

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: P675042

Luminaire Tested: **CCW-SA-2D-835-U-T3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675042  
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-T3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/  
T3 distribution lens  
Light Source: (32) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

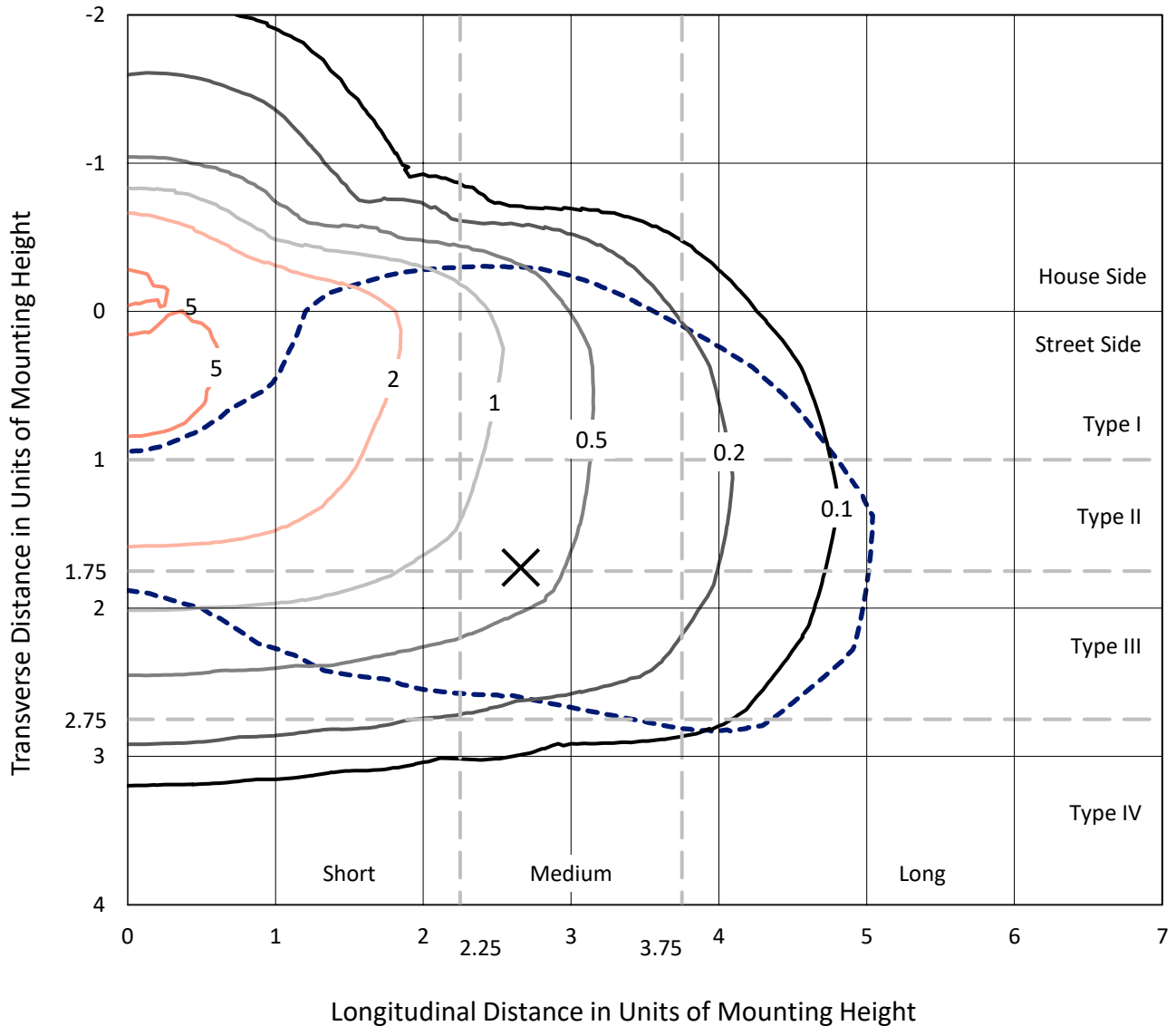
Lumens per Lamp: N/A  
Luminaire Lumens: 9285.3 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2

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

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### Iso-Footcandle Lines of Horizontal Illumination

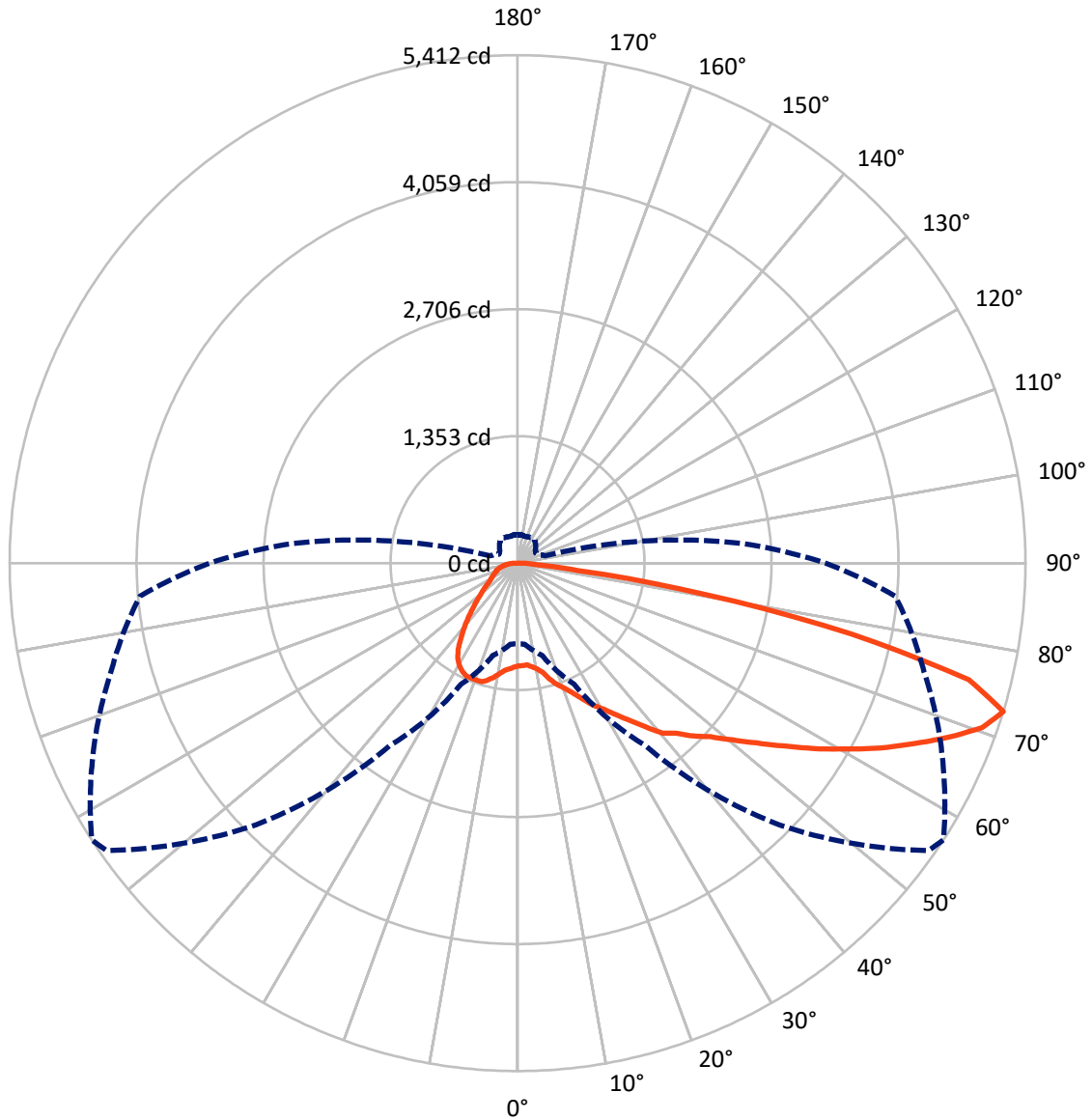
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2168.5	0.0	2168.5
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	7116.9	0.0	7116.9
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	9285.3	0.0	9285.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.8	1.2
10°-20°	366.6	3.9
20°-30°	670.2	7.2
30°-40°	983.3	10.6
40°-50°	1353.9	14.6
50°-60°	1856.6	20.0
60°-70°	2238.0	24.1
70°-80°	1490.8	16.1
80°-90°	217.1	2.3
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°	9285.3	100.0
0°-180°	9285.3	100.0



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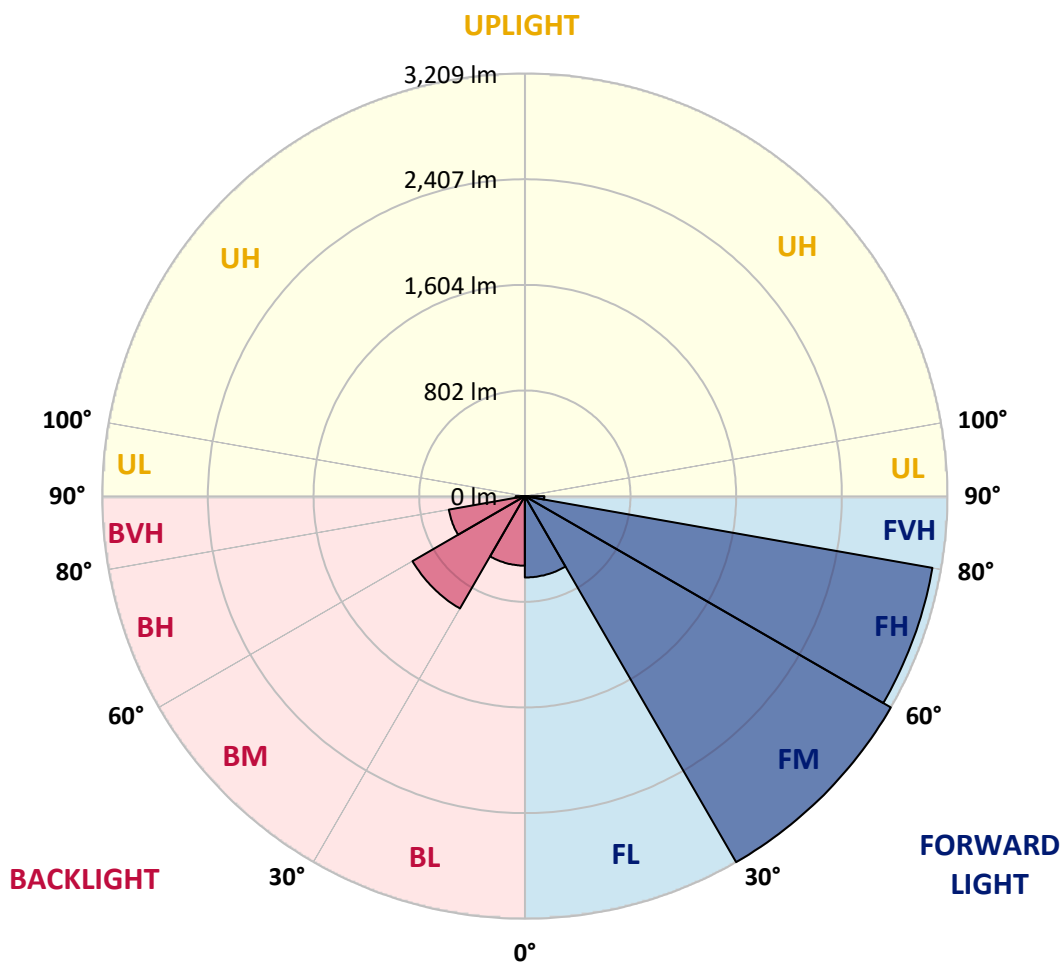
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	617.7	6.7			
FM (30°-60°)	3208.8	34.6			
FH (60°-80°)	3142.5	33.8			G2/5000
FVH (80°-90°)	147.9	1.6			G2/225
