

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: P675732

Luminaire Tested: **CCW-SA-1B-827-U-SL4**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675732  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-827-U-SL4  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
SL4 distribution lens  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

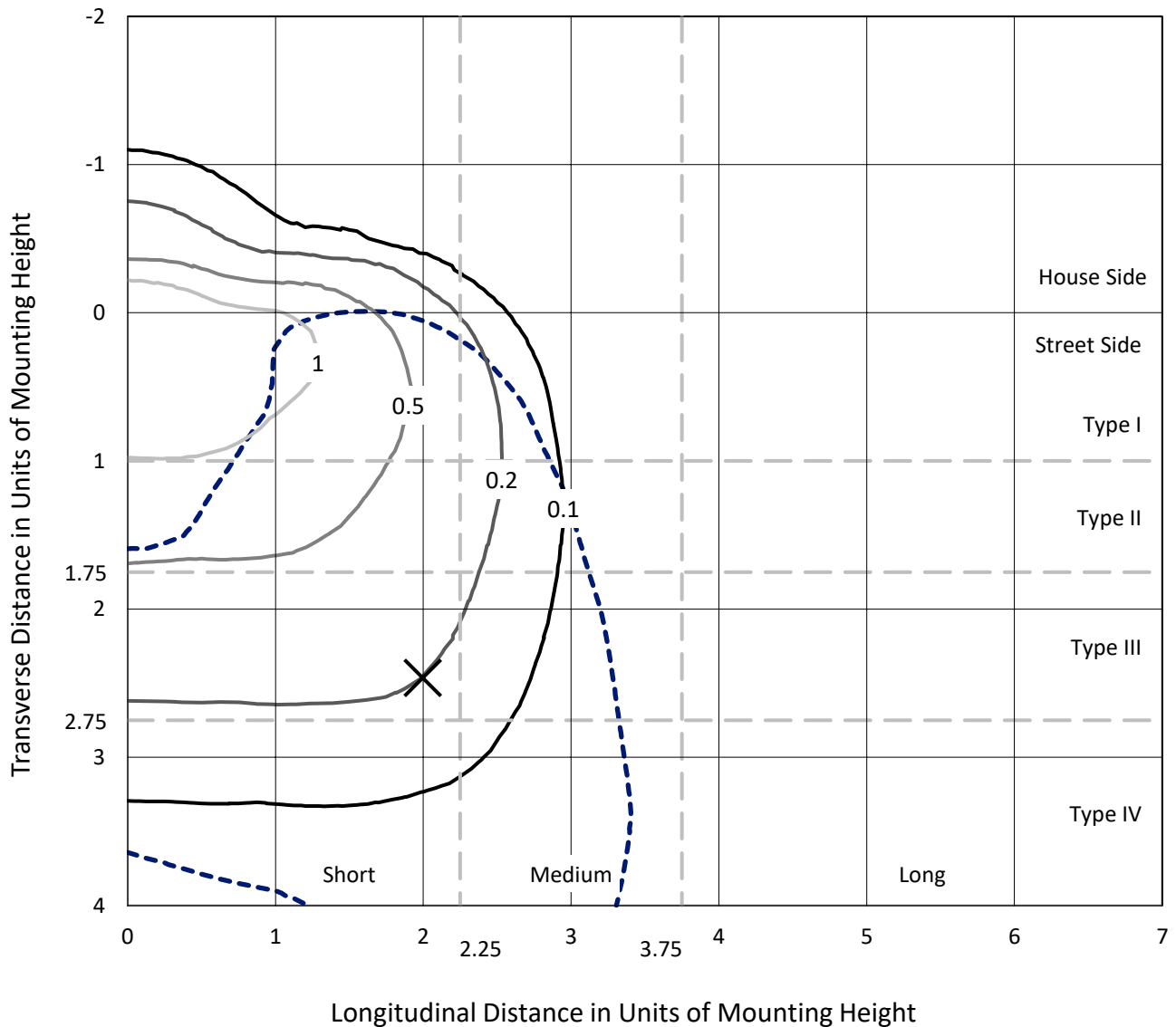
Lumens per Lamp: N/A  
Luminaire Lumens: 2487.8 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

Input Watts (W): 24  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

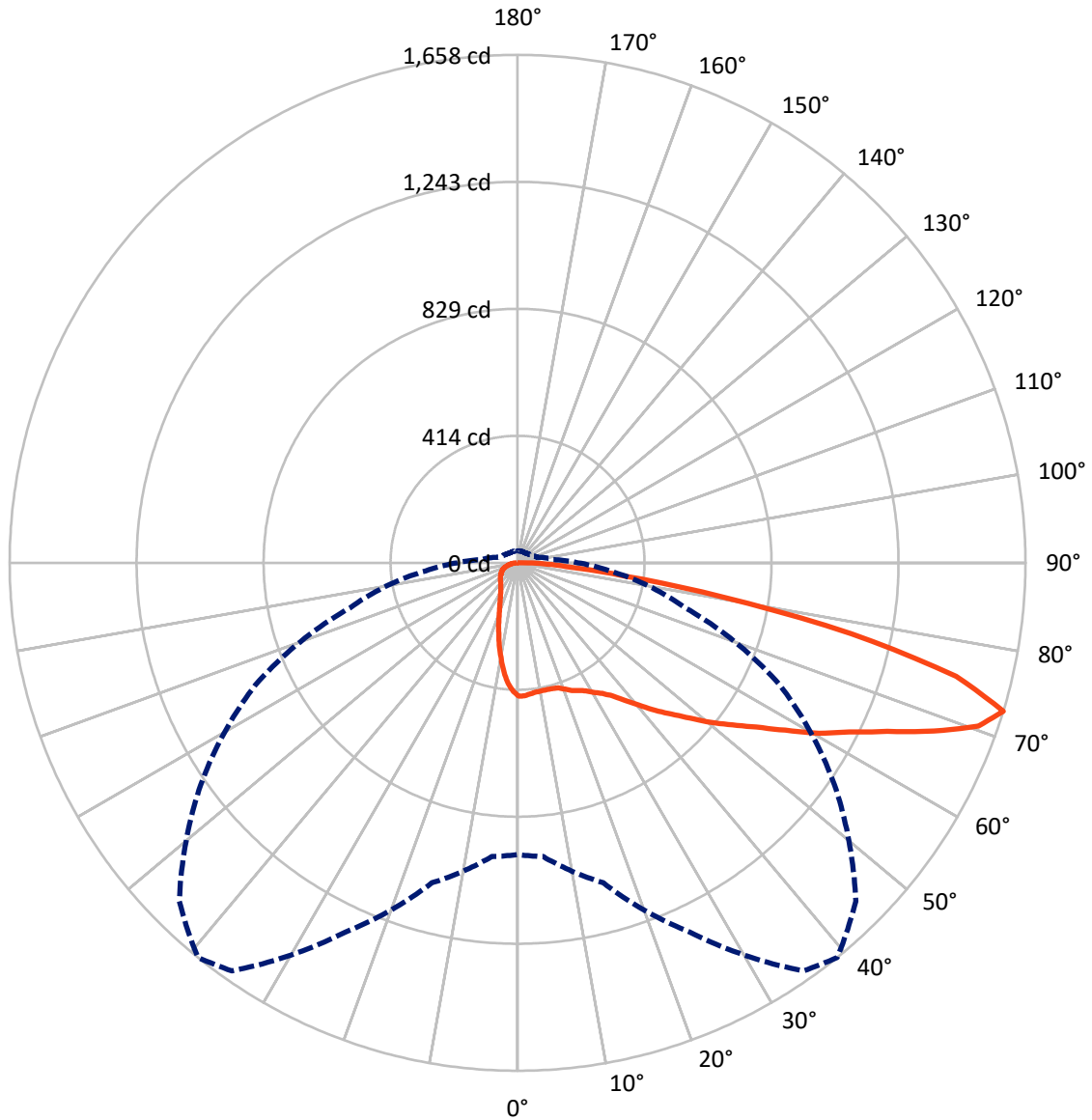
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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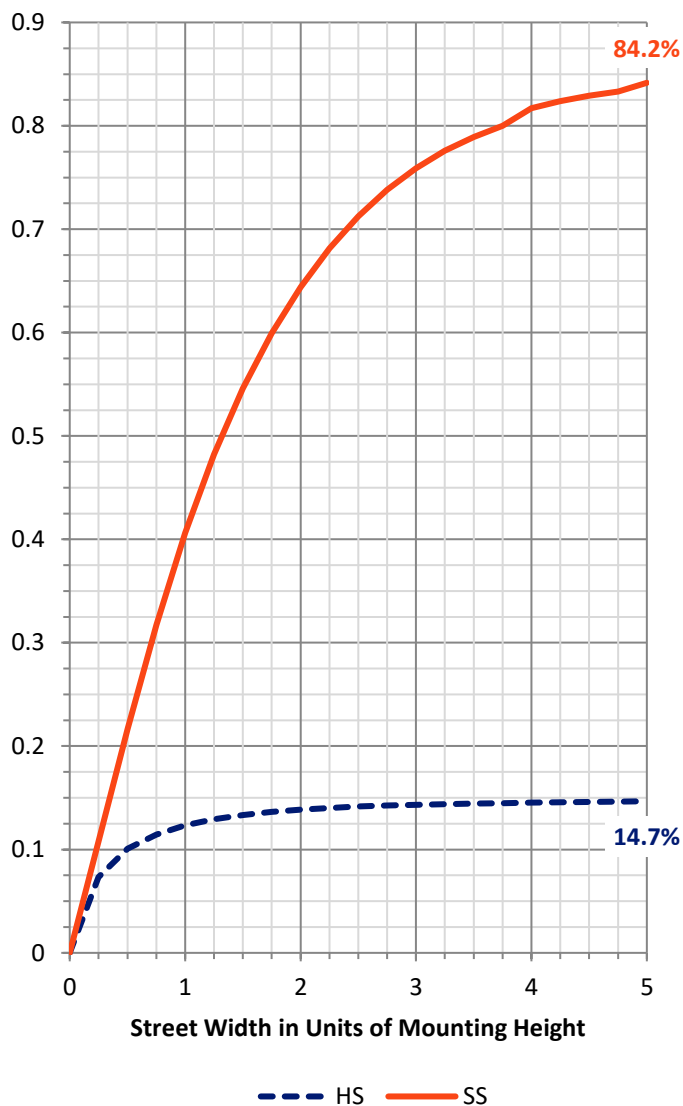
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	369.7	0.0	369.7
	% Fixture	14.9	0.0	14.9
<b>Street Side</b>	Lumens	2118.0	0.0	2118.0
	% Fixture	85.1	0.0	85.1
<b>Total</b>	Lumens	2487.8	0.0	2487.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.5	1.5
10°-20°	98.2	3.9
20°-30°	149.6	6.0
30°-40°	218.9	8.8
40°-50°	335.1	13.5
50°-60°	491.5	19.8
