

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: P675610

Luminaire Tested: **CCW-SA-1B-835-U-SL3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675610  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-835-U-SL3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
SL3 distribution lens  
Light Source: (16) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

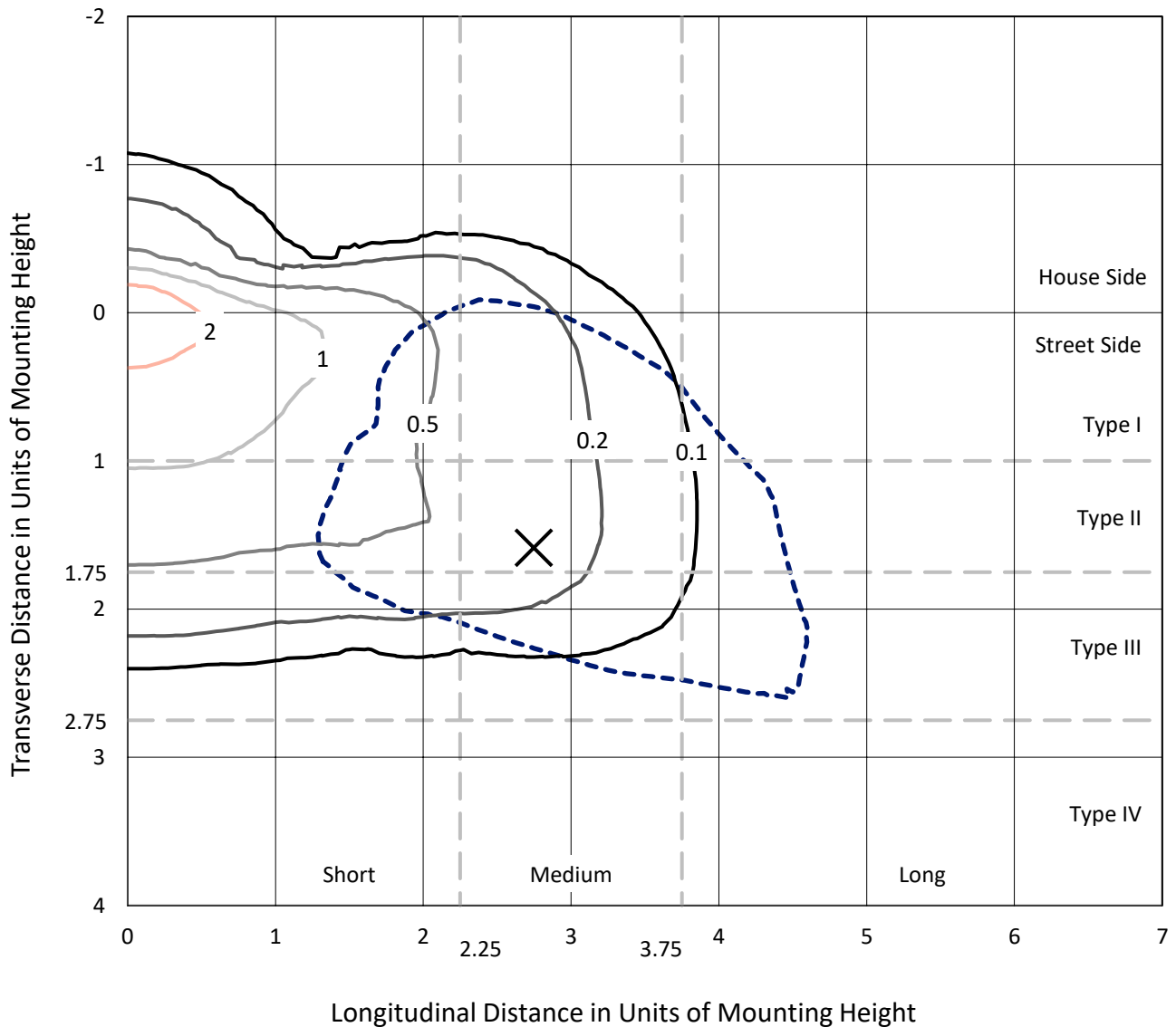
Lumens per Lamp: N/A  
Luminaire Lumens: 2813.7 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

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

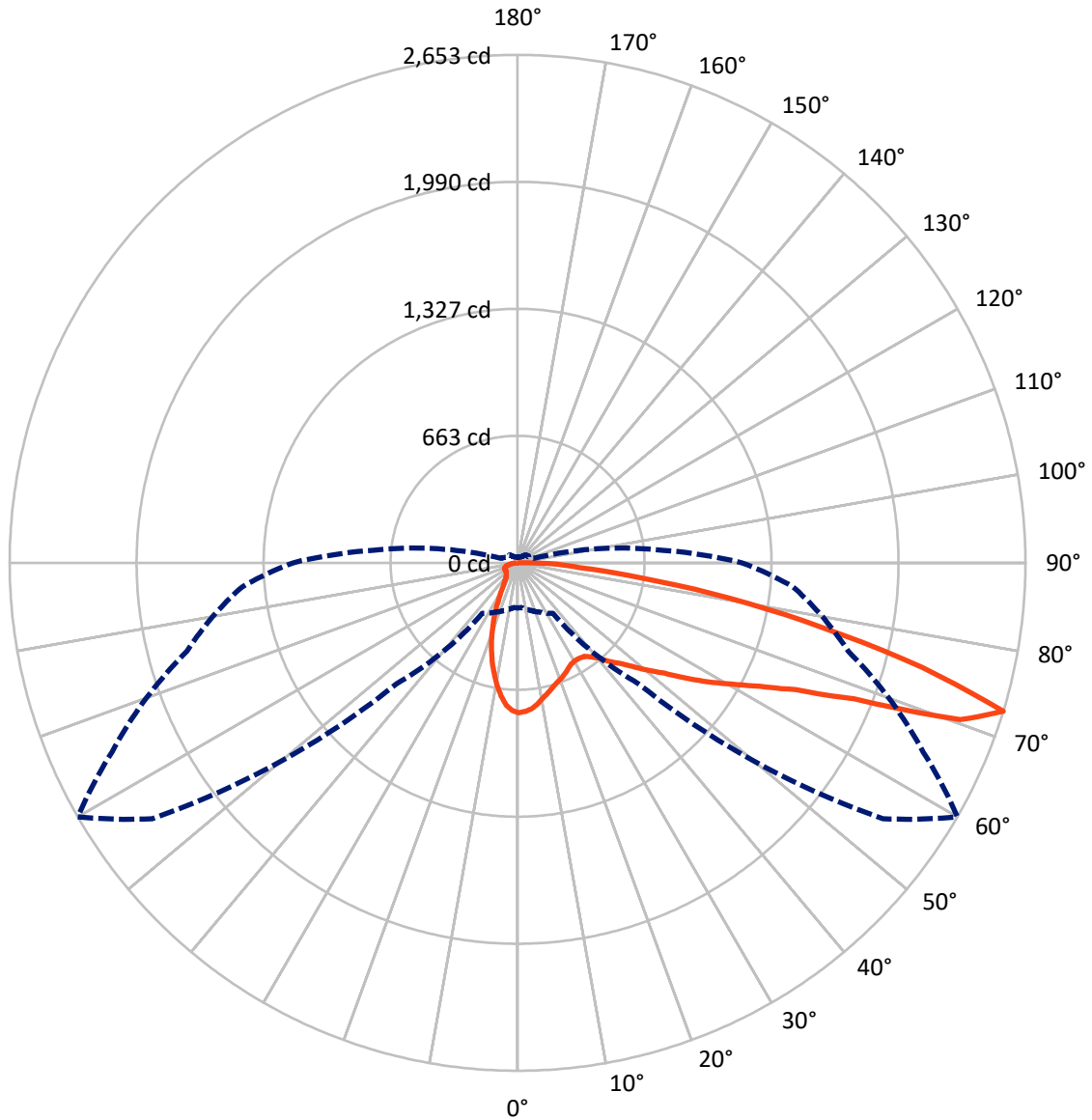
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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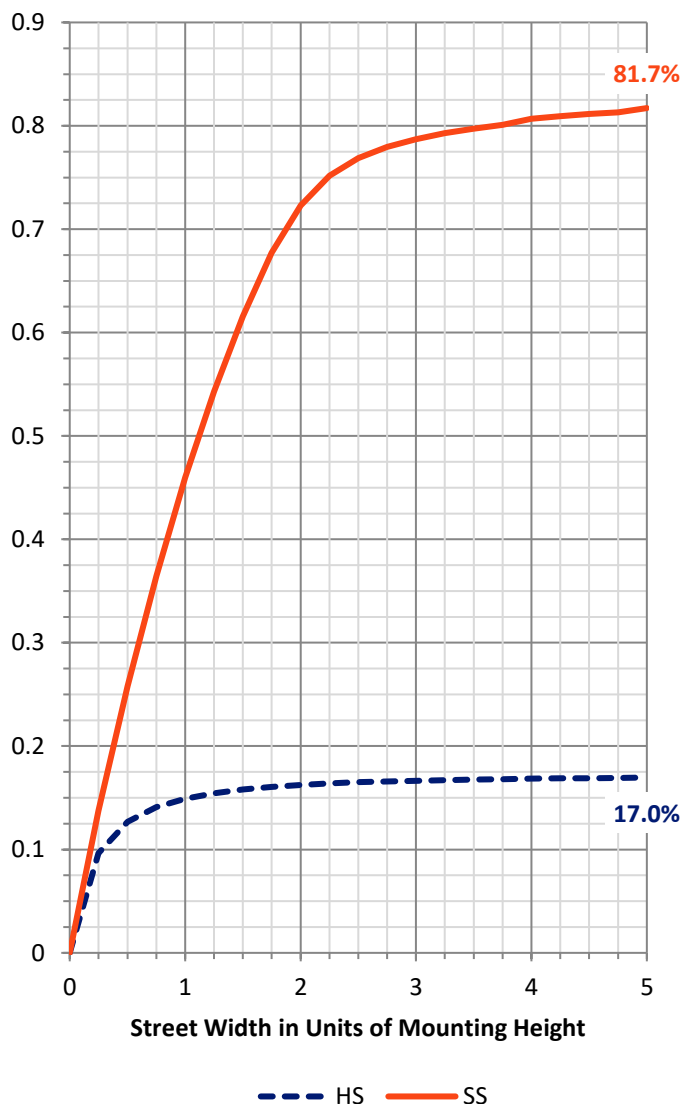
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	483.4	0.0	483.4
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	2330.4	0.0	2330.4
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	2813.7	0.0	2813.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.9	2.4
10°-20°	154.0	5.5
20°-30°	197.1	7.0
30°-40°	252.1	9.0
40°-50°	345.8	12.3
