

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: P676637

Luminaire Tested: **CCW-SA-2D-840-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676637
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-840-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T4FT distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

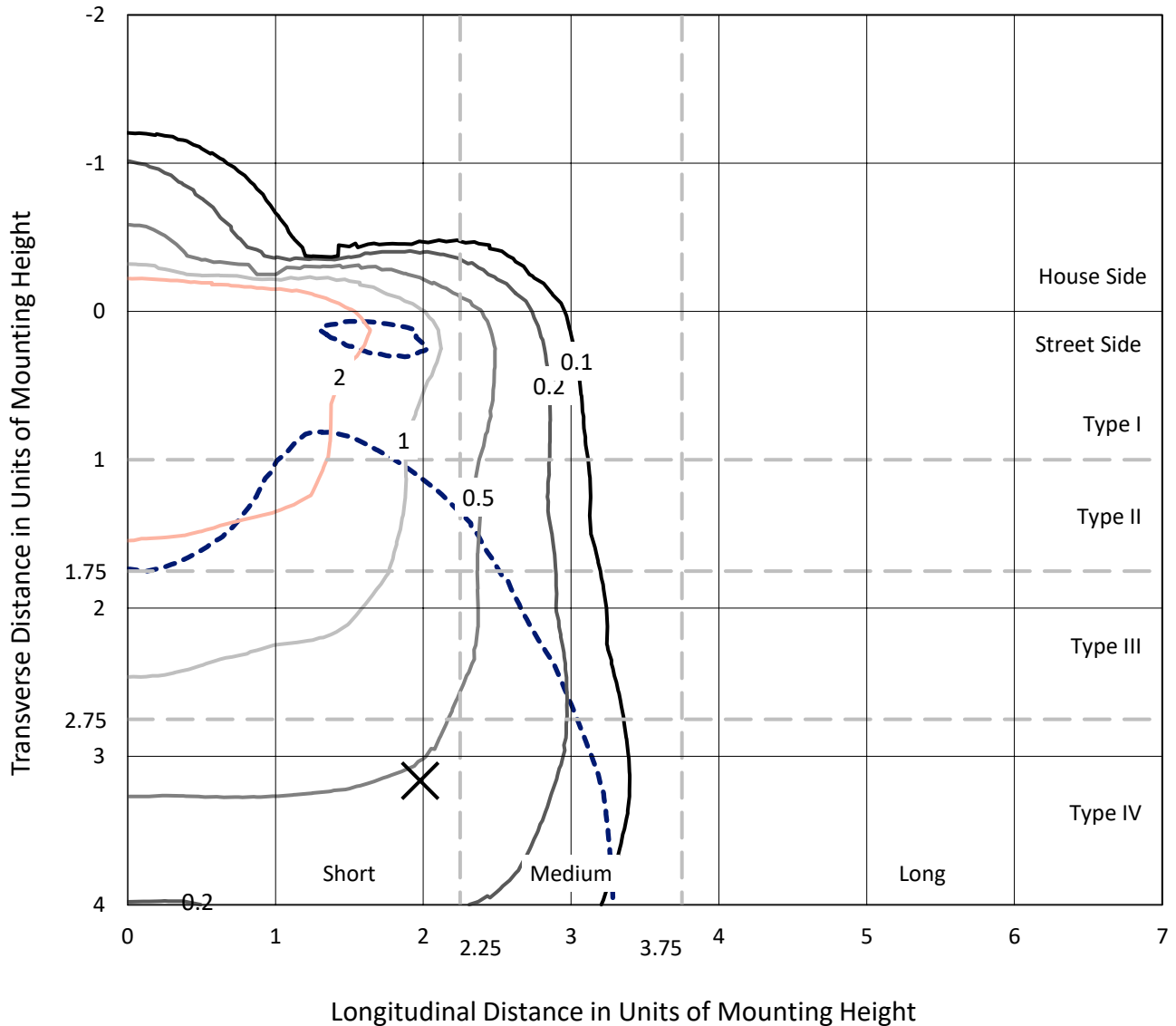
Lumens per Lamp: N/A
Luminaire Lumens: 6827.7 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

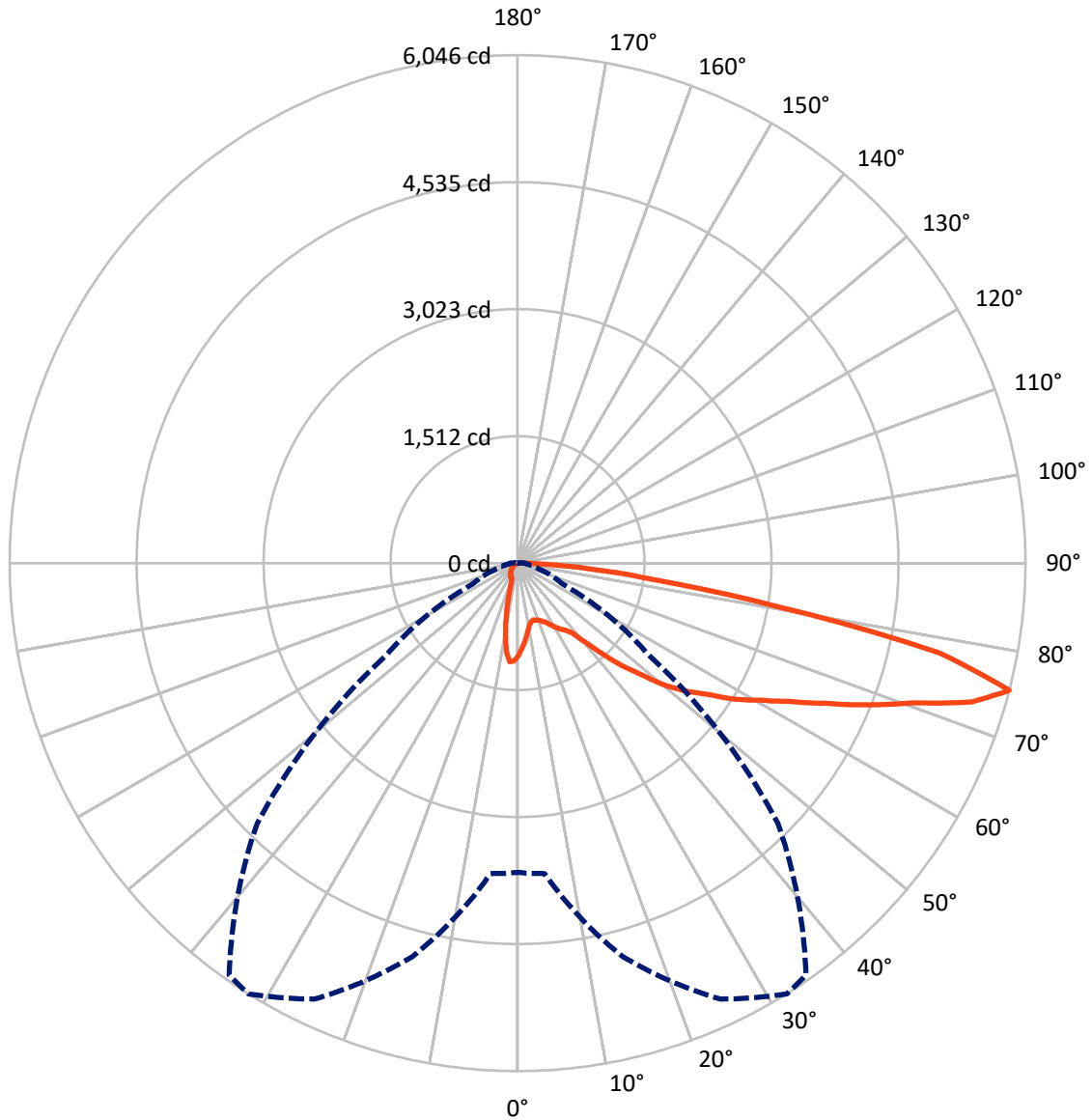
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	737.6	0.0	737.6
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	6090.2	0.0	6090.2
	% Fixture	89.2	0.0	89.2
Total	Lumens	6827.7	0.0	6827.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	1.4
10°-20°	219.9	3.2
20°-30°	329.3	4.8
30°-40°	505.5	7.4
40°-50°	884.1	12.9
50°-60°	1381.9	20.2
60°-70°	1786.6	26.2
70°-80°	1455.1	21.3
80°-90°	168.4	2.5
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°	6827.7	100.0
0°-180°	6827.7	100.0



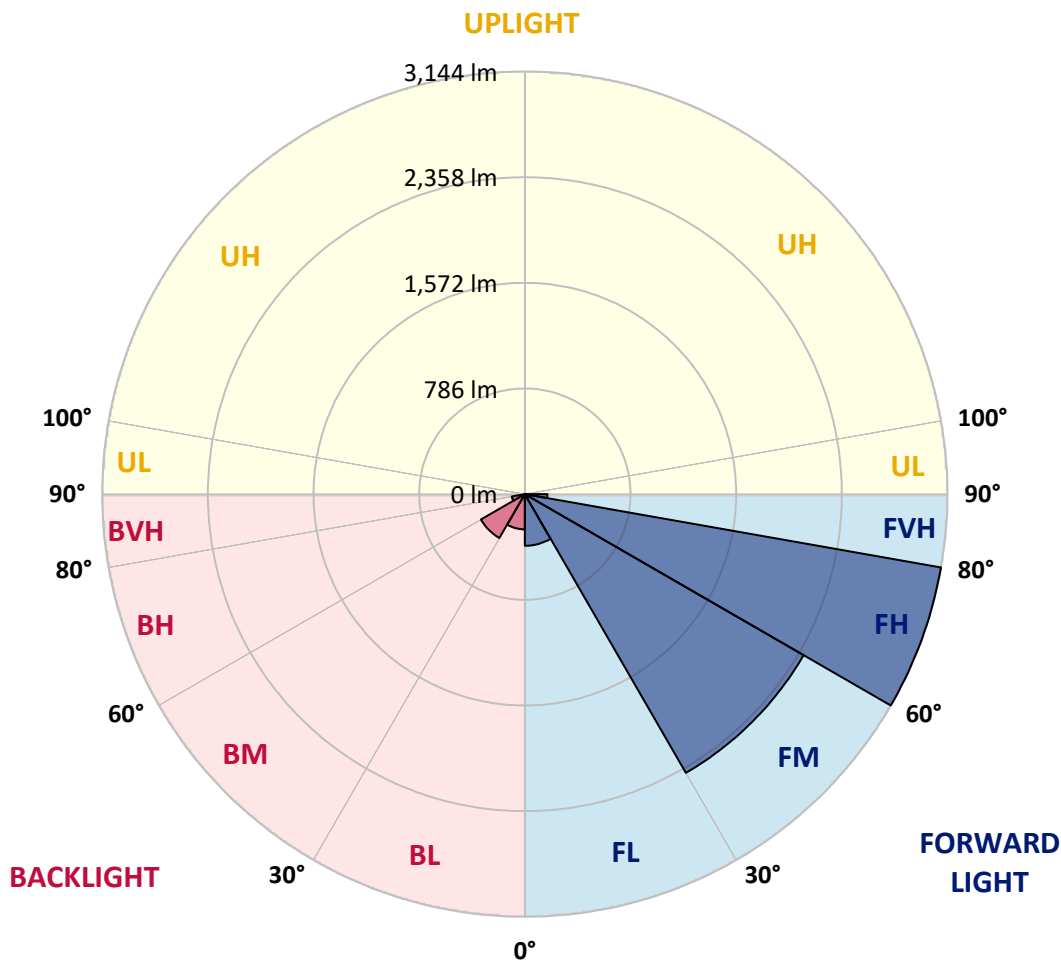
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	384.2	5.6			
FM (30°-60°)	2394.1	35.1			
FH (60°-80°)	3143.6	46.0			G2/5000
FVH (80°-90°)	168.3	2.5			G2/225
BL (0°-30°)	262.0	3.8	B1/500		
BM (30°-60°)	377.3	5.5	B1/1000		
