

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: P676549

Luminaire Tested: **CCW-SA-2D-730-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676549
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-730-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) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

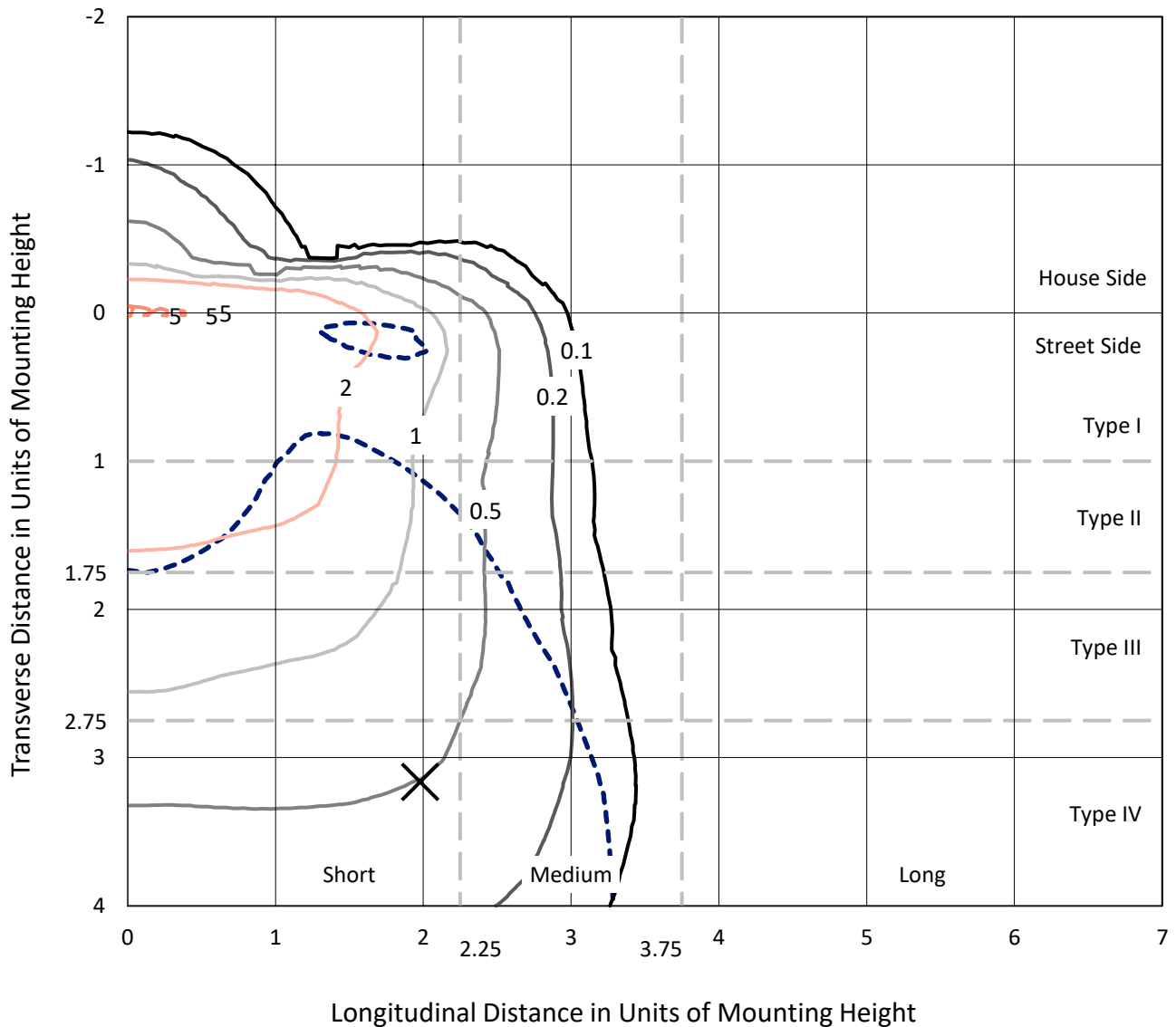
Lumens per Lamp: N/A
Luminaire Lumens: 7292.3 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

