

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: P676626

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676626
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-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T4FT distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

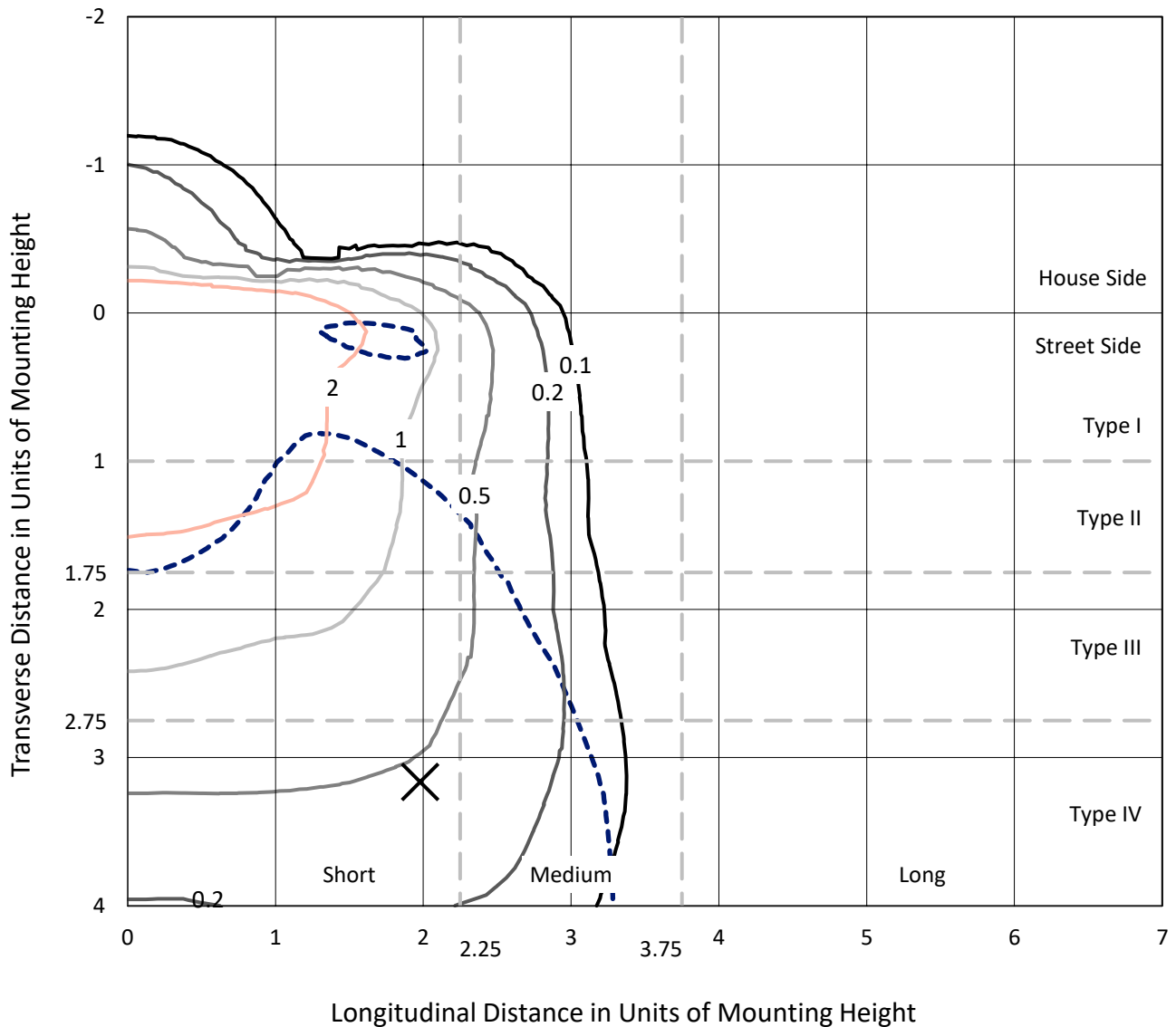
Lumens per Lamp: N/A
Luminaire Lumens: 6598.8 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

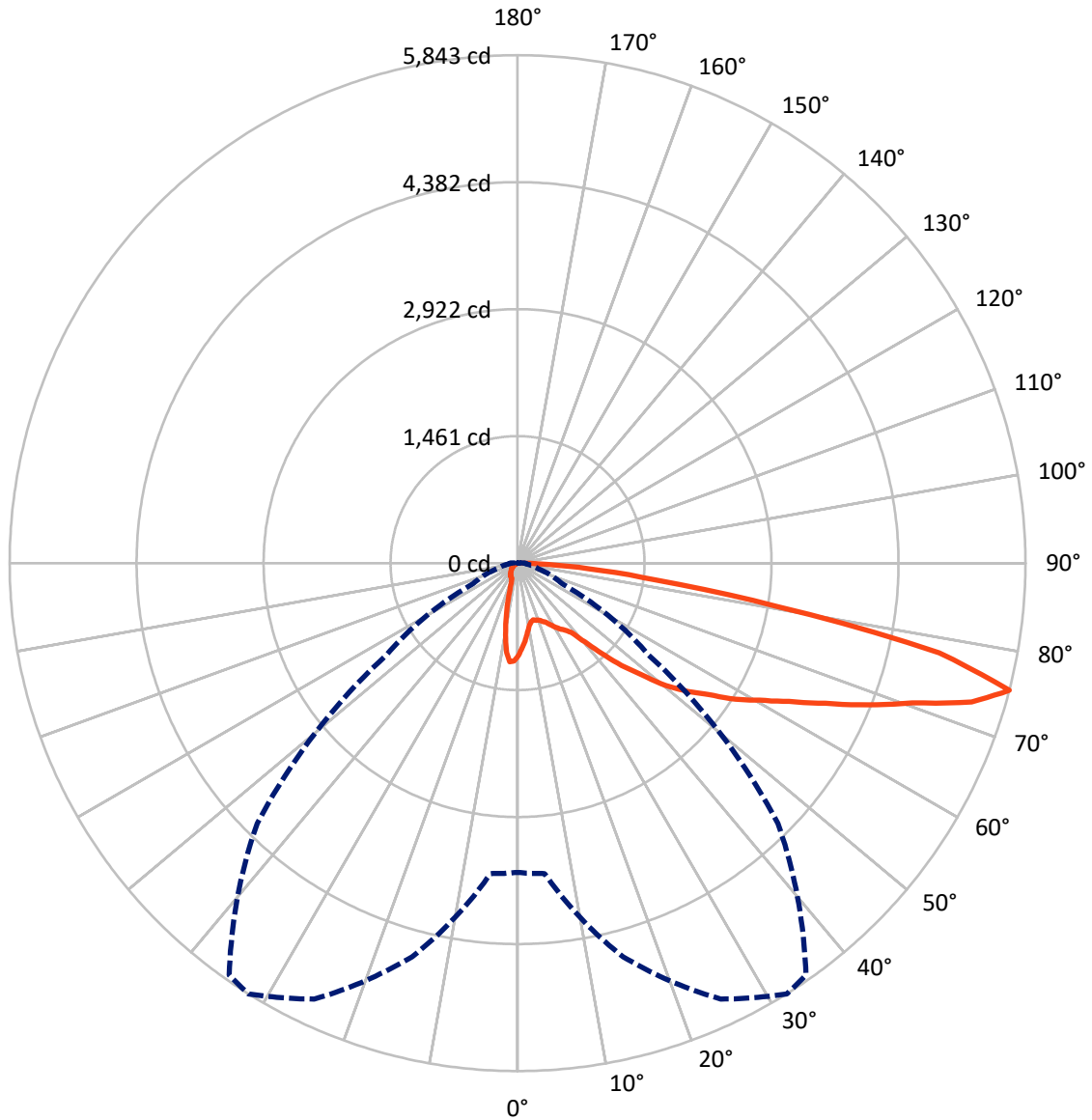
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.7 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	712.9	0.0	712.9
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	5885.9	0.0	5885.9
	% Fixture	89.2	0.0	89.2
Total	Lumens	6598.8	0.0	6598.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	1.4
10°-20°	212.6	3.2
20°-30°	318.3	4.8
30°-40°	488.6	7.4
40°-50°	854.4	12.9
50°-60°	1335.5	20.2
60°-70°	1726.6	26.2
70°-80°	1406.3	21.3
80°-90°	162.8	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°	6598.8	100.0
0°-180°	6598.8	100.0



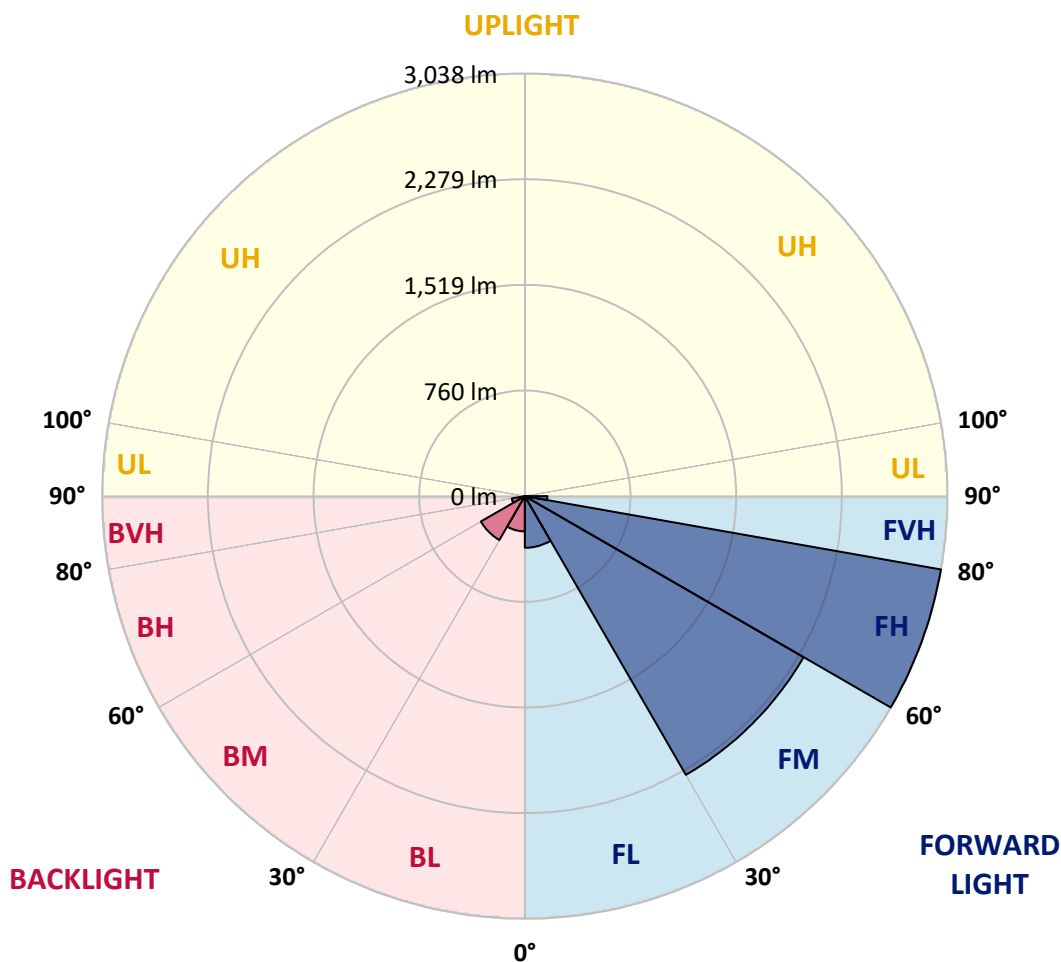
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	371.3	5.6			
FM (30°-60°)	2313.8	35.1			
FH (60°-80°)	3038.1	46.0			G2/5000
FVH (80°-90°)	162.7	2.5			G2/225
BL (0°-30°)	253.2	3.8	B1/500		
BM (30°-60°)	364.7	5.5	B1/1000		
