

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: P675209

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675209  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-850-U-T4FT  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/  
T4FT distribution lens  
Light Source: (32) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

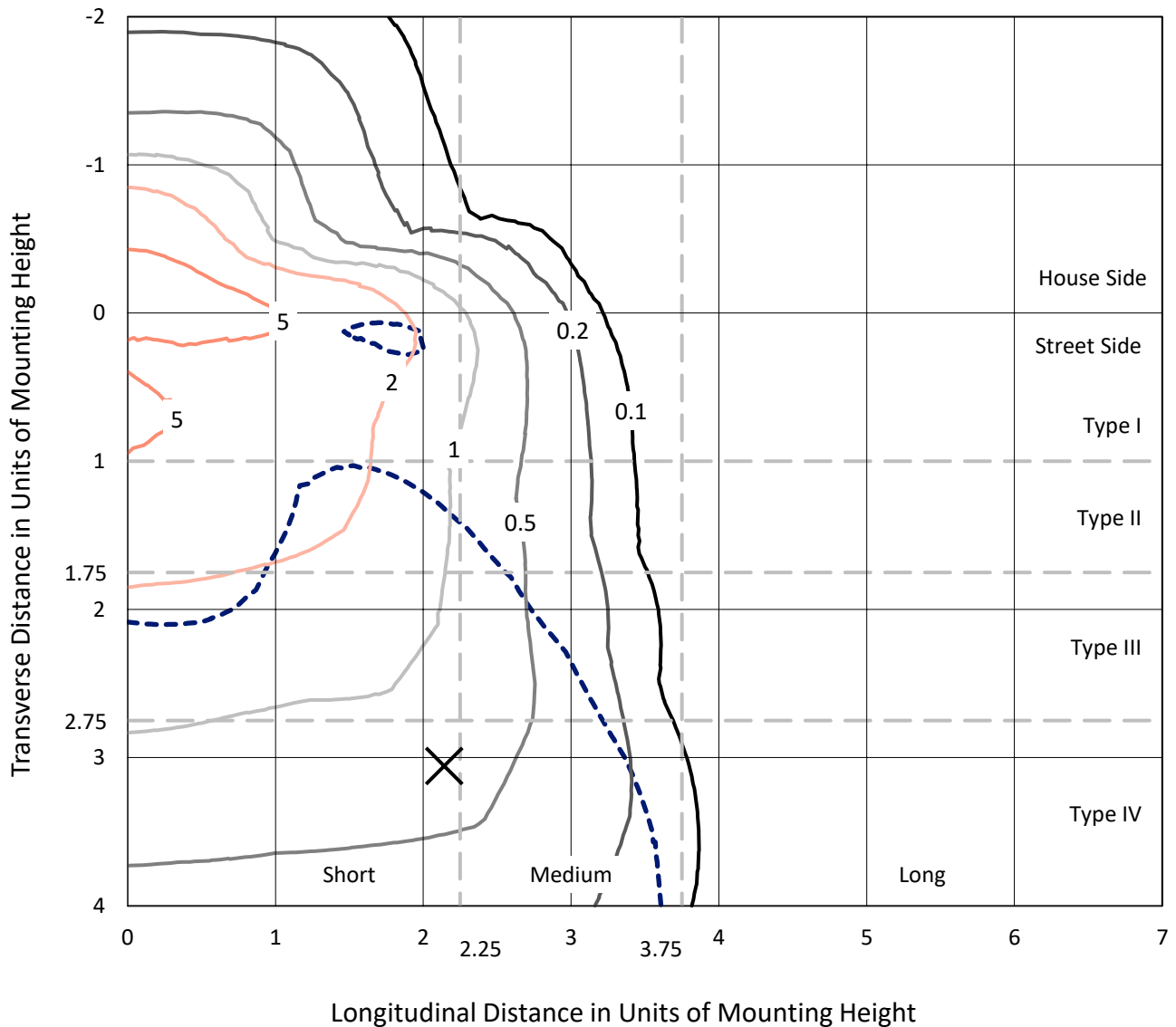
Lumens per Lamp: N/A  
Luminaire Lumens: 11923.7 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 106.6  
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

REPORT NUMBER: P675209  
 CATALOG NUMBER: CCW-SA-2E-850-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

