

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: P675186

Luminaire Tested: **CCW-SA-2D-835-U-T4FT**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675186  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-835-U-T4FT  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/  
T4FT distribution lens  
Light Source: (32) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

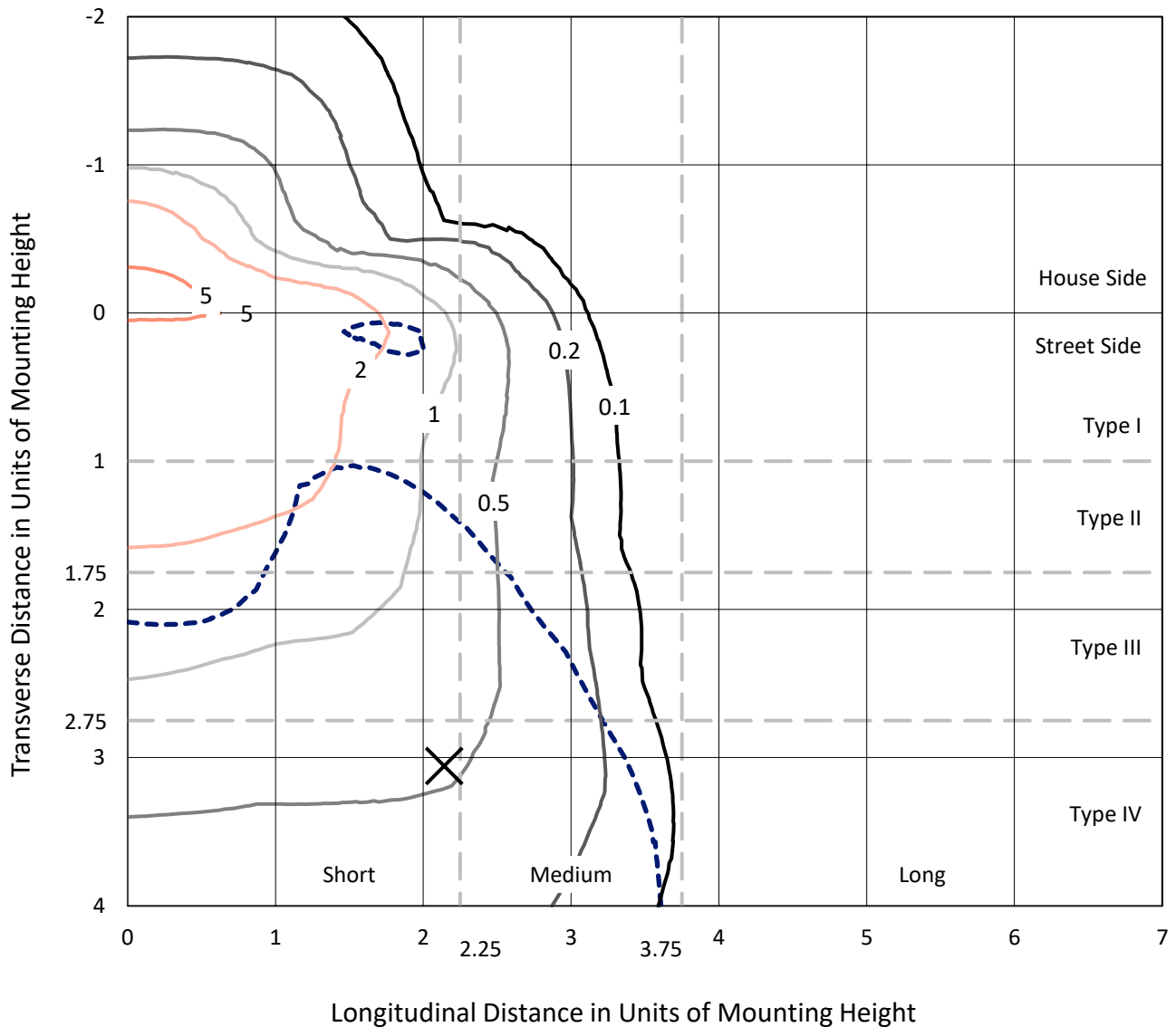
Lumens per Lamp: N/A  
Luminaire Lumens: 9184.2 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 80.8  
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: P675186  
 CATALOG NUMBER: CCW-SA-2D-835-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