50°-60°	500.2	17.8
60°-70°	686.1	24.4
70°-80°	514.9	18.3
80°-90°	95.7	3.4
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°	2813.7	100.0
0°-180°	2813.7	100.0

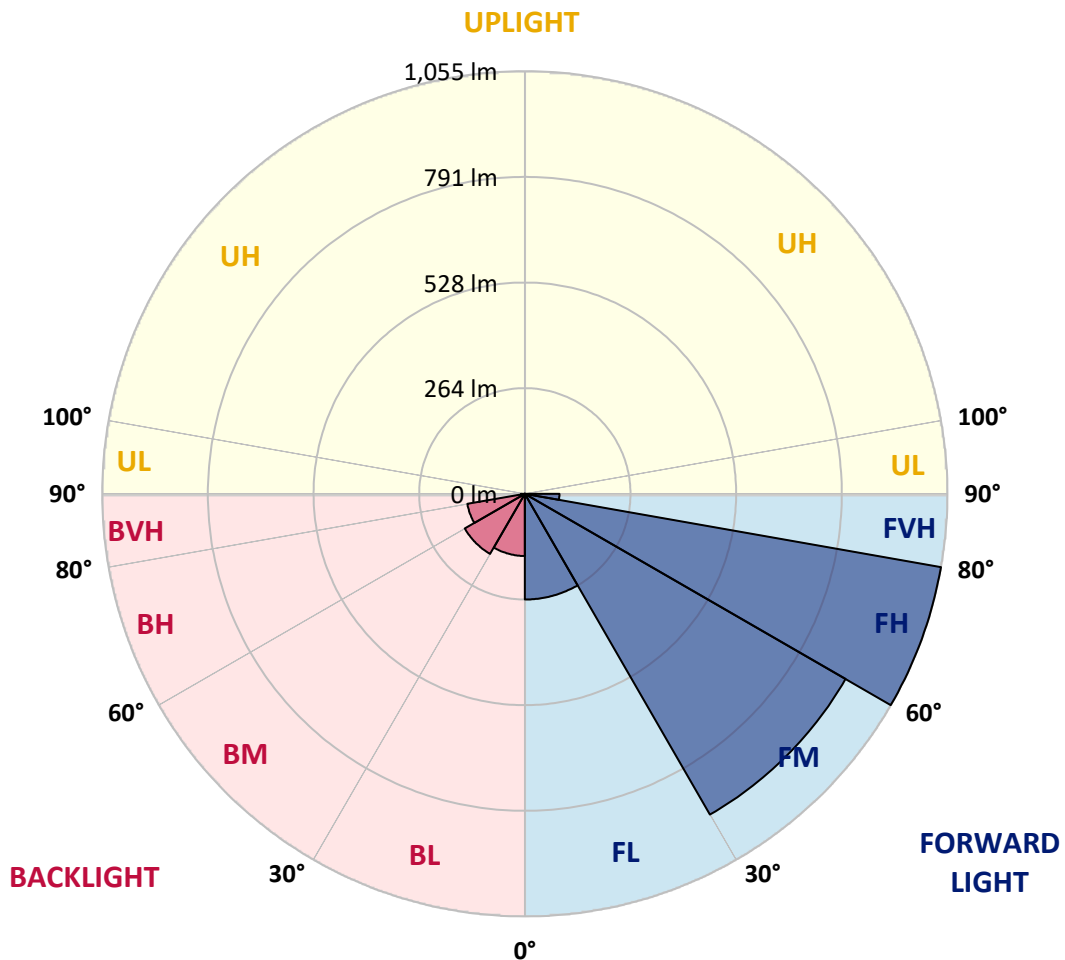


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	263.8	9.4			
FM (30°-60°)	924.8	32.9			
FH (60°-80°)	1055.3	37.5			G1/1800
FVH (80°-90°)	86.4	3.1			G1/100
BL (0°-30°)	155.2	5.5	B1/500		
BM (30°-60°)	173.2	6.2	B0/220		
BH (60°-80°)	145.7	5.2	B1/500		G1/500
BVH (80°-90°)	9.3	0.3			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5
2.5°	766.7	774.1	776.2	776.2	782.4	775.1	785.6	777.2	779.3	782.4	780.3
5°	730.1	742.6	735.3	748.9	743.7	753.1	765.7	765.7	762.5	768.8	763.6
7.5°	694.5	690.3	702.8	702.8	711.2	723.8	734.3	744.7	745.8	747.9	746.8
10°	646.3	651.5	657.8	666.2	676.6	689.2	711.2	719.6	721.7	734.3	731.1
12.5°	606.5	613.8	618.0	634.7	644.2	662.0	687.1	698.6	699.7	717.5	717.5
15°	577.1	581.3	590.8	597.0	618.0	643.1	667.2	677.7	689.2	708.1	702.8
17.5°	557.2	562.5	566.7	575.0	594.9	615.9	653.6	659.9	673.5	700.7	694.5
20°	545.7	546.8	553.0	558.3	576.1	596.0	629.5	646.3	664.1	688.2	681.9
