

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: P675206

Luminaire Tested: **CCW-SA-2B-850-U-T4FT**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675206  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-850-U-T4FT  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
T4FT distribution lens  
Light Source: (32) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

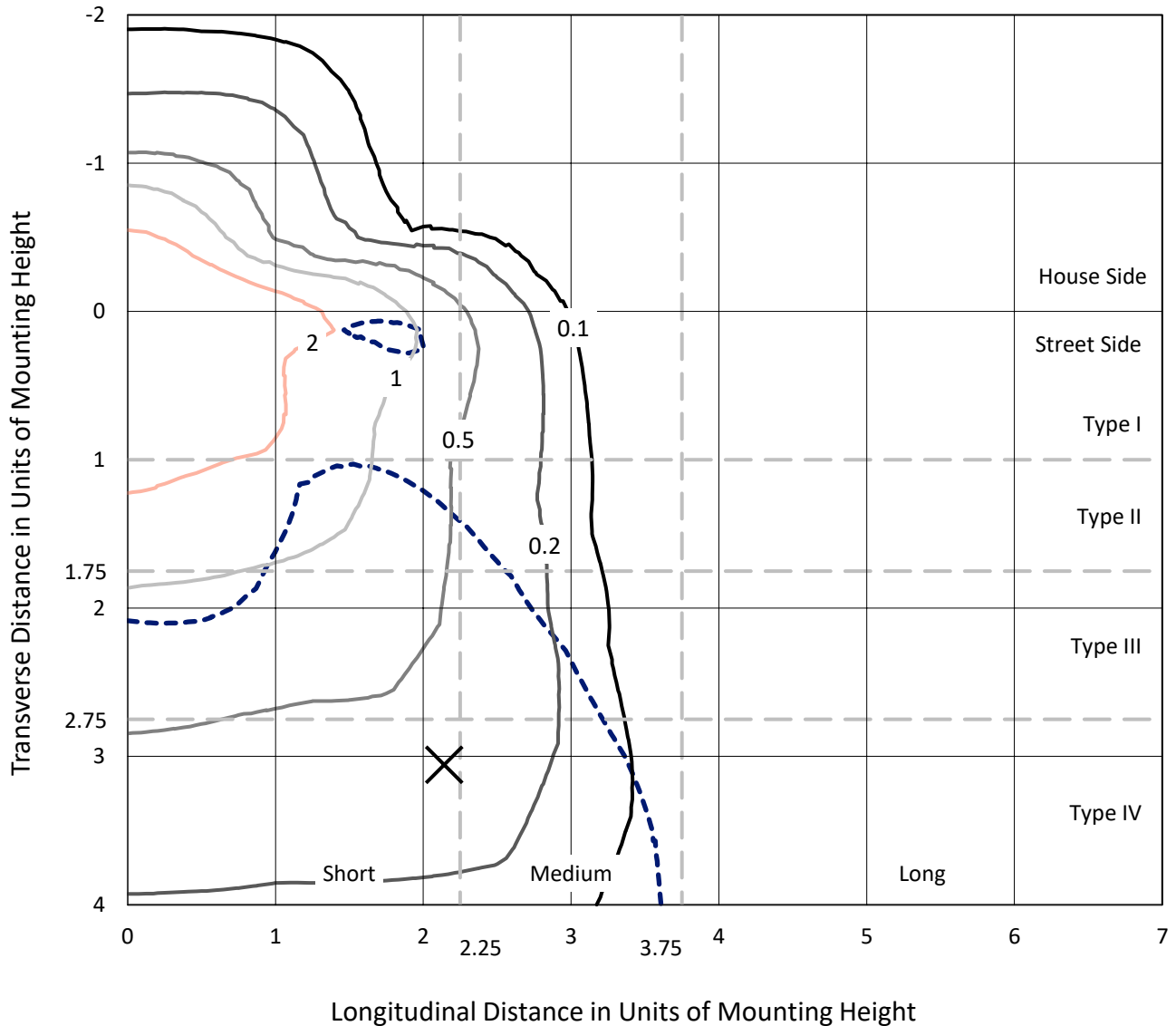
Lumens per Lamp: N/A  
Luminaire Lumens: 6022.6 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 46  
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

REPORT NUMBER: P675206  
 CATALOG NUMBER: CCW-SA-2B-850-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