BH (60°-80°)	98.1	1.4	B0/110		G0/110
BVH (80°-90°)	0.1	0.0			G0/10
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5
2.5°	988.7	1002.7	1001.0	1009.7	1011.5	1016.7	1029.0	1029.0	1064.0	1088.5	1104.2
5°	899.5	890.7	894.2	904.7	931.0	929.2	959.0	974.7	1016.7	1051.7	1088.5
7.5°	789.2	787.5	794.5	819.0	838.2	854.0	885.5	925.7	981.7	1034.2	1099.0
10°	719.2	715.7	729.7	736.7	759.5	770.0	819.0	882.0	948.5	1023.7	1099.0
12.5°	703.5	691.2	698.2	696.5	717.5	722.7	770.0	847.0	927.5	1020.2	1113.0
15°	712.2	703.5	696.5	696.5	701.7	705.2	756.0	824.2	915.2	1025.5	1144.5
17.5°	740.2	735.0	714.0	693.0	715.7	715.7	747.2	819.0	917.0	1041.2	1183.0
20°	773.5	768.2	731.5	707.0	722.7	740.2	773.5	831.2	922.2	1053.5	1242.5
22.5°	810.2	810.2	759.5	731.5	752.5	754.2	813.7	869.7	943.2	1085.0	1281.0
25°	855.7	852.2	803.2	771.7	778.7	798.0	852.2	911.7	981.7	1128.7	1352.7
27.5°	915.2	910.0	852.2	820.7	829.5	850.5	911.7	971.2	1016.7	1146.2	1414.0
30°	964.2	959.0	911.7	864.5	883.7	903.0	974.7	1027.2	1060.5	1179.5	1484.0
32.5°	974.7	966.0	934.5	913.5	934.5	971.2	1027.2	1081.5	1132.2	1263.5	1617.0
35°	1095.5	1064.0	981.7	948.5	980.0	992.2	1085.0	1181.2	1230.2	1330.0	1765.7
37.5°	1326.5	1296.7	1188.2	1095.5	1051.7	1065.7	1186.5	1305.5	1352.7	1454.2	1928.5
40°	1610.0	1561.0	1445.5	1321.2	1232.0	1214.5	1293.2	1468.2	1513.7	1610.0	2142.0