22.5°	547.8	543.6	542.6	549.9	553.0	571.9	612.8	630.6	655.7	684.0	673.5
25°	552.0	553.0	551.0	544.7	545.7	562.5	589.7	612.8	641.0	682.9	662.0
27.5°	562.5	567.7	559.3	553.0	546.8	553.0	581.3	598.1	629.5	688.2	660.9
30°	572.9	578.2	576.1	566.7	554.1	552.0	571.9	592.8	623.2	692.4	660.9
32.5°	588.7	596.0	588.7	591.8	577.1	567.7	575.0	593.9	629.5	707.0	662.0
35°	606.5	612.8	614.8	607.5	604.4	586.6	590.8	600.2	635.8	723.8	672.5
37.5°	626.4	633.7	640.0	641.0	630.6	620.1	618.0	623.2	651.5	753.1	684.0
40°	640.0	644.2	656.7	667.2	670.4	655.7	654.6	654.6	679.8	779.3	704.9
42.5°	663.0	660.9	678.7	697.6	702.8	694.5	696.5	704.9	719.6	817.0	738.4
45°	674.5	672.5	693.4	724.8	748.9	744.7	746.8	750.0	763.6	876.7	795.0
47.5°	690.3	692.4	722.7	758.3	783.5	798.1	809.7	808.6	819.1	937.5	857.9
50°	706.0	710.2	746.8	784.5	828.5	853.7	870.4	881.9	892.4	1001.3	930.1
52.5°	736.3	740.5	781.4	822.2	878.8	915.5	957.4	956.3	957.4	1065.2	1002.4
55°	780.3	781.4	805.5	852.6	929.1	996.1	1053.7	1060.0	1042.2	1144.8	1085.1
57.5°	830.6	834.8	855.8	891.4	968.9	1073.6	1161.6	1174.2	1126.0	1209.8	1160.6