BL (0°-30°)	528.0	5.7	B2/1000		
BM (30°-60°)	984.9	10.6	B1/1000		
BH (60°-80°)	586.3	6.3	B2/1000		G2/1000
BVH (80°-90°)	69.3	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-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1096.0	1096.0	1096.0	1096.0	1096.0	1096.0	1096.0	1096.0	1096.0	1096.0	1096.0
2.5°	1075.7	1079.1	1085.8	1082.4	1082.4	1072.3	1089.2	1092.6	1085.8	1089.2	1096.0
5°	1075.7	1082.4	1092.6	1085.8	1089.2	1085.8	1079.1	1089.2	1089.2	1092.6	1102.7
7.5°	1133.2	1129.8	1129.8	1119.6	1116.3	1112.9	1116.3	1116.3	1109.5	1112.9	1112.9
10°	1197.4	1197.4	1190.7	1190.7	1183.9	1167.0	1150.1	1146.7	1136.6	1139.9	1139.9
12.5°	1265.1	1271.9	1278.6	1258.3	1251.6	1224.5	1214.4	1194.1	1194.1	1187.3	1183.9
15°	1349.7	1339.5	1346.3	1339.5	1322.6	1295.5	1278.6	1282.0	1258.3	1251.6	1241.4
17.5°	1424.1	1427.5	1417.3	1410.5	1380.1	1359.8	1363.2	1359.8	1329.4	1319.2	1302.3
20°	1512.0	1508.6	1508.6	1488.3	1461.3	1434.2	1424.1	1420.7	1427.5	1407.2	1366.6
22.5°	1603.4	1589.8	1589.8	1572.9	1535.7	1518.8	1512.0	1498.5	1505.3	1488.3	1427.5
25°	1677.8	1677.8	1701.5	1667.6	1647.3	1613.5	1600.0	1603.4	1606.7	1572.9	1501.9
27.5°	1775.9	1759.0	1782.6	1765.7	1755.6	1718.4	1701.5	1711.6	1704.8	1667.6	1569.5
30°	1901.0	1904.4	1890.9	1867.2	1853.7	1826.6	1816.5	1806.3	1816.5	1769.1	1643.9
32.5°	2056.6	2066.8	2032.9	2005.9	1982.2	1955.1	1934.9	1924.7	1934.9	1863.8	1701.5
35°	2235.9	2246.1	2219.0	2188.5	2161.5	2093.8	2076.9	2060.0	2022.8	1907.8	1755.6