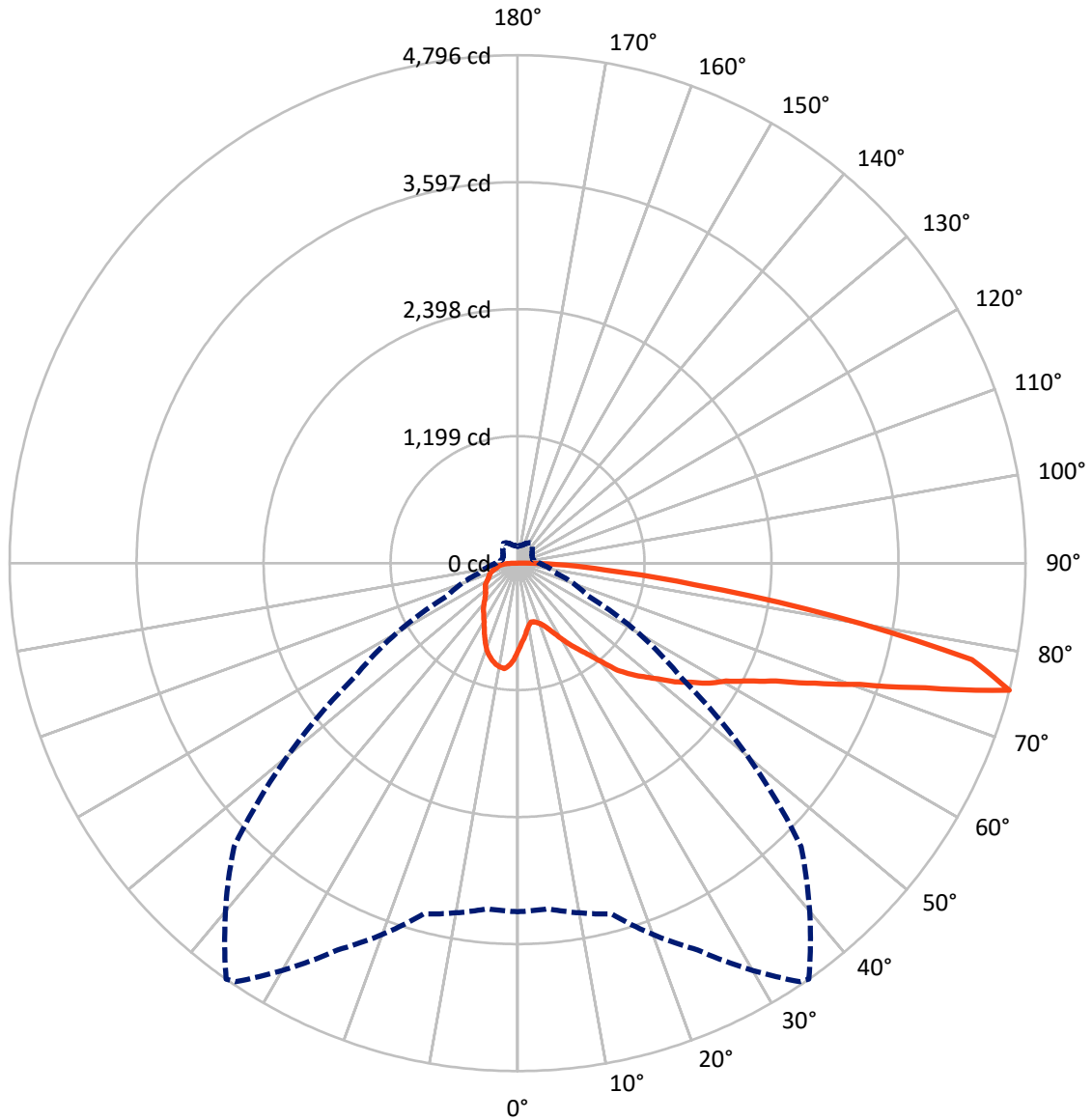
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.4 fc  
 Type IV - Short - N/A

REPORT NUMBER: P675206  
CATALOG NUMBER: CCW-SA-2B-850-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P675206  
 CATALOG NUMBER: CCW-SA-2B-850-U-T4FT

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1384.2	0.0	1384.2
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	4638.5	0.0	4638.5
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	6022.6	0.0	6022.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.6	1.3
10°-20°	228.2	3.8
20°-30°	378.6	6.3
30°-40°	561.3	9.3
40°-50°	809.3	13.4
50°-60°	1112.9	18.5
60°-70°	1374.7	22.8
70°-80°	1257.6	20.9
80°-90°	221.4	3.7
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°	6022.6	100.0
0°-180°	6022.6	100.0