60°	877.8	880.9	913.4	954.2	1038.0	1171.0	1270.5	1285.2	1232.8	1289.4	1239.1
62.5°	824.3	840.0	897.7	990.9	1159.5	1318.7	1408.8	1418.2	1336.5	1370.0	1322.9
65°	659.9	670.4	753.1	903.9	1167.9	1586.9	1622.5	1597.3	1479.0	1473.7	1449.7
67.5°	367.7	376.0	432.6	590.8	983.5	1687.4	2082.3	1898.0	1700.0	1629.8	1621.4
70°	290.1	292.2	299.6	332.0	545.7	1487.4	2444.7	2453.1	2061.4	1844.5	1658.1
72.5°	235.7	234.6	256.6	284.9	322.6	892.4	2330.5	2653.2	2337.9	1788.0	1444.4
75°	180.2	183.3	211.6	252.4	295.4	420.0	1738.7	2182.9	2190.2	1666.5	1218.2
77.5°	137.2	138.3	169.7	223.1	289.1	296.4	1134.4	1626.7	1634.0	1290.4	671.4
80°	102.6	102.6	128.8	188.5	281.8	273.4	698.6	1128.1	1021.3	453.5	146.6
82.5°	58.7	62.8	85.9	143.5	255.6	262.9	393.8	646.3	431.5	123.6	68.1
85°	31.4	32.5	52.4	96.4	210.5	251.4	300.6	321.6	171.8	66.0	31.4
87.5°	11.5	11.5	24.1	49.2	133.0	186.4	238.8	205.3	98.5	30.4	15.7
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°	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5
2.5°	782.4	778.2	775.1	778.2	766.7	761.5	767.8	764.6	758.3	755.2	753.1
5°	766.7	761.5	756.2	753.1	740.5	728.0	721.7	709.1	698.6	701.8	695.5