60°-70°	626.8	25.2
70°-80°	452.9	18.2
80°-90°	76.4	3.1
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°	2487.8	100.0
0°-180°	2487.8	100.0

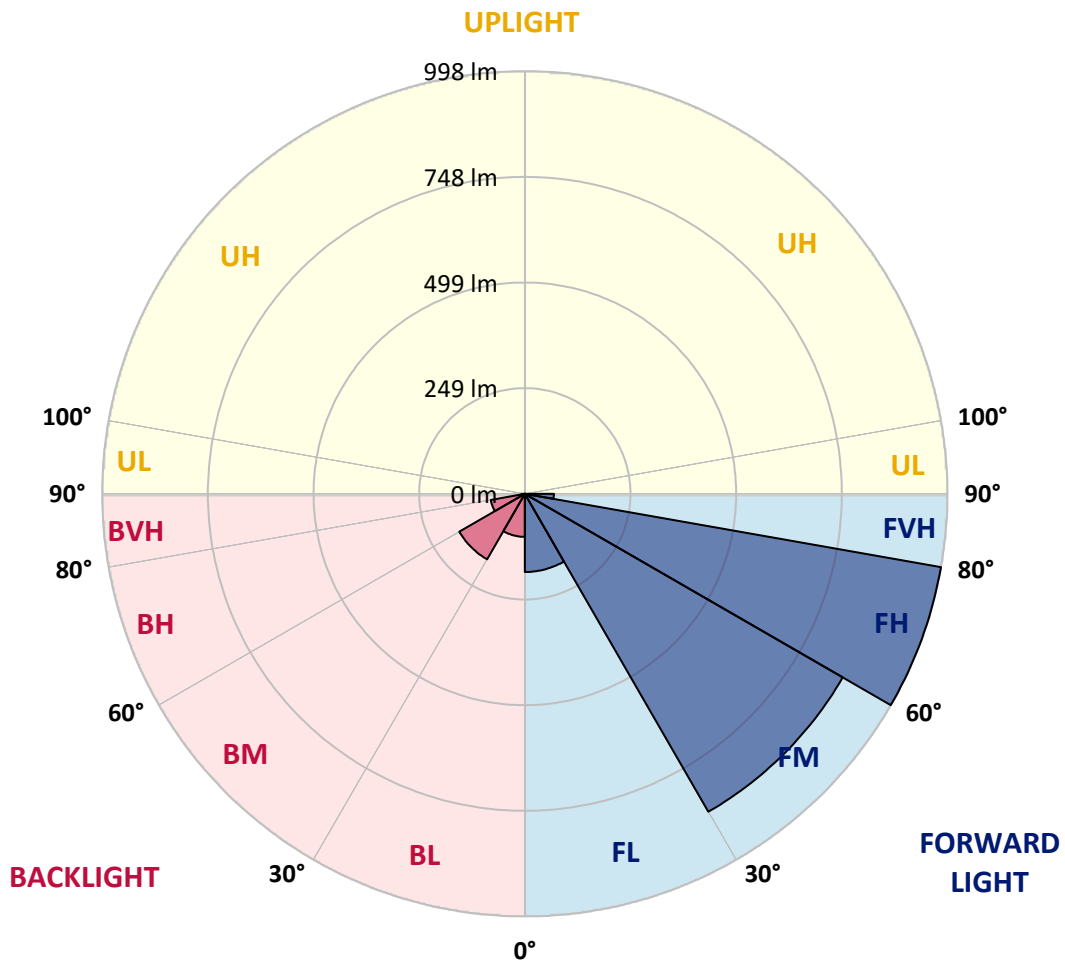


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	184.6	7.4			
FM (30°-60°)	866.8	34.8			
FH (60°-80°)	998.0	40.1			G1/1800
FVH (80°-90°)	68.7	2.8			G1/100
BL (0°-30°)	101.7	4.1	B0/110		
BM (30°-60°)	178.6	7.2	B0/220		
BH (60°-80°)	81.7	3.3	B0/110		G0/110
BVH (80°-90°)	7.7	0.3			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	435.5	435.5	435.5	435.5	435.5	435.5	435.5	435.5	435.5	435.5	435.5
2.5°	442.0	442.9	441.1	439.2	438.3	434.5	438.3	436.4	434.5	434.5	434.5
5°	436.4	437.3	437.3	435.5	436.4	429.9	428.9	429.9	427.1	425.2	424.3
7.5°	428.0	429.9	433.6	432.7	428.9	426.1	427.1	426.1	421.5	418.6	411.2
10°	421.5	423.3	425.2	427.1	426.1	425.2	424.3	420.5	419.6	413.0	405.6
12.5°	414.9	414.9	415.8	423.3	424.3	424.3	418.6	418.6	415.8	414.9	403.7
15°	408.4	411.2	418.6	420.5	424.3	426.1	423.3	423.3	418.6	412.1	403.7
17.5°	410.2	414.9	422.4	427.1	428.9	428.9	432.7	429.9	423.3	419.6	411.2