42.5°	1933.7	1886.5	1708.0	1561.0	1470.0	1447.2	1459.5	1657.2	1695.7	1753.5	2282.0
45°	2166.5	2142.0	1940.7	1809.5	1737.7	1713.2	1683.5	1863.7	1912.7	1932.0	2485.0
47.5°	2301.2	2283.7	2171.7	2082.5	1986.2	1960.0	1979.2	2150.7	2117.5	2133.2	2679.2
50°	2481.5	2436.0	2283.7	2311.7	2292.5	2285.5	2318.7	2394.0	2345.0	2299.5	2890.9
52.5°	2626.7	2546.2	2439.5	2507.7	2537.5	2563.7	2681.0	2737.0	2518.2	2448.2	3027.4
55°	2716.0	2639.0	2667.0	2730.0	2761.5	2882.2	3020.4	2978.4	2632.0	2567.2	3209.4
57.5°	2796.4	2801.7	2876.9	2896.2	3057.2	3078.2	3344.2	3207.7	2712.5	2675.7	3281.2
60°	2990.7	2971.4	3032.7	3156.9	3310.9	3428.2	3681.9	3361.7	2752.7	2731.7	3261.9
62.5°	3340.7	3221.7	3242.7	3400.2	3625.9	3753.7	3876.2	3431.7	2742.2	2740.5	3204.2
65°	3785.2	3648.7	3585.7	3732.7	4024.9	4205.2	4094.9	3510.4	2672.2	2721.2	2988.9
67.5°	4154.4	4156.2	4038.9	4121.2	4502.7	4541.2	4301.4	3494.7	2555.0	2569.0	2464.0
70°	4579.7	4637.4	4534.2	4791.4	4982.2	5006.7	4537.7	3365.2	2303.0	1937.2	1415.7
72.5°	4688.2	4717.9	5039.9	5435.4	5650.6	5657.6	4770.4	2932.9	1515.5	855.7	439.2
75°	3681.9	3709.9	4850.9	5725.9	6046.1	5984.9	4381.9	1904.0	589.7	250.2	105.0
77.5°	2054.5	2063.2	3011.7	4628.7	5129.2	4882.4	3069.4	742.0	238.0	143.5	49.0
80°	561.7	659.7	1116.5	2282.0	3132.4	3074.7	1461.2	241.5	154.0	112.0	22.7