REPORT NUMBER: P675206

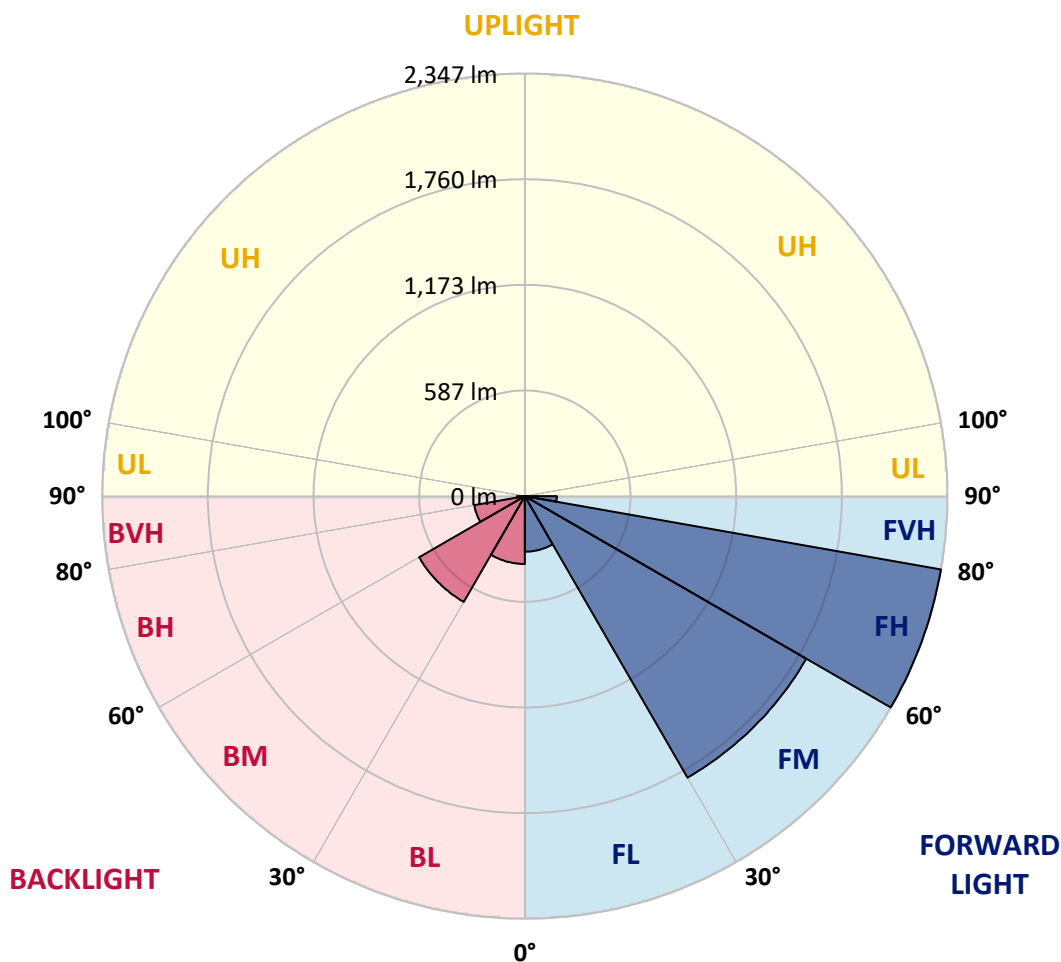
CATALOG NUMBER: CCW-SA-2B-850-U-T4FT

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	308.7	5.1			
FM	(30°-60°)	1805.2	30.0			
FH	(60°-80°)	2346.9	39.0			G2/5000
FVH	(80°-90°)	177.7	3.0			G2/225
BL	(0°-30°)	376.7	6.3	B1/500		
BM	(30°-60°)	678.3	11.3	B1/1000		
BH	(60°-80°)	285.4	4.7	B1/500		G1/500
BVH	(80°-90°)	43.7	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