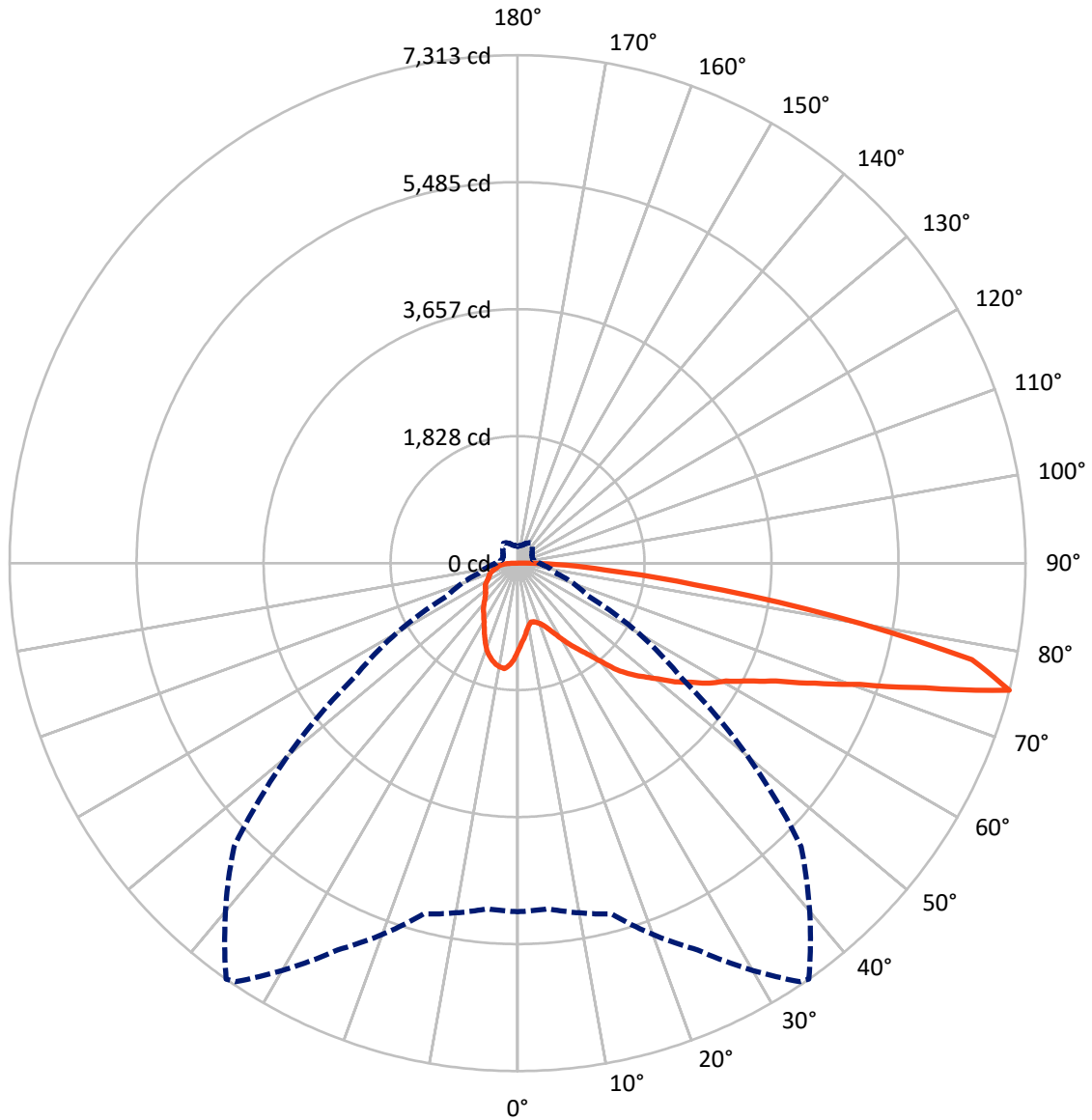
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P675186  
CATALOG NUMBER: CCW-SA-2D-835-U-T4FT

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P675186  
 CATALOG NUMBER: CCW-SA-2D-835-U-T4FT

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2110.8	0.0	2110.8
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	7073.4	0.0	7073.4
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	9184.2	0.0	9184.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.9	1.3
10°-20°	348.0	3.8
20°-30°	577.4	6.3
30°-40°	855.9	9.3
40°-50°	1234.1	13.4
50°-60°	1697.1	18.5
60°-70°	2096.3	22.8
70°-80°	1917.8	20.9
80°-90°	337.6	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°	9184.2	100.0
0°-180°	9184.2	100.0