37.5°	2401.7	2388.1	2381.4	2381.4	2330.6	2232.5	2222.4	2212.2	2141.2	1995.7	1830.0
40°	2513.3	2530.2	2523.4	2516.7	2509.9	2418.6	2398.3	2381.4	2263.0	2127.7	1934.9
42.5°	2638.4	2628.3	2655.3	2665.5	2641.8	2614.8	2533.6	2476.1	2371.2	2263.0	2090.5
45°	2787.3	2780.5	2790.7	2827.9	2794.0	2804.2	2668.9	2628.3	2496.4	2432.1	2286.6
47.5°	2919.2	2936.1	2986.8	2997.0	2969.9	3017.3	2827.9	2763.6	2679.0	2628.3	2489.6
50°	2976.7	2997.0	3112.0	3183.0	3186.4	3260.8	2986.8	2959.8	2844.8	2865.1	2743.3
52.5°	2929.3	2993.6	3132.3	3318.3	3433.3	3507.8	3196.6	3183.0	3078.2	3142.4	3020.7
55°	2973.3	3034.2	3125.5	3386.0	3676.9	3693.8	3487.5	3436.7	3331.9	3419.8	3308.2
57.5°	2993.6	2959.8	3132.3	3460.4	3856.2	3900.1	3764.8	3727.6	3646.4	3731.0	3666.7
60°	2834.6	2875.2	3037.6	3440.1	3866.3	4120.0	4076.0	4021.9	3947.5	4025.3	3988.1
62.5°	2655.3	2682.4	2858.3	3318.3	3923.8	4279.0	4377.1	4336.5	4231.6	4299.3	4363.6
65°	2428.7	2432.1	2628.3	3101.8	3812.2	4370.3	4640.9	4637.6	4563.1	4546.2	4647.7
67.5°	2151.3	2178.4	2334.0	2871.8	3660.0	4471.8	4901.4	4952.1	4803.3	4671.4	4708.6
70°	1650.7	1677.8	1826.6	2354.3	3348.8	4441.4	5222.7	5249.8	4958.9	4624.0	4529.3
72.5°	859.2	865.9	1018.2	1420.7	2374.6	3944.1	5341.1	5412.2	4999.5	4485.3	4038.8
75°	284.1	284.1	348.4	541.2	1119.6	2523.4	4837.1	4965.7	4799.9	4140.3	3304.8
77.5°	169.1	172.5	206.3	270.6	446.5	1008.0	3409.7	3636.3	3927.2	3521.3	2415.2
80°	121.8	125.2	155.6	186.0	267.2	324.7	1711.6	2026.2	2411.8	2266.3	1288.8
82.5°	91.3	91.3	121.8	138.7	182.7	192.8	476.9	652.8	1041.8	811.8	355.2