BH (60°-80°)	94.8	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°	1065.5	1065.5	1065.5	1065.5	1065.5	1065.5	1065.5	1065.5	1065.5	1065.5	1065.5
2.5°	955.6	969.1	967.4	975.9	977.6	982.6	994.5	994.5	1028.3	1052.0	1067.2
5°	869.3	860.9	864.2	874.4	899.8	898.1	926.8	942.0	982.6	1016.5	1052.0
7.5°	762.8	761.1	767.8	791.5	810.1	825.3	855.8	894.7	948.8	999.5	1062.1
10°	695.1	691.7	705.3	712.0	734.0	744.2	791.5	852.4	916.7	989.4	1062.1
12.5°	679.9	668.1	674.8	673.1	693.4	698.5	744.2	818.6	896.4	986.0	1075.6
15°	688.3	679.9	673.1	673.1	678.2	681.6	730.6	796.6	884.5	991.1	1106.1
17.5°	715.4	710.3	690.0	669.7	691.7	691.7	722.2	791.5	886.2	1006.3	1143.3
20°	747.5	742.5	706.9	683.3	698.5	715.4	747.5	803.4	891.3	1018.1	1200.8
22.5°	783.1	783.1	734.0	706.9	727.2	728.9	786.4	840.6	911.6	1048.6	1238.0
25°	827.0	823.6	776.3	745.8	752.6	771.2	823.6	881.2	948.8	1090.9	1307.3
27.5°	884.5	879.5	823.6	793.2	801.7	822.0	881.2	938.7	982.6	1107.8	1366.5
30°	931.9	926.8	881.2	835.5	854.1	872.7	942.0	992.8	1024.9	1139.9	1434.2
32.5°	942.0	933.6	903.1	882.8	903.1	938.7	992.8	1045.2	1094.2	1221.1	1562.7
35°	1058.7	1028.3	948.8	916.7	947.1	958.9	1048.6	1141.6	1189.0	1285.4	1706.5
37.5°	1282.0	1253.2	1148.4	1058.7	1016.5	1030.0	1146.7	1261.7	1307.3	1405.4	1863.8
40°	1556.0	1508.6	1397.0	1276.9	1190.7	1173.7	1249.8	1419.0	1462.9	1556.0	2070.1