20°	419.6	420.5	429.9	438.3	440.1	440.1	436.4	433.6	428.9	422.4	411.2
22.5°	425.2	431.7	442.9	447.6	453.2	453.2	448.6	442.0	435.5	428.9	416.8
25°	449.5	450.4	455.1	462.6	465.4	461.6	457.0	449.5	441.1	434.5	423.3
27.5°	466.3	471.0	476.6	480.3	475.7	472.8	469.1	460.7	454.2	448.6	432.7
30°	497.1	491.5	495.3	497.1	488.7	490.6	480.3	472.8	465.4	465.4	447.6
32.5°	515.8	520.5	516.8	515.8	509.3	508.4	501.8	493.4	488.7	494.3	470.0
35°	548.5	545.7	545.7	544.8	537.3	532.7	532.7	517.7	522.4	534.5	504.6
37.5°	565.4	564.4	570.0	574.7	567.2	570.0	567.2	560.7	562.6	584.1	547.6
40°	582.2	588.7	599.9	601.8	606.5	610.2	608.3	607.4	614.9	649.5	605.5
42.5°	598.1	603.7	620.5	635.4	646.7	658.8	659.7	659.7	684.0	733.6	675.6
45°	618.6	623.3	646.7	676.6	695.3	703.7	711.1	719.6	752.3	811.1	750.4
47.5°	646.7	650.4	678.4	715.8	752.3	756.9	771.9	781.2	830.8	890.6	827.0
50°	686.8	684.0	706.5	760.7	796.2	818.6	840.1	856.9	905.5	970.9	886.8
52.5°	719.6	719.6	736.4	808.3	856.9	878.4	900.8	924.2	980.3	1051.3	935.4
55°	775.6	770.0	780.3	855.1	925.1	945.7	988.7	1008.3	1062.5	1111.1	976.5
57.5°	813.9	816.7	828.9	916.7	1005.5	1030.7	1073.7	1087.7	1135.4	1173.7	1006.4