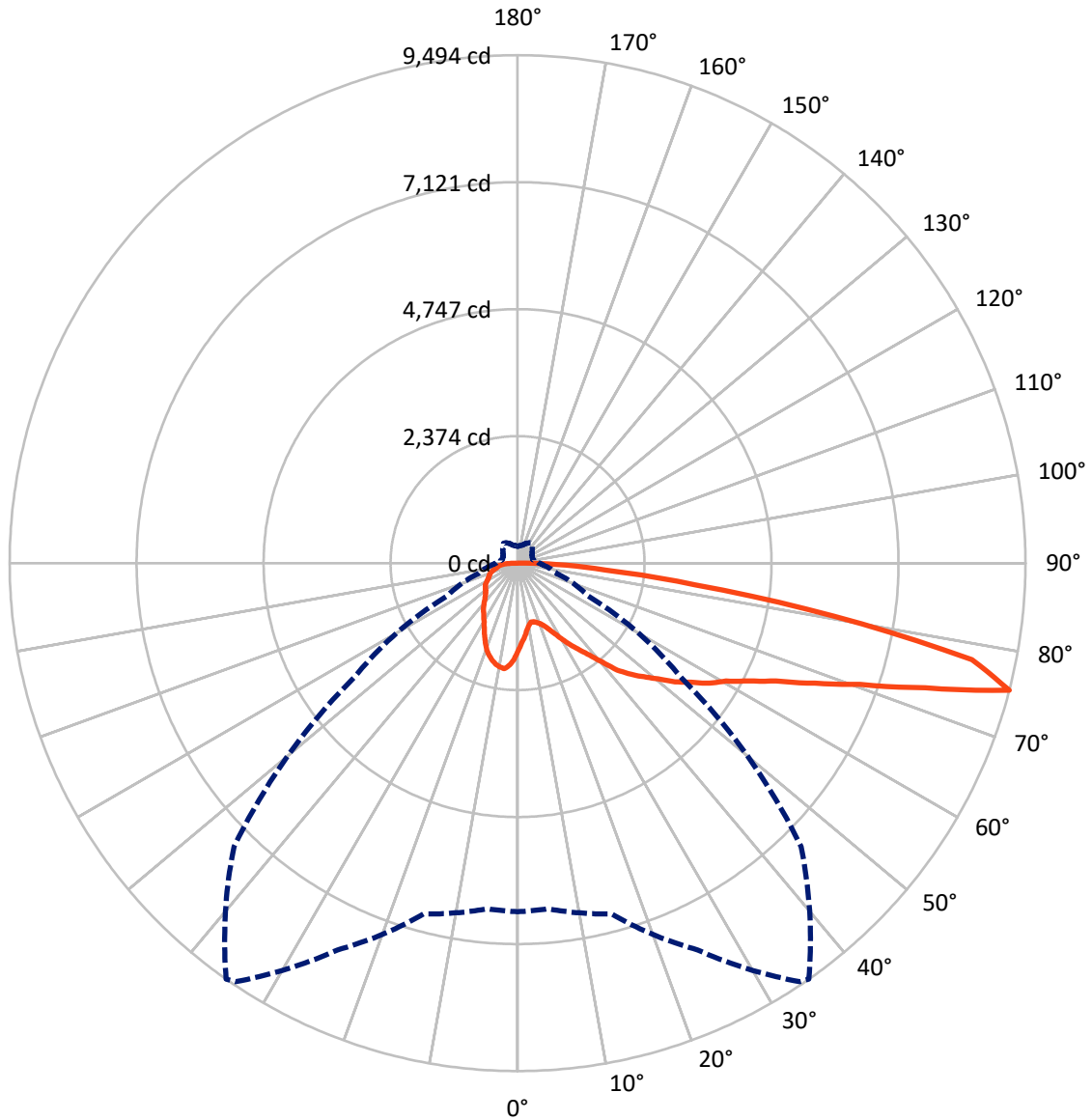
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P675209  
CATALOG NUMBER: CCW-SA-2E-850-U-T4FT

### Luminous Intensity Polar Plot



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

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

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2740.4	0.0	2740.4
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	9183.3	0.0	9183.3
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	11923.7	0.0	11923.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.6	1.3
10°-20°	451.8	3.8
20°-30°	749.6	6.3
30°-40°	1111.2	9.3
40°-50°	1602.3	13.4
50°-60°	2203.4	18.5
60°-70°	2721.6	22.8
70°-80°	2489.9	20.9
80°-90°	438.3	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°	11923.7	100.0
0°-180°	11923.7	100.0