42.5°	1868.8	1823.2	1650.7	1508.6	1420.7	1398.7	1410.5	1601.6	1638.8	1694.6	2205.4
45°	2093.8	2070.1	1875.6	1748.8	1679.4	1655.8	1627.0	1801.2	1848.6	1867.2	2401.6
47.5°	2224.0	2207.1	2098.9	2012.6	1919.6	1894.2	1912.8	2078.6	2046.4	2061.7	2589.3
50°	2398.2	2354.2	2207.1	2234.2	2215.6	2208.8	2240.9	2313.7	2266.3	2222.3	2794.0
52.5°	2538.6	2460.8	2357.6	2423.6	2452.3	2477.7	2591.0	2645.1	2433.7	2366.1	2925.9
55°	2624.8	2550.4	2577.5	2638.4	2668.8	2785.5	2919.1	2878.5	2543.7	2481.1	3101.8
57.5°	2702.6	2707.7	2780.4	2799.0	2954.6	2974.9	3232.0	3100.1	2621.5	2585.9	3171.1
60°	2890.4	2871.8	2931.0	3051.0	3199.9	3313.2	3558.4	3248.9	2660.4	2640.1	3152.5
62.5°	3228.6	3113.6	3133.9	3286.1	3504.3	3627.8	3746.2	3316.6	2650.2	2648.5	3096.7
65°	3658.2	3526.3	3465.4	3607.5	3889.9	4064.1	3957.6	3392.7	2582.6	2629.9	2888.7
67.5°	4015.1	4016.8	3903.4	3982.9	4351.6	4388.8	4157.1	3377.5	2469.2	2482.8	2381.3
70°	4426.0	4481.9	4382.1	4630.7	4815.0	4838.7	4385.5	3252.3	2225.7	1872.2	1368.2
72.5°	4530.9	4559.7	4870.8	5253.1	5461.1	5467.9	4610.4	2834.6	1464.6	827.0	424.5
75°	3558.4	3585.5	4688.2	5533.8	5843.3	5784.1	4234.9	1840.1	570.0	241.9	101.5
77.5°	1985.5	1994.0	2910.7	4473.4	4957.1	4718.6	2966.5	717.1	230.0	138.7	47.4
80°	542.9	637.6	1079.0	2205.4	3027.4	2971.6	1412.2	233.4	148.8	108.2	22.0