REPORT NUMBER: P675206

CATALOG NUMBER: CCW-SA-2B-850-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	825.1	825.1	825.1	825.1	825.1	825.1	825.1	825.1	825.1	825.1	825.1
2.5°	747.5	740.8	747.5	751.9	751.9	751.9	758.6	778.6	791.9	800.7	816.3
5°	669.9	672.1	676.5	687.6	694.3	698.7	709.8	734.2	754.2	783.0	816.3
7.5°	601.1	605.5	612.2	623.3	638.8	636.6	661.0	694.3	732.0	769.7	818.5
10°	565.6	574.5	576.7	578.9	594.5	594.5	627.7	665.4	712.0	760.8	818.5
12.5°	572.3	572.3	565.6	563.4	572.3	570.1	598.9	643.3	694.3	763.0	827.4
15°	592.2	592.2	578.9	565.6	578.9	574.5	598.9	634.4	694.3	765.2	845.1
17.5°	618.9	621.1	605.5	583.4	587.8	590.0	607.8	641.0	694.3	769.7	869.5
20°	672.1	661.0	636.6	601.1	616.6	610.0	636.6	665.4	707.6	787.4	905.0
22.5°	718.7	718.7	672.1	641.0	643.3	643.3	667.7	692.0	727.5	811.8	931.6
25°	794.1	789.6	732.0	685.4	689.8	692.0	705.4	734.2	760.8	825.1	964.9
27.5°	889.5	878.4	820.7	767.5	749.7	756.4	763.0	785.2	791.9	847.3	1004.8
30°	991.5	976.0	927.2	842.9	834.0	836.2	825.1	838.4	829.6	882.8	1044.7
32.5°	1055.8	1055.8	1009.2	947.1	922.7	922.7	885.0	893.9	893.9	916.1	1115.7
35°	1111.3	1106.8	1075.8	1029.2	1013.7	1004.8	967.1	980.4	958.2	980.4	1215.5
37.5°	1195.6	1182.3	1168.9	1137.9	1106.8	1100.2	1080.2	1089.1	1058.0	1046.9	1328.6
40°	1293.2	1286.5	1273.2	1259.9	1228.8	1226.6	1204.4	1213.3	1180.0	1137.9	1441.8
42.5°	1437.3	1417.4	1375.2	1364.1	1370.8	1379.7	1370.8	1355.3	1295.4	1242.1	1563.8
45°	1581.5	1550.5	1470.6	1452.9	1503.9	1497.2	1534.9	1528.3	1430.7	1346.4	1692.4
47.5°	1674.7	1648.1	1583.7	1572.6	1594.8	1603.7	1716.8	1696.9	1541.6	1441.8	1816.6
50°	1741.2	1743.4	1659.1	1688.0	1716.8	1716.8	1858.8	1856.6	1676.9	1559.3	1978.6
52.5°	1838.8	1807.8	1772.3	1798.9	1838.8	1861.0	2036.2	1987.4	1761.2	1659.1	2160.4
55°	1889.8	1876.5	1845.5	1892.0	1976.3	1987.4	2173.7	2136.0	1856.6	1776.7	2346.8
57.5°	1909.8	1920.9	1971.9	1991.9	2109.4	2138.3	2298.0	2244.7	1945.3	1923.1	2490.9
60°	1998.5	1983.0	2051.7	2131.6	2244.7	2260.3	2453.2	2337.9	2031.8	2018.5	2537.5
62.5°	2178.2	2138.3	2176.0	2271.3	2428.8	2448.8	2617.4	2462.1	2069.5	2082.8	2535.3
65°	2439.9	2411.1	2355.6	2431.0	2652.9	2681.7	2810.3	2568.6	2058.4	2060.6	2355.6
67.5°	2748.2	2701.7	2644.0	2690.6	2961.2	3027.7	3045.5	2615.1	1980.8	1936.4	1916.4
70°	3018.8	2987.8	2950.1	3029.9	3407.0	3431.4	3338.3	2586.3	1765.6	1554.9	1277.6
72.5°	3271.7	3256.2	3278.4	3577.8	4010.3	4025.9	3613.3	2404.4	1395.2	942.7	594.5
75°	3291.7	3276.1	3429.2	4030.3	4766.7	4795.5	3784.1	1885.4	736.4	383.7	250.6
77.5°	2229.2	2275.8	2561.9	3529.0	4378.5	4385.2	3094.3	876.2	303.9	226.2	175.2
80°	547.9	607.8	964.9	1825.5	2952.3	3025.5	1694.6	295.0	199.6	173.0	130.9
82.5°	199.6	217.4	392.6	825.1	1659.1	1688.0	592.2	159.7	144.2	133.1	95.4
85°	95.4	97.6	186.3	405.9	838.4	829.6	212.9	95.4	104.3	90.9	57.7