82.5°	134.7	145.2	358.7	1009.7	1655.5	1727.2	435.7	122.5	106.7	92.7	12.2
85°	49.0	54.2	110.2	491.7	850.5	780.5	131.2	61.2	78.7	71.7	5.2
87.5°	17.5	17.5	35.0	161.0	248.5	187.2	43.7	21.0	40.2	43.7	1.7
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°	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5
2.5°	1106.0	1106.0	1130.5	1151.5	1158.5	1167.2	1158.5	1177.7	1176.0	1167.2	1170.7
5°	1107.7	1139.2	1160.2	1174.2	1181.2	1179.5	1183.0	1162.0	1149.7	1141.0	1132.2
7.5°	1116.5	1146.2	1184.7	1181.2	1162.0	1121.7	1090.2	1034.2	980.0	978.2	969.5
10°	1146.2	1172.5	1195.2	1181.2	1111.2	988.7	889.0	813.7	745.5	714.0	717.5
12.5°	1167.2	1216.2	1205.7	1134.0	988.7	827.7	680.7	570.5	509.2	451.5	451.5
15°	1211.0	1228.5	1225.0	1065.7	838.2	645.7	467.2	355.2	290.5	264.2	260.7
17.5°	1253.0	1272.2	1212.7	962.5	689.5	434.0	283.5	220.5	211.7	208.2	210.0
20°	1305.5	1307.2	1202.2	859.2	518.0	274.7	203.0	197.7	199.5	197.7	197.7
22.5°	1361.5	1373.7	1165.5	714.0	344.7	199.5	189.0	190.7	190.7	190.7	196.0
25°	1435.0	1415.7	1107.7	575.7	225.7	183.7	183.7	185.5	185.5	185.5	187.2
27.5°	1484.0	1457.7	1034.2	414.7	176.7	173.2	176.7	176.7	180.2	180.2	180.2
30°	1585.5	1517.2	941.5	267.7	159.2	164.5	168.0	171.5	173.2	176.7	178.5