60°	864.4	855.1	881.2	984.9	1094.3	1129.8	1165.3	1173.7	1209.2	1213.9	1020.5
62.5°	913.0	911.1	933.5	1053.2	1189.6	1214.8	1251.3	1260.6	1275.6	1245.7	1000.8
65°	942.9	955.0	997.1	1127.9	1298.0	1326.0	1362.5	1343.8	1327.0	1217.6	904.6
67.5°	984.0	989.6	1054.1	1209.2	1423.2	1465.3	1497.0	1423.2	1298.0	1102.7	761.6
70°	993.4	1008.3	1092.4	1294.3	1552.2	1595.2	1597.0	1396.1	1192.4	897.1	552.3
72.5°	952.2	962.5	1081.2	1329.8	1626.0	1657.8	1561.5	1262.5	944.8	565.4	300.9
75°	800.9	829.8	941.0	1220.4	1490.5	1478.4	1323.2	963.5	567.2	250.4	127.1
77.5°	557.9	558.8	674.7	887.8	1115.8	1113.0	943.8	558.8	243.0	100.9	74.8
80°	247.6	265.4	335.5	478.5	677.5	677.5	550.4	277.5	121.5	65.4	51.4
82.5°	145.8	151.4	179.4	223.3	329.9	347.6	263.5	185.0	83.2	41.1	31.8
85°	107.5	116.8	133.6	134.6	156.1	158.9	145.8	160.7	57.0	22.4	26.2
87.5°	80.4	86.0	106.5	88.8	83.2	78.5	89.7	164.5	21.5	11.2	8.4
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°	435.5	435.5	435.5	435.5	435.5	435.5	435.5	435.5	435.5	435.5	435.5
2.5°	430.8	430.8	428.9	425.2	425.2	417.7	419.6	421.5	416.8	416.8	417.7