87.5°	39.9	39.9	82.1	188.5	370.4	359.3	68.8	44.4	59.9	53.2	28.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P675206  
 CATALOG NUMBER: CCW-SA-2B-850-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	825.1	825.1	825.1	825.1	825.1	825.1	825.1	825.1	825.1	825.1	825.1
2.5°	827.4	831.8	849.5	862.8	876.2	887.2	905.0	905.0	916.1	916.1	916.1
5°	825.1	849.5	878.4	909.4	929.4	949.4	967.1	969.3	976.0	984.8	987.1
7.5°	834.0	858.4	905.0	949.4	973.7	982.6	1004.8	998.1	998.1	998.1	1004.8
10°	851.8	878.4	942.7	982.6	1000.4	1002.6	995.9	991.5	978.2	973.7	967.1
12.5°	865.1	911.6	976.0	1007.0	1000.4	993.7	978.2	956.0	940.5	936.0	936.0
15°	898.3	944.9	1004.8	1015.9	1004.8	969.3	949.4	925.0	911.6	891.7	900.6
17.5°	927.2	980.4	1033.6	1020.3	998.1	942.7	913.9	878.4	860.6	838.4	838.4
20°	964.9	1013.7	1060.3	1024.8	976.0	916.1	869.5	825.1	800.7	778.6	783.0
22.5°	1007.0	1051.4	1075.8	1007.0	942.7	873.9	809.6	767.5	736.4	723.1	727.5
25°	1040.3	1089.1	1084.7	978.2	902.8	820.7	749.7	709.8	703.1	689.8	689.8
27.5°	1082.4	1133.5	1078.0	942.7	836.2	736.4	692.0	676.5	676.5	669.9	674.3
30°	1137.9	1173.4	1062.5	891.7	751.9	661.0	638.8	647.7	663.2	656.6	658.8
32.5°	1228.8	1224.4	1049.2	834.0	663.2	587.8	603.3	621.1	634.4	641.0	645.5
35°	1317.6	1288.7	1033.6	756.4	581.1	552.3	565.6	585.6	610.0	616.6	618.9
37.5°	1406.3	1355.3	1007.0	661.0	530.1	521.3	534.6	545.7	565.6	570.1	574.5
40°	1499.4	1399.6	960.4	567.8	488.0	488.0	496.9	499.1	510.2	516.8	521.3
42.5°	1581.5	1441.8	876.2	481.3	443.6	459.1	461.4	456.9	448.1	452.5	454.7
45°	1681.3	1488.4	778.6	419.2	410.3	430.3	434.7	417.0	401.5	392.6	388.2
47.5°	1778.9	1537.1	694.3	368.2	379.3	410.3	410.3	390.4	363.8	341.6	332.7
50°	1867.6	1585.9	625.5	337.2	348.2	394.8	399.3	361.6	332.7	306.1	301.7
52.5°	2016.3	1668.0	554.5	312.8	330.5	383.7	381.5	348.2	310.5	281.7	279.5
55°	2147.1	1750.1	461.4	288.4	312.8	368.2	374.9	334.9	283.9	257.3	252.9
57.5°	2242.5	1770.0	368.2	264.0	295.0	350.5	359.3	308.3	266.2	244.0	241.8
60°	2260.3	1692.4	299.4	244.0	270.6	326.1	332.7	292.8	252.9	235.1	230.7
62.5°	2178.2	1543.8	255.1	226.2	250.6	301.7	315.0	275.0	239.6	224.0	221.8
65°	1991.9	1326.4	224.0	210.7	237.3	283.9	299.4	261.7	228.5	215.2	212.9
67.5°	1577.1	1018.1	199.6	199.6	219.6	266.2	288.4	252.9	217.4	208.5	206.3
70°	1031.4	612.2	181.9	184.1	206.3	250.6	275.0	241.8	204.1	201.8	197.4
72.5°	443.6	281.7	161.9	168.6	186.3	224.0	255.1	226.2	188.5	181.9	175.2
75°	204.1	170.8	146.4	150.8	166.4	197.4	230.7	208.5	175.2	164.1	157.5
77.5°	144.2	124.2	122.0	130.9	142.0	170.8	204.1	195.2	161.9	153.0	148.6
80°	106.5	95.4	102.0	110.9	117.6	157.5	193.0	179.7	148.6	135.3	128.7
82.5°	75.4	71.0	79.9	88.7	95.4	137.5	177.4	157.5	124.2	113.1	102.0
85°	44.4	46.6	55.5	59.9	66.5	102.0	148.6	126.4	95.4	73.2	71.0
87.5°	20.0	20.0	26.6	28.8	33.3	59.9	99.8	79.9	59.9	46.6	44.4
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)