32.5°	1664.2	1569.7	826.0	178.5	145.2	148.7	157.5	164.5	171.5	169.7	169.7
35°	1807.7	1655.5	719.2	141.7	133.0	133.0	141.7	154.0	164.5	168.0	168.0
37.5°	1972.2	1725.5	570.5	129.5	122.5	122.5	127.7	141.7	155.7	162.7	159.2
40°	2108.7	1806.0	421.7	120.7	113.7	113.7	117.2	127.7	143.5	155.7	157.5
42.5°	2205.0	1865.5	285.2	112.0	106.7	105.0	110.2	115.5	127.7	145.2	148.7
45°	2292.5	1897.0	176.7	103.2	99.7	99.7	99.7	105.0	113.7	129.5	133.0
47.5°	2448.2	1932.0	127.7	96.2	91.0	92.7	94.5	96.2	103.2	106.7	108.5
50°	2579.5	1958.2	105.0	89.2	85.7	87.5	87.5	87.5	91.0	85.7	85.7
52.5°	2679.2	1932.0	89.2	82.2	78.7	80.5	78.7	78.7	75.2	68.2	68.2
55°	2752.7	1884.7	71.7	75.2	75.2	75.2	71.7	66.5	59.5	54.2	54.2
57.5°	2772.0	1804.2	56.0	63.0	68.2	68.2	61.2	54.2	45.5	40.2	38.5
60°	2742.2	1629.2	42.0	45.5	52.5	54.2	49.0	40.2	31.5	26.2	26.2
62.5°	2635.5	1491.0	33.2	29.7	38.5	40.2	35.0	26.2	17.5	12.2	10.5
65°	2432.5	1277.5	24.5	21.0	26.2	28.0	22.7	12.2	5.2	1.7	0.0
67.5°	1951.2	962.5	15.7	14.0	17.5	17.5	10.5	3.5	0.0	0.0	0.0
70°	1079.7	540.7	10.5	7.0	8.7	5.2	1.7	0.0	0.0	0.0	0.0
72.5°	311.5	154.0	5.2	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	84.0	36.7	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	36.7	14.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	15.7	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)