REPORT NUMBER: P675186

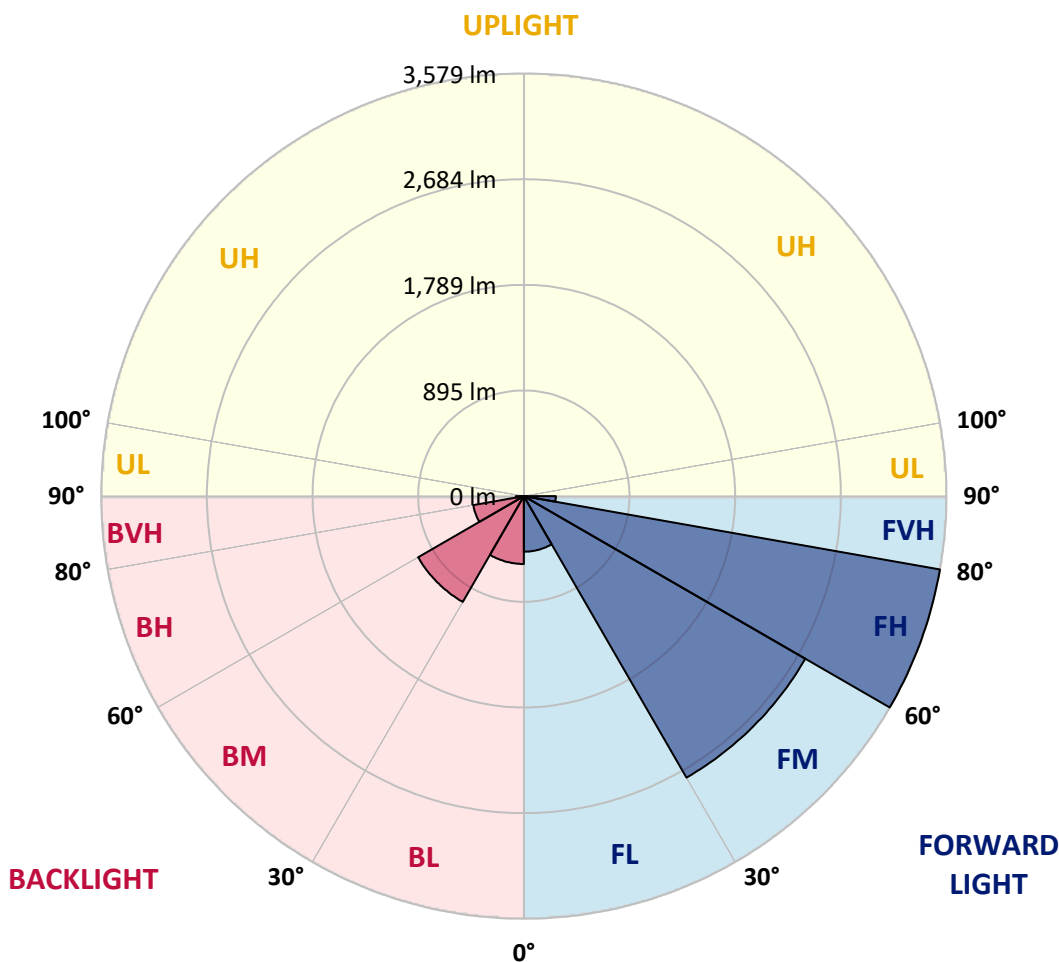
CATALOG NUMBER: CCW-SA-2D-835-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	470.7	5.1			
FM (30°-60°)	2752.9	30.0			
FH (60°-80°)	3578.9	39.0			G2/5000
FVH (80°-90°)	271.0	3.0			G3/500
BL (0°-30°)	574.5	6.3	B2/1000		
BM (30°-60°)	1034.3	11.3	B2/2500		
BH (60°-80°)	435.3	4.7	B1/500		G1/500
BVH (80°-90°)	66.7	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