82.5°	130.2	140.4	346.7	975.9	1599.9	1669.3	421.1	118.4	103.2	89.6	11.8
85°	47.4	52.4	106.5	475.2	822.0	754.3	126.8	59.2	76.1	69.3	5.1
87.5°	16.9	16.9	33.8	155.6	240.2	181.0	42.3	20.3	38.9	42.3	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°	1065.5	1065.5	1065.5	1065.5	1065.5	1065.5	1065.5	1065.5	1065.5	1065.5	1065.5
2.5°	1068.9	1068.9	1092.6	1112.9	1119.6	1128.1	1119.6	1138.2	1136.5	1128.1	1131.5
5°	1070.6	1101.0	1121.3	1134.8	1141.6	1139.9	1143.3	1123.0	1111.2	1102.7	1094.2
7.5°	1079.0	1107.8	1145.0	1141.6	1123.0	1084.1	1053.7	999.5	947.1	945.4	937.0
10°	1107.8	1133.1	1155.1	1141.6	1074.0	955.6	859.2	786.4	720.5	690.0	693.4
12.5°	1128.1	1175.4	1165.3	1095.9	955.6	800.0	657.9	551.4	492.2	436.3	436.3
15°	1170.4	1187.3	1183.9	1030.0	810.1	624.1	451.6	343.3	280.8	255.4	252.0
17.5°	1210.9	1229.6	1172.0	930.2	666.4	419.4	274.0	213.1	204.6	201.3	203.0
20°	1261.7	1263.4	1161.9	830.4	500.6	265.5	196.2	191.1	192.8	191.1	191.1
22.5°	1315.8	1327.6	1126.4	690.0	333.2	192.8	182.7	184.3	184.3	184.3	189.4
25°	1386.8	1368.2	1070.6	556.4	218.2	177.6	177.6	179.3	179.3	179.3	181.0
27.5°	1434.2	1408.8	999.5	400.8	170.8	167.4	170.8	170.8	174.2	174.2	174.2
30°	1532.3	1466.3	909.9	258.8	153.9	159.0	162.4	165.7	167.4	170.8	172.5
32.5°	1608.4	1517.1	798.3	172.5	140.4	143.8	152.2	159.0	165.7	164.1	164.1