7.5°	750.0	744.7	729.0	714.4	689.2	664.1	652.6	634.7	628.5	623.2	620.1
10°	729.0	719.6	695.5	666.2	629.5	601.2	571.9	551.0	529.0	519.5	522.7
12.5°	702.8	697.6	659.9	614.8	563.5	516.4	481.8	448.3	419.0	403.3	399.1
15°	691.3	675.6	621.1	561.4	496.5	437.8	386.5	327.8	293.3	276.5	276.5
17.5°	678.7	649.4	584.5	502.8	428.4	353.0	280.7	227.3	200.1	190.6	190.6
20°	658.8	626.4	541.5	447.3	357.2	266.0	201.1	171.8	163.4	157.1	158.2
22.5°	644.2	604.4	501.7	392.8	282.8	198.0	158.2	148.7	145.6	143.5	144.5
25°	627.4	578.2	459.8	334.1	222.1	156.1	137.2	133.0	135.1	136.2	136.2
27.5°	613.8	556.2	416.9	271.3	167.6	132.0	123.6	122.6	126.7	128.8	129.9
30°	604.4	536.3	375.0	213.7	134.1	117.3	113.1	113.1	118.4	120.5	121.5
32.5°	594.9	519.5	329.9	163.4	114.2	104.7	103.7	104.7	107.9	107.9	108.9
35°	598.1	503.8	287.0	132.0	102.6	96.4	96.4	96.4	97.4	98.5	98.5
37.5°	604.4	499.6	240.9	111.0	94.3	90.1	90.1	89.0	90.1	89.0	90.1
40°	610.7	493.3	199.0	98.5	89.0	85.9	84.8	82.7	81.7	81.7	82.7
42.5°	636.8	501.7	163.4	90.1	84.8	82.7	79.6	77.5	76.5	76.5	76.5
45°	670.4	517.4	135.1	85.9	81.7	76.5	74.4	73.3	71.2	72.3	73.3