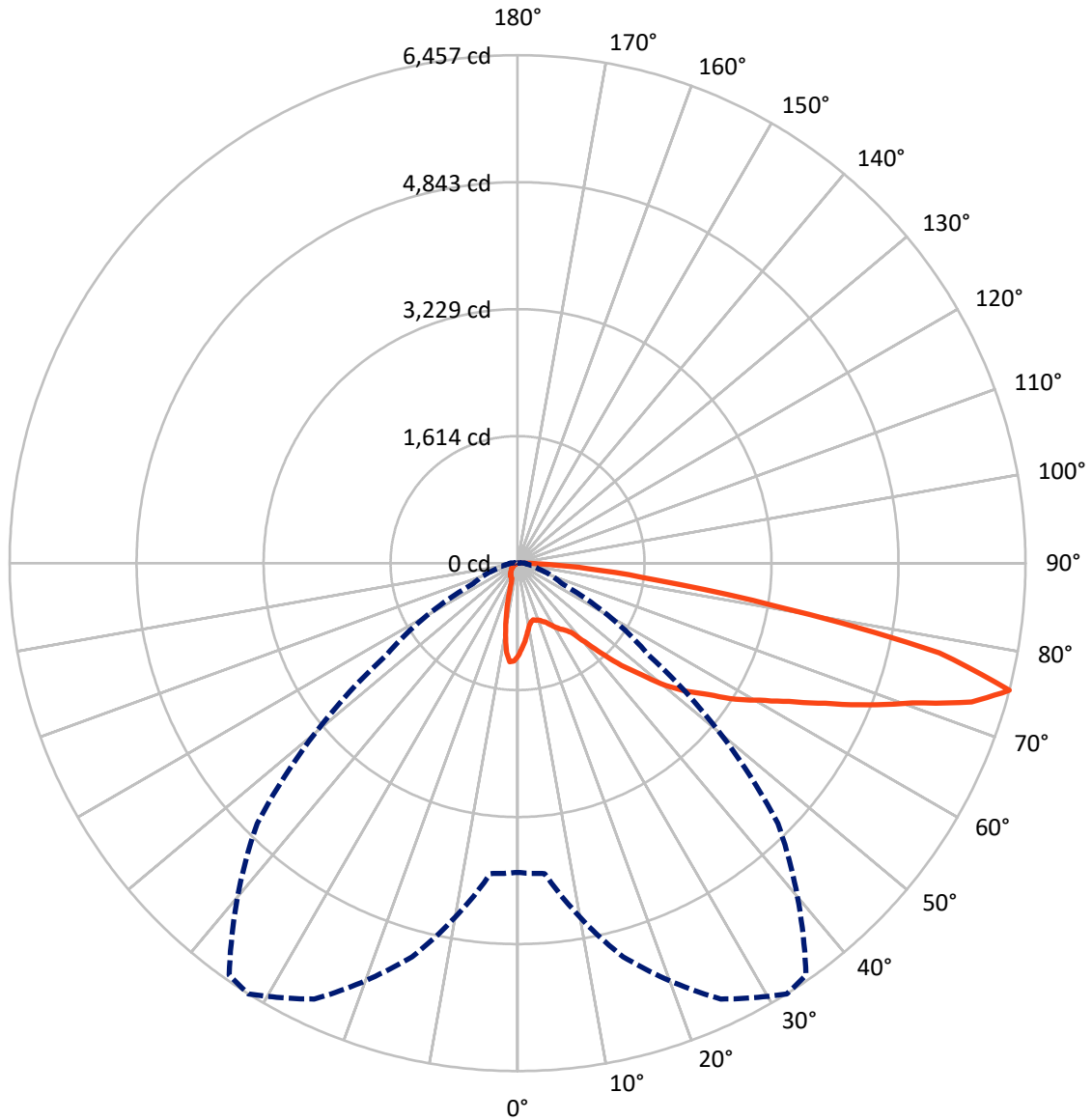
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.2 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	787.8	0.0	787.8
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	6504.5	0.0	6504.5
	% Fixture	89.2	0.0	89.2
Total	Lumens	7292.3	0.0	7292.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	1.4
10°-20°	234.9	3.2
20°-30°	351.7	4.8
30°-40°	539.9	7.4
40°-50°	944.2	12.9
50°-60°	1475.9	20.2
60°-70°	1908.1	26.2
70°-80°	1554.1	21.3
80°-90°	179.9	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°	7292.3	100.0
0°-180°	7292.3	100.0