35°	1747.1	1599.9	695.1	137.0	128.5	128.5	137.0	148.8	159.0	162.4	162.4
37.5°	1906.1	1667.6	551.4	125.2	118.4	118.4	123.5	137.0	150.5	157.3	153.9
40°	2038.0	1745.4	407.6	116.7	109.9	109.9	113.3	123.5	138.7	150.5	152.2
42.5°	2131.0	1802.9	275.7	108.2	103.2	101.5	106.5	111.6	123.5	140.4	143.8
45°	2215.6	1833.3	170.8	99.8	96.4	96.4	96.4	101.5	109.9	125.2	128.5
47.5°	2366.1	1867.2	123.5	93.0	87.9	89.6	91.3	93.0	99.8	103.2	104.9
50°	2492.9	1892.5	101.5	86.3	82.9	84.6	84.6	84.6	87.9	82.9	82.9
52.5°	2589.3	1867.2	86.3	79.5	76.1	77.8	76.1	76.1	72.7	66.0	66.0
55°	2660.4	1821.5	69.3	72.7	72.7	72.7	69.3	64.3	57.5	52.4	52.4
57.5°	2679.0	1743.7	54.1	60.9	66.0	66.0	59.2	52.4	44.0	38.9	37.2
60°	2650.2	1574.6	40.6	44.0	50.7	52.4	47.4	38.9	30.4	25.4	25.4
62.5°	2547.0	1441.0	32.1	28.8	37.2	38.9	33.8	25.4	16.9	11.8	10.1
65°	2350.9	1234.6	23.7	20.3	25.4	27.1	22.0	11.8	5.1	1.7	0.0
67.5°	1885.8	930.2	15.2	13.5	16.9	16.9	10.1	3.4	0.0	0.0	0.0
70°	1043.5	522.6	10.1	6.8	8.5	5.1	1.7	0.0	0.0	0.0	0.0
72.5°	301.0	148.8	5.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	81.2	35.5	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	35.5	13.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	15.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.4	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)