REPORT NUMBER: P675209

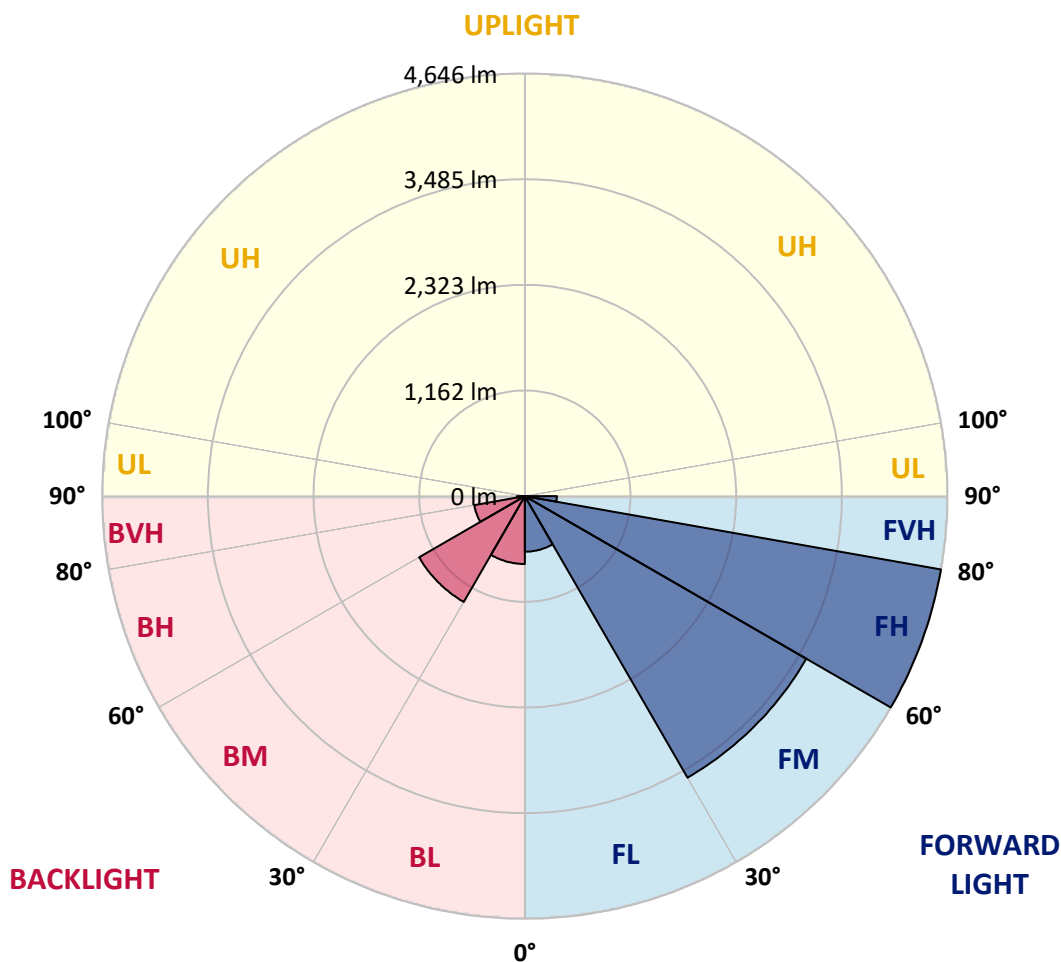
CATALOG NUMBER: CCW-SA-2E-850-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	611.2	5.1			
FM (30°-60°)	3574.0	30.0			
FH (60°-80°)	4646.4	39.0			G2/5000
FVH (80°-90°)	351.8	3.0			G3/500
BL (0°-30°)	745.9	6.3	B2/1000		
BM (30°-60°)	1342.9	11.3	B2/2500		
BH (60°-80°)	565.1	4.7	B2/1000		G2/1000
BVH (80°-90°)	86.6	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: P675209