85°	94.7	94.7	94.7	98.1	125.2	111.6	199.6	213.1	304.4	267.2	98.1
87.5°	33.8	37.2	94.7	64.3	64.3	47.4	77.8	84.6	108.2	111.6	37.2
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°	1096.0	1096.0	1096.0	1096.0	1096.0	1096.0	1096.0	1096.0	1096.0	1096.0	1096.0
2.5°	1099.3	1099.3	1102.7	1102.7	1109.5	1116.3	1126.4	1119.6	1119.6	1123.0	1119.6
5°	1096.0	1099.3	1109.5	1126.4	1133.2	1136.6	1156.9	1156.9	1156.9	1163.6	1163.6
7.5°	1109.5	1116.3	1133.2	1150.1	1153.5	1163.6	1190.7	1197.4	1214.4	1221.1	1224.5
10°	1143.3	1153.5	1167.0	1187.3	1200.8	1214.4	1234.7	1258.3	1254.9	1275.2	1278.6
12.5°	1194.1	1190.7	1214.4	1234.7	1248.2	1268.5	1275.2	1275.2	1275.2	1275.2	1282.0
15°	1234.7	1241.4	1261.7	1275.2	1292.2	1288.8	1275.2	1261.7	1265.1	1261.7	1261.7
17.5°	1295.5	1295.5	1312.5	1315.8	1322.6	1288.8	1268.5	1268.5	1278.6	1278.6	1271.9
20°	1356.4	1353.0	1359.8	1356.4	1312.5	1271.9	1268.5	1271.9	1275.2	1271.9	1268.5
22.5°	1413.9	1407.2	1397.0	1383.5	1305.7	1268.5	1261.7	1244.8	1227.9	1227.9	1217.7
25°	1464.7	1457.9	1430.8	1390.3	1302.3	1248.2	1214.4	1173.8	1153.5	1143.3	1156.9
27.5°	1512.0	1498.5	1461.3	1390.3	1271.9	1194.1	1129.8	1079.1	1062.1	1048.6	1062.1
30°	1576.3	1552.6	1501.9	1380.1	1224.5	1109.5	1021.5	960.7	943.7	923.5	930.2
32.5°	1633.8	1579.7	1535.7	1349.7	1163.6	1014.8	913.3	852.4	822.0	805.1	818.6
35°	1694.7	1640.6	1549.2	1302.3	1068.9	899.8	798.3	740.8	717.1	693.4	693.4
37.5°	1755.6	1725.1	1569.5	1214.4	953.9	791.5	700.2	656.2	615.6	571.7	571.7