REPORT NUMBER: P675186

CATALOG NUMBER: CCW-SA-2D-835-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1258.3	1258.3	1258.3	1258.3	1258.3	1258.3	1258.3	1258.3	1258.3	1258.3	1258.3
2.5°	1139.9	1129.8	1139.9	1146.7	1146.7	1146.7	1156.8	1187.3	1207.6	1221.1	1244.8
5°	1021.5	1024.9	1031.7	1048.6	1058.7	1058.7	1082.4	1119.6	1150.1	1194.0	1244.8
7.5°	916.7	923.4	933.6	950.5	974.2	974.2	1008.0	1058.7	1116.2	1173.7	1248.1
10°	862.5	876.1	879.5	882.8	906.5	906.5	957.2	1014.8	1085.8	1160.2	1248.1
12.5°	872.7	872.7	862.5	859.2	872.7	869.3	913.3	980.9	1058.7	1163.6	1261.7
15°	903.1	903.1	882.8	862.5	882.8	876.1	913.3	967.4	1058.7	1167.0	1288.7
17.5°	943.7	947.1	923.4	889.6	896.4	899.7	926.8	977.5	1058.7	1173.7	1325.9
20°	1024.9	1008.0	970.8	916.7	940.3	930.2	970.8	1014.8	1079.0	1200.8	1380.1
22.5°	1095.9	1095.9	1024.9	977.5	980.9	980.9	1018.1	1055.3	1109.5	1238.0	1420.7
25°	1210.9	1204.2	1116.2	1045.2	1052.0	1055.3	1075.6	1119.6	1160.2	1258.3	1471.4
27.5°	1356.4	1339.5	1251.5	1170.3	1143.3	1153.4	1163.6	1197.4	1207.6	1292.1	1532.3
30°	1512.0	1488.3	1413.9	1285.4	1271.8	1275.2	1258.3	1278.6	1265.1	1346.2	1593.2
32.5°	1610.1	1610.1	1539.0	1444.3	1407.1	1407.1	1349.6	1363.1	1363.1	1397.0	1701.4
35°	1694.6	1687.9	1640.5	1569.5	1545.8	1532.3	1474.8	1495.1	1461.2	1495.1	1853.6
37.5°	1823.2	1802.9	1782.6	1735.2	1687.9	1677.7	1647.3	1660.8	1613.5	1596.5	2026.1
40°	1972.0	1961.9	1941.6	1921.3	1873.9	1870.5	1836.7	1850.2	1799.5	1735.2	2198.6
42.5°	2191.9	2161.4	2097.2	2080.2	2090.4	2103.9	2090.4	2066.7	1975.4	1894.2	2384.7
45°	2411.7	2364.4	2242.6	2215.5	2293.3	2283.2	2340.7	2330.5	2181.7	2053.2	2580.9
47.5°	2553.8	2513.2	2415.1	2398.2	2432.0	2445.6	2618.1	2587.6	2350.8	2198.6	2770.3
50°	2655.3	2658.6	2530.1	2574.1	2618.1	2618.1	2834.5	2831.2	2557.2	2377.9	3017.2
52.5°	2804.1	2756.7	2702.6	2743.2	2804.1	2837.9	3105.1	3030.7	2685.7	2530.1	3294.6
55°	2881.9	2861.6	2814.2	2885.3	3013.8	3030.7	3314.9	3257.4	2831.2	2709.4	3578.7
57.5°	2912.3	2929.2	3007.0	3037.5	3216.8	3260.7	3504.3	3423.1	2966.5	2932.6	3798.6
60°	3047.6	3024.0	3128.8	3250.6	3423.1	3446.8	3741.1	3565.2	3098.4	3078.1	3869.6
62.5°	3321.6	3260.7	3318.2	3463.7	3703.8	3734.3	3991.4	3754.6	3155.9	3176.2	3866.2
65°	3720.8	3676.8	3592.2	3707.2	4045.5	4089.4	4285.6	3916.9	3139.0	3142.3	3592.2
67.5°	4190.9	4119.9	4031.9	4103.0	4515.6	4617.1	4644.2	3988.0	3020.6	2952.9	2922.5
70°	4603.6	4556.2	4498.7	4620.5	5195.5	5232.7	5090.7	3944.0	2692.5	2371.1	1948.3
72.5°	4989.2	4965.5	4999.3	5456.0	6115.6	6139.2	5510.1	3666.6	2127.6	1437.6	906.5
75°	5019.6	4996.0	5229.4	6146.0	7269.0	7313.0	5770.6	2875.1	1123.0	585.2	382.2
77.5°	3399.4	3470.4	3906.8	5381.6	6677.1	6687.2	4718.6	1336.1	463.4	345.0	267.2
80°	835.5	926.8	1471.4	2783.8	4502.1	4613.7	2584.2	449.9	304.4	263.8	199.6
82.5°	304.4	331.5	598.7	1258.3	2530.1	2574.1	903.1	243.5	219.9	203.0	145.4
85°	145.4	148.8	284.1	619.0	1278.6	1265.1	324.7	145.4	159.0	138.7	87.9
87.5°	60.9	60.9	125.2	287.5	564.9	548.0	104.9	67.7	91.3	81.2	44.0