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

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6
2.5°	1479.9	1466.7	1479.9	1488.7	1488.7	1488.7	1501.9	1541.4	1567.8	1585.3	1616.1
5°	1326.2	1330.6	1339.4	1361.4	1374.5	1383.3	1405.3	1453.6	1493.1	1550.2	1616.1
7.5°	1190.1	1198.9	1212.0	1234.0	1264.7	1260.3	1308.7	1374.5	1449.2	1523.8	1620.4
10°	1119.8	1137.4	1141.8	1146.2	1176.9	1176.9	1242.8	1317.4	1409.7	1506.3	1620.4
12.5°	1133.0	1133.0	1119.8	1115.4	1133.0	1128.6	1185.7	1273.5	1374.5	1510.7	1638.0
15°	1172.5	1172.5	1146.2	1119.8	1146.2	1137.4	1185.7	1256.0	1374.5	1515.1	1673.1
17.5°	1225.2	1229.6	1198.9	1155.0	1163.7	1168.1	1203.3	1269.1	1374.5	1523.8	1721.5
20°	1330.6	1308.7	1260.3	1190.1	1220.8	1207.7	1260.3	1317.4	1400.9	1559.0	1791.7
22.5°	1422.8	1422.8	1330.6	1269.1	1273.5	1273.5	1321.8	1370.1	1440.4	1607.3	1844.4
25°	1572.1	1563.4	1449.2	1357.0	1365.7	1370.1	1396.5	1453.6	1506.3	1633.6	1910.3
27.5°	1761.0	1739.0	1624.8	1519.4	1484.3	1497.5	1510.7	1554.6	1567.8	1677.5	1989.3
30°	1963.0	1932.2	1835.6	1668.8	1651.2	1655.6	1633.6	1660.0	1642.4	1747.8	2068.4
32.5°	2090.3	2090.3	1998.1	1875.2	1826.8	1826.8	1752.2	1769.8	1769.8	1813.7	2208.9
35°	2200.1	2191.3	2129.9	2037.6	2006.9	1989.3	1914.7	1941.0	1897.1	1941.0	2406.5
37.5°	2367.0	2340.6	2314.3	2252.8	2191.3	2178.2	2138.6	2156.2	2094.7	2072.8	2630.5
40°	2560.2	2547.0	2520.7	2494.3	2432.9	2428.5	2384.6	2402.1	2336.3	2252.8	2854.4
42.5°	2845.7	2806.1	2722.7	2700.7	2713.9	2731.5	2713.9	2683.2	2564.6	2459.2	3096.0
45°	3131.1	3069.6	2911.5	2876.4	2977.4	2964.2	3038.9	3025.7	2832.5	2665.6	3350.7
47.5°	3315.6	3262.9	3135.5	3113.5	3157.5	3175.0	3399.0	3359.5	3052.1	2854.4	3596.6
50°	3447.3	3451.7	3284.8	3341.9	3399.0	3399.0	3680.0	3675.7	3319.9	3087.2	3917.2
52.5°	3640.5	3579.0	3508.8	3561.5	3640.5	3684.4	4031.4	3934.7	3486.8	3284.8	4277.3
55°	3741.5	3715.2	3653.7	3745.9	3912.8	3934.7	4303.6	4229.0	3675.7	3517.6	4646.2
57.5°	3781.0	3803.0	3904.0	3943.5	4176.3	4233.4	4549.6	4444.2	3851.3	3807.4	4931.6
60°	3956.7	3926.0	4062.1	4220.2	4444.2	4474.9	4857.0	4628.6	4022.6	3996.2	5023.8
62.5°	4312.4	4233.4	4308.0	4496.9	4808.6	4848.2	5181.9	4874.5	4097.2	4123.6	5019.4
65°	4830.6	4773.5	4663.7	4813.0	5252.2	5309.3	5564.0	5085.3	4075.3	4079.7	4663.7
67.5°	5441.0	5348.8	5234.6	5326.8	5862.6	5994.3	6029.5	5177.5	3921.6	3833.7	3794.2
70°	5976.8	5915.3	5840.6	5998.7	6745.3	6793.6	6609.1	5120.4	3495.6	3078.4	2529.5
72.5°	6477.4	6446.7	6490.6	7083.4	7939.8	7970.5	7153.7	4760.3	2762.2	1866.4	1176.9
75°	6516.9	6486.2	6789.2	7979.3	9437.2	9494.3	7491.8	3732.7	1458.0	759.7	496.2
77.5°	4413.4	4505.6	5072.1	6986.8	8668.7	8681.9	6126.1	1734.6	601.6	447.9	346.9
80°	1084.7	1203.3	1910.3	3614.2	5845.0	5990.0	3355.1	584.1	395.2	342.5	259.1
82.5°	395.2	430.4	777.3	1633.6	3284.8	3341.9	1172.5	316.2	285.4	263.5	188.8
85°	188.8	193.2	368.9	803.6	1660.0	1642.4	421.6	188.8	206.4	180.0	114.2
87.5°	79.0	79.0	162.5	373.3	733.4	711.4	136.1	87.8	118.6	105.4	57.1