5°	424.3	420.5	415.8	410.2	406.5	396.2	394.4	387.8	386.9	385.0	382.2
7.5°	411.2	405.6	397.2	388.7	376.6	367.3	356.0	346.7	343.0	340.2	339.2
10°	399.0	398.1	384.1	367.3	348.6	330.8	314.0	301.8	294.4	289.7	288.8
12.5°	399.0	391.5	371.9	348.6	321.5	295.3	273.8	257.0	246.7	239.2	236.4
15°	397.2	389.7	363.5	328.0	297.2	261.7	231.8	214.0	199.0	191.6	192.5
17.5°	399.0	387.8	351.4	313.1	270.1	231.8	196.2	174.7	159.8	154.2	153.3
20°	400.0	385.9	342.0	292.5	242.0	199.0	165.4	144.8	133.6	129.9	129.9
22.5°	398.1	380.3	328.0	268.2	217.7	171.9	143.9	126.2	118.7	114.0	115.9
25°	406.5	379.4	314.9	247.6	189.7	149.5	128.0	114.9	110.3	107.5	108.4
27.5°	408.4	379.4	304.6	224.3	165.4	132.7	115.9	107.5	103.7	101.9	100.9
30°	415.8	381.3	292.5	200.9	145.8	119.6	106.5	101.9	99.1	98.1	98.1
32.5°	436.4	386.9	279.4	181.3	129.0	108.4	100.0	96.3	94.4	93.4	94.4
35°	460.7	401.8	265.4	160.7	116.8	100.9	94.4	91.6	90.6	90.6	90.6
37.5°	498.1	424.3	253.2	143.9	106.5	93.4	88.8	87.8	86.9	87.8	87.8
40°	541.1	448.6	242.0	130.8	99.1	88.8	84.1	84.1	83.2	84.1	85.0
42.5°	590.6	478.5	230.8	117.7	92.5	85.0	81.3	80.4	79.4	81.3	82.2
45°	658.8	519.6	223.3	110.3	87.8	81.3	77.6	77.6	76.6	76.6	78.5