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: P675186  
 CATALOG NUMBER: CCW-SA-2D-835-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1258.3	1258.3	1258.3	1258.3	1258.3	1258.3	1258.3	1258.3	1258.3	1258.3	1258.3
2.5°	1261.7	1268.4	1295.5	1315.8	1336.1	1353.0	1380.1	1380.1	1397.0	1397.0	1397.0
5°	1258.3	1295.5	1339.5	1386.8	1417.3	1447.7	1474.8	1478.2	1488.3	1501.8	1505.2
7.5°	1271.8	1309.0	1380.1	1447.7	1484.9	1498.4	1532.3	1522.1	1522.1	1522.1	1532.3
10°	1298.9	1339.5	1437.6	1498.4	1525.5	1528.9	1518.7	1512.0	1491.7	1484.9	1474.8
12.5°	1319.2	1390.2	1488.3	1535.7	1525.5	1515.4	1491.7	1457.9	1434.2	1427.4	1427.4
15°	1369.9	1440.9	1532.3	1549.2	1532.3	1478.2	1447.7	1410.5	1390.2	1359.8	1373.3
17.5°	1413.9	1495.1	1576.2	1556.0	1522.1	1437.6	1393.6	1339.5	1312.4	1278.6	1278.6
20°	1471.4	1545.8	1616.8	1562.7	1488.3	1397.0	1325.9	1258.3	1221.1	1187.3	1194.0
22.5°	1535.7	1603.3	1640.5	1535.7	1437.6	1332.7	1234.6	1170.3	1123.0	1102.7	1109.5
25°	1586.4	1660.8	1654.0	1491.7	1376.7	1251.5	1143.3	1082.4	1072.3	1052.0	1052.0
27.5°	1650.7	1728.5	1643.9	1437.6	1275.2	1123.0	1055.3	1031.7	1031.7	1021.5	1028.3
30°	1735.2	1789.3	1620.2	1359.8	1146.7	1008.0	974.2	987.7	1011.4	1001.2	1004.6
32.5°	1873.9	1867.1	1599.9	1271.8	1011.4	896.4	920.0	947.1	967.4	977.5	984.3
35°	2009.2	1965.2	1576.2	1153.4	886.2	842.2	862.5	893.0	930.2	940.3	943.7
37.5°	2144.5	2066.7	1535.7	1008.0	808.4	794.9	815.2	832.1	862.5	869.3	876.1
40°	2286.6	2134.4	1464.6	865.9	744.2	744.2	757.7	761.1	778.0	788.1	794.9
42.5°	2411.7	2198.6	1336.1	734.0	676.5	700.2	703.6	696.8	683.3	690.0	693.4
45°	2563.9	2269.7	1187.3	639.3	625.8	656.2	663.0	635.9	612.2	598.7	591.9
47.5°	2712.8	2344.1	1058.7	561.5	578.4	625.8	625.8	595.3	554.7	520.9	507.4
50°	2848.1	2418.5	953.9	514.1	531.1	602.1	608.9	551.3	507.4	466.8	460.0
52.5°	3074.7	2543.6	845.6	476.9	504.0	585.2	581.8	531.1	473.6	429.6	426.2
55°	3274.3	2668.8	703.6	439.7	476.9	561.5	571.6	510.8	433.0	392.4	385.6
57.5°	3419.7	2699.2	561.5	402.5	449.9	534.4	548.0	470.2	405.9	372.1	368.7
60°	3446.8	2580.9	456.6	372.1	412.7	497.2	507.4	446.5	385.6	358.5	351.8
62.5°	3321.6	2354.2	389.0	345.0	382.2	460.0	480.3	419.4	365.3	341.6	338.3
65°	3037.5	2022.7	341.6	321.3	361.9	433.0	456.6	399.1	348.4	328.1	324.7
67.5°	2405.0	1552.6	304.4	304.4	334.9	405.9	439.7	385.6	331.5	318.0	314.6
70°	1572.9	933.6	277.4	280.7	314.6	382.2	419.4	368.7	311.2	307.8	301.0
72.5°	676.5	429.6	246.9	257.1	284.1	341.6	389.0	345.0	287.5	277.4	267.2
75°	311.2	260.5	223.2	230.0	253.7	301.0	351.8	318.0	267.2	250.3	240.2
77.5°	219.9	189.4	186.0	199.6	216.5	260.5	311.2	297.7	246.9	233.4	226.6
80°	162.4	145.4	155.6	169.1	179.3	240.2	294.3	274.0	226.6	206.3	196.2
82.5°	115.0	108.2	121.8	135.3	145.4	209.7	270.6	240.2	189.4	172.5	155.6
85°	67.7	71.0	84.6	91.3	101.5	155.6	226.6	192.8	145.4	111.6	108.2
87.5°	30.4	30.4	40.6	44.0	50.7	91.3	152.2	121.8	91.3	71.0	67.7
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)