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: P675209  
 CATALOG NUMBER: CCW-SA-2E-850-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6
2.5°	1638.0	1646.8	1681.9	1708.3	1734.6	1756.6	1791.7	1791.7	1813.7	1813.7	1813.7
5°	1633.6	1681.9	1739.0	1800.5	1840.0	1879.5	1914.7	1919.1	1932.2	1949.8	1954.2
7.5°	1651.2	1699.5	1791.7	1879.5	1927.9	1945.4	1989.3	1976.2	1976.2	1976.2	1989.3
10°	1686.3	1739.0	1866.4	1945.4	1980.5	1984.9	1971.8	1963.0	1936.6	1927.9	1914.7
12.5°	1712.7	1804.9	1932.2	1993.7	1980.5	1967.4	1936.6	1892.7	1862.0	1853.2	1853.2
15°	1778.5	1870.8	1989.3	2011.3	1989.3	1919.1	1879.5	1831.2	1804.9	1765.4	1782.9
17.5°	1835.6	1941.0	2046.4	2020.1	1976.2	1866.4	1809.3	1739.0	1703.9	1660.0	1660.0
20°	1910.3	2006.9	2099.1	2028.9	1932.2	1813.7	1721.5	1633.6	1585.3	1541.4	1550.2
22.5°	1993.7	2081.6	2129.9	1993.7	1866.4	1730.2	1602.9	1519.4	1458.0	1431.6	1440.4
25°	2059.6	2156.2	2147.4	1936.6	1787.3	1624.8	1484.3	1405.3	1392.1	1365.7	1365.7
27.5°	2143.0	2244.0	2134.2	1866.4	1655.6	1458.0	1370.1	1339.4	1339.4	1326.2	1335.0
30°	2252.8	2323.1	2103.5	1765.4	1488.7	1308.7	1264.7	1282.3	1313.0	1299.9	1304.3
32.5°	2432.9	2424.1	2077.2	1651.2	1313.0	1163.7	1194.5	1229.6	1256.0	1269.1	1277.9
35°	2608.5	2551.4	2046.4	1497.5	1150.6	1093.5	1119.8	1159.3	1207.7	1220.8	1225.2
37.5°	2784.2	2683.2	1993.7	1308.7	1049.6	1032.0	1058.3	1080.3	1119.8	1128.6	1137.4
40°	2968.6	2771.0	1901.5	1124.2	966.1	966.1	983.7	988.1	1010.0	1023.2	1032.0
42.5°	3131.1	2854.4	1734.6	952.9	878.3	909.0	913.4	904.6	887.1	895.9	900.2
45°	3328.7	2946.7	1541.4	830.0	812.4	851.9	860.7	825.6	794.9	777.3	768.5
47.5°	3522.0	3043.3	1374.5	729.0	750.9	812.4	812.4	772.9	720.2	676.3	658.7
50°	3697.6	3139.9	1238.4	667.5	689.5	781.7	790.5	715.8	658.7	606.0	597.2
52.5°	3991.8	3302.4	1097.9	619.2	654.3	759.7	755.3	689.5	614.8	557.7	553.3
55°	4250.9	3464.9	913.4	570.9	619.2	729.0	742.2	663.1	562.1	509.4	500.6
57.5°	4439.8	3504.4	729.0	522.6	584.1	693.9	711.4	610.4	527.0	483.1	478.7
60°	4474.9	3350.7	592.8	483.1	535.8	645.5	658.7	579.7	500.6	465.5	456.7
62.5°	4312.4	3056.5	505.0	447.9	496.2	597.2	623.6	544.5	474.3	443.5	439.1
65°	3943.5	2626.1	443.5	417.2	469.9	562.1	592.8	518.2	452.3	426.0	421.6
67.5°	3122.3	2015.7	395.2	395.2	434.8	527.0	570.9	500.6	430.4	412.8	408.4
70°	2042.0	1212.0	360.1	364.5	408.4	496.2	544.5	478.7	404.0	399.6	390.8
72.5°	878.3	557.7	320.6	333.8	368.9	443.5	505.0	447.9	373.3	360.1	346.9
75°	404.0	338.1	289.8	298.6	329.4	390.8	456.7	412.8	346.9	325.0	311.8
77.5°	285.4	245.9	241.5	259.1	281.1	338.1	404.0	386.4	320.6	303.0	294.2
80°	210.8	188.8	202.0	219.6	232.7	311.8	382.1	355.7	294.2	267.9	254.7
82.5°	149.3	140.5	158.1	175.7	188.8	272.3	351.3	311.8	245.9	224.0	202.0
85°	87.8	92.2	109.8	118.6	131.7	202.0	294.2	250.3	188.8	144.9	140.5
87.5°	39.5	39.5	52.7	57.1	65.9	118.6	197.6	158.1	118.6	92.2	87.8
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)