47.5°	715.8	558.8	223.3	102.8	85.0	78.5	74.8	74.8	72.9	73.8	73.8
50°	763.5	592.5	228.0	100.9	81.3	75.7	72.9	71.0	70.1	70.1	70.1
52.5°	795.2	613.0	231.8	99.1	79.4	72.0	70.1	69.2	67.3	66.3	67.3
55°	827.0	627.0	232.7	99.1	76.6	68.2	66.3	66.3	64.5	63.5	63.5
57.5°	839.2	621.4	219.6	97.2	74.8	65.4	63.5	62.6	61.7	60.7	60.7
60°	833.6	600.9	190.6	92.5	72.9	63.5	59.8	59.8	59.8	57.9	58.9
62.5°	795.2	530.8	153.3	85.0	70.1	59.8	56.1	57.9	57.9	57.0	57.0
65°	694.3	438.3	124.3	78.5	66.3	57.0	53.3	56.1	57.0	56.1	55.1
67.5°	555.1	337.3	102.8	71.0	61.7	52.3	49.5	52.3	53.3	52.3	52.3
70°	381.3	217.7	83.2	63.5	55.1	47.7	44.9	46.7	46.7	47.7	47.7
72.5°	197.2	117.7	68.2	54.2	47.7	43.0	40.2	40.2	39.2	39.2	39.2
75°	98.1	80.4	57.0	45.8	40.2	36.4	34.6	32.7	32.7	32.7	32.7
77.5°	68.2	61.7	46.7	36.4	32.7	29.9	29.9	27.1	27.1	27.1	27.1
80°	51.4	48.6	35.5	28.0	25.2	23.4	23.4	22.4	22.4	21.5	21.5
82.5°	36.4	39.2	27.1	20.6	18.7	17.8	17.8	16.8	16.8	15.0	15.0
85°	29.0	32.7	20.6	15.0	14.0	12.1	12.1	11.2	11.2	10.3	9.3
87.5°	8.4	17.8	8.4	5.6	5.6	5.6	5.6	4.7	4.7	3.7	3.7
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)