.7	1066.7	1104.1	1007.1	921.3	919.2	912.2	947.5
55°	803.1	813.2	850.6	939.4	1120.3	1262.7	1156.6	1071.8	1053.6	1034.4	1076.8
57.5°	700.0	701.1	743.5	848.5	1078.9	1394.0	1410.2	1219.3	1220.3	1168.8	1217.2
60°	544.5	541.4	574.8	669.7	960.7	1434.4	1687.0	1454.6	1444.5	1303.1	1347.6
62.5°	393.0	386.9	394.0	449.5	718.2	1372.8	1958.7	1718.3	1675.9	1440.5	1474.8
65°	323.3	326.3	329.3	332.3	403.1	1132.4	2042.5	2148.6	2092.0	1601.1	1615.2
67.5°	267.7	269.7	282.8	301.0	299.0	668.7	1945.6	2546.6	2525.4	1800.1	1736.5
70°	227.3	226.3	241.4	274.8	279.8	347.5	1540.5	2628.4	2673.9	2014.3	1873.8
72.5°	181.8	183.8	197.0	241.4	274.8	292.9	886.9	2452.7	2451.7	2178.9	1800.1
75°	130.3	130.3	148.5	200.0	265.7	289.9	490.9	1991.0	2028.4	2047.6	1561.7
77.5°	85.9	89.9	104.0	149.5	249.5	283.9	311.1	1447.6	1494.0	1531.4	1195.0
80°	58.6	60.6	69.7	104.0	211.1	285.9	254.6	973.8	992.0	845.5	484.9
82.5°	35.4	36.4	46.5	72.7	151.5	271.7	239.4	537.4	526.3	255.6	139.4
85°	19.2	20.2	29.3	48.5	100.0	237.4	235.4	263.7	245.5	93.9	58.6
87.5°	7.1	7.1	13.1	24.2	57.6	162.6	205.1	156.6	146.5	47.5	27.3
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°	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0
2.5°	601.0	601.0	601.0	601.0	600.0	596.0	599.0	598.0	592.0	593.0	588.9
5°	599.0	604.1	601.0	597.0	592.0	579.8	575.8	572.8	564.7	561.6	564.7
7.5°	604.1	600.0	598.0	590.9	570.7	559.6	545.5	528.3	516.2	513.2	516.2
10°	603.1	603.1	594.0	573.8	554.6	522.3	504.1	473.8	456.6	451.5	452.6
12.5°	599.0	602.1	587.9	555.6	519.2	479.8	446.5	414.2	383.9	371.7	369.7
15°	603.1	600.0	574.8	533.4	482.9	428.3	379.8	332.3	304.1	285.9	281.8
17.5°	597.0	594.0	557.6	503.1	435.4	365.7	305.1	253.6	225.3	218.2	218.2
20°	604.1	584.9	537.4	466.7	385.9	297.0	228.3	189.9	182.8	182.8	184.9
22.5°	603.1	582.9	520.2	431.3	326.3	224.3	169.7	158.6	159.6	167.7	166.7
25°	597.0	578.8	496.0	391.9	263.7	168.7	140.4	137.4	144.5	153.5	152.5
27.5°	596.0	567.7	473.8	345.5	201.0	133.3	122.2	122.2	129.3	137.4	136.4
30°	589.9	558.6	446.5	292.9	151.5	116.2	112.1	112.1	115.2	119.2	119.2
32.5°	588.9	546.5	416.2	238.4	121.2	105.1	103.0	104.0	104.0	106.1	105.1
35°	580.8	530.3	384.9	184.9	105.1	99.0	97.0	96.0	96.0	95.0	95.0
37.5°	577.8	520.2	352.5	143.4	98.0	93.9	91.9	88.9	87.9	87.9	86.9
40°	580.8	510.1	321.2	116.2	91.9	89.9	86.9	82.8	81.8	81.8	81.8
42.5°	592.0	509.1	288.9	101.0	88.9	85.9	81.8	77.8	76.8	77.8	76.8
45°	617.2	517.2	257.6	93.9	84.9	81.8	76.8	73.7	72.7	73.7	73.7
47.5°	658.6	539.4	229.3	89.9	81.8	77.8	72.7	69.7	69.7	69.7	69.7
50°	727.3	581.9	202.0	86.9	79.8	74.8	69.7	65.7	64.7	64.7	65.7
52.5°	830.4	654.6	179.8	84.9	76.8	70.7	65.7	62.6	60.6	59.6	60.6
55°	954.6	760.7	172.7	82.8	72.7	67.7	62.6	58.6	56.6	56.6	55.6
57.5°	1087.9	877.8	184.9	80.8	69.7	63.6	58.6	54.5	52.5	51.5	51.5
60°	1232.4	1016.2	229.3	79.8	66.7	59.6	54.5	51.5	48.5	47.5	47.5
62.5°	1363.7	1141.5	309.1	78.8	64.7	55.6	50.5	46.5	44.4	43.4	43.4
65°	1513.2	1280.9	386.9	82.8	63.6	52.5	46.5	42.4	40.4	39.4	39.4
67.5°	1643.5	1402.1	432.3	92.9	66.7	48.5	41.4	38.4	37.4	36.4	36.4
70°	1738.5	1439.5	289.9	102.0	71.7	45.5	37.4	35.4	33.3	33.3	33.3
72.5°	1611.2	1284.9	171.7	96.0	67.7	42.4	33.3	31.3	30.3	30.3	29.3
75°	1377.9	1094.0	132.3	77.8	54.5	36.4	29.3	27.3	26.3	26.3	25.3
77.5°	1017.2	783.9	98.0	61.6	42.4	29.3	25.3	24.2	23.2	22.2	22.2
80°	398.0	343.5	66.7	45.5	31.3	23.2	21.2	20.2	19.2	18.2	18.2
82.5°	123.2	104.0	38.4	30.3	22.2	18.2	17.2	16.2	15.2	14.1	14.1
85°	53.5	51.5	25.3	19.2	15.2	12.1	12.1	11.1	10.1	9.1	9.1
87.5°	26.3	25.3	14.1	9.1	8.1	6.1	6.1	5.1	4.0	4.0	4.0
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)