47.5°	720.6	541.5	118.4	82.7	78.6	72.3	70.2	68.1	68.1	70.2	70.2
50°	786.6	581.3	107.9	79.6	75.4	69.1	66.0	64.9	64.9	68.1	68.1
52.5°	857.9	627.4	103.7	78.6	72.3	66.0	62.8	61.8	61.8	66.0	66.0
55°	929.1	684.0	106.8	78.6	70.2	62.8	59.7	57.6	58.7	61.8	61.8
57.5°	1007.6	744.7	122.6	78.6	68.1	61.8	57.6	54.5	55.5	56.6	56.6
60°	1093.5	824.3	149.8	78.6	67.0	59.7	54.5	50.3	50.3	51.3	51.3
62.5°	1180.5	902.9	188.5	79.6	68.1	58.7	50.3	46.1	45.0	46.1	46.1
65°	1294.6	1028.6	227.3	79.6	71.2	56.6	47.1	41.9	40.9	40.9	41.9
67.5°	1454.9	1118.7	176.0	76.5	73.3	56.6	44.0	38.8	36.7	36.7	36.7
70°	1370.0	943.7	112.1	71.2	70.2	58.7	41.9	35.6	33.5	32.5	32.5
72.5°	1173.1	755.2	90.1	67.0	64.9	57.6	39.8	33.5	30.4	29.3	29.3
75°	940.6	596.0	78.6	60.8	56.6	48.2	36.7	30.4	28.3	26.2	26.2
77.5°	460.9	249.3	59.7	53.4	48.2	36.7	32.5	28.3	25.1	23.0	23.0
80°	115.2	86.9	44.0	41.9	35.6	28.3	26.2	24.1	22.0	19.9	19.9
82.5°	61.8	51.3	31.4	28.3	24.1	19.9	19.9	18.9	17.8	15.7	14.7
85°	31.4	30.4	20.9	18.9	15.7	12.6	13.6	13.6	12.6	9.4	9.4
87.5°	16.8	16.8	10.5	8.4	7.3	6.3	6.3	6.3	5.2	4.2	4.2
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)