40°	1884.1	1843.5	1593.2	1112.9	838.9	686.7	622.4	564.9	524.3	463.4	460.0
42.5°	2019.4	1931.5	1593.2	991.1	737.4	612.3	551.4	490.5	416.1	378.9	382.2
45°	2191.9	2090.5	1549.2	882.9	635.9	551.4	483.7	405.9	372.1	348.4	348.4
47.5°	2408.4	2249.4	1495.1	764.5	554.7	497.2	412.7	365.3	341.6	321.3	318.0
50°	2665.5	2394.9	1427.5	663.0	487.1	446.5	375.5	338.3	318.0	304.4	304.4
52.5°	2936.1	2608.0	1380.1	571.7	433.0	378.9	348.4	324.7	307.8	297.7	294.3
55°	3210.1	2821.1	1346.3	473.6	382.2	348.4	341.6	321.3	314.6	304.4	297.7
57.5°	3517.9	2997.0	1339.5	405.9	341.6	334.9	348.4	331.5	321.3	311.2	301.1
60°	3849.4	3233.8	1278.6	351.8	321.3	328.1	338.3	321.3	314.6	304.4	297.7
62.5°	4177.5	3409.7	1112.9	311.2	301.1	307.8	321.3	307.8	297.7	301.1	304.4
65°	4312.8	3423.2	862.6	280.8	277.4	280.8	301.1	297.7	287.5	307.8	307.8
67.5°	4177.5	3301.4	608.9	253.7	253.7	270.6	304.4	311.2	301.1	328.1	324.7
70°	3869.7	3000.4	412.7	236.8	243.5	287.5	314.6	307.8	294.3	328.1	321.3
72.5°	3284.5	2401.7	301.1	219.9	230.0	274.0	311.2	304.4	294.3	307.8	294.3
75°	2465.9	1708.2	236.8	199.6	203.0	246.9	321.3	304.4	277.4	270.6	260.5
77.5°	1647.3	1055.4	182.7	175.9	175.9	216.5	307.8	284.1	250.3	240.2	236.8
80°	784.8	422.8	145.5	148.8	152.2	186.0	280.8	253.7	226.6	213.1	213.1
82.5°	250.3	159.0	121.8	121.8	121.8	152.2	233.4	213.1	196.2	186.0	169.1
85°	87.9	87.9	104.9	108.2	98.1	111.6	192.8	182.7	162.4	135.3	131.9
87.5°	33.8	50.7	71.0	84.6	60.9	77.8	138.7	128.5	118.4	87.9	84.6
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)