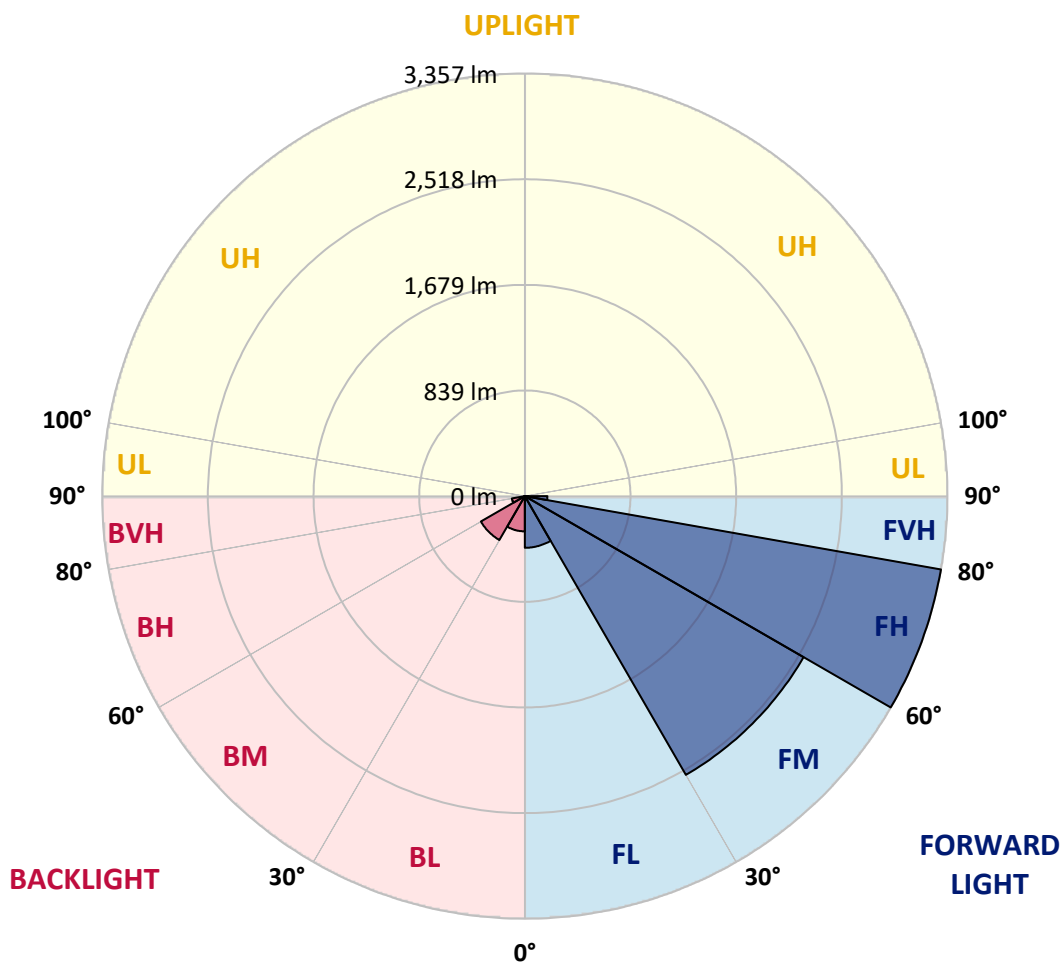
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.3	5.6			
FM (30°-60°)	2557.0	35.1			
FH (60°-80°)	3357.4	46.0			G2/5000
FVH (80°-90°)	179.8	2.5			G2/225
BL (0°-30°)	279.8	3.8	B1/500		
BM (30°-60°)	403.0	5.5	B1/1000		
BH (60°-80°)	104.8	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°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5
2.5°	1056.0	1070.9	1069.1	1078.4	1080.3	1085.9	1099.0	1099.0	1136.4	1162.5	1179.3
5°	960.7	951.3	955.1	966.3	994.3	992.4	1024.2	1041.0	1085.9	1123.3	1162.5
7.5°	842.9	841.1	848.5	874.7	895.3	912.1	945.7	988.7	1048.5	1104.6	1173.7
10°	768.2	764.4	779.4	786.9	811.2	822.4	874.7	942.0	1013.0	1093.4	1173.7
12.5°	751.3	738.3	745.7	743.9	766.3	771.9	822.4	904.6	990.6	1089.6	1188.7
15°	760.7	751.3	743.9	743.9	749.5	753.2	807.4	880.3	977.5	1095.2	1222.3
17.5°	790.6	785.0	762.6	740.1	764.4	764.4	798.1	874.7	979.4	1112.1	1263.5
20°	826.1	820.5	781.2	755.1	771.9	790.6	826.1	887.8	985.0	1125.1	1327.0
22.5°	865.4	865.4	811.2	781.2	803.7	805.5	869.1	928.9	1007.4	1158.8	1368.1
25°	913.9	910.2	857.9	824.2	831.7	852.3	910.2	973.8	1048.5	1205.5	1444.7
27.5°	977.5	971.9	910.2	876.6	885.9	908.3	973.8	1037.3	1085.9	1224.2	1510.2
30°	1029.8	1024.2	973.8	923.3	943.9	964.4	1041.0	1097.1	1132.6	1259.7	1584.9
32.5°	1041.0	1031.7	998.1	975.6	998.1	1037.3	1097.1	1155.1	1209.3	1349.4	1727.0
35°	1170.0	1136.4	1048.5	1013.0	1046.6	1059.7	1158.8	1261.6	1313.9	1420.5	1885.8
37.5°	1416.7	1384.9	1269.1	1170.0	1123.3	1138.2	1267.2	1394.3	1444.7	1553.2	2059.7
40°	1719.5	1667.2	1543.8	1411.1	1315.8	1297.1	1381.2	1568.1	1616.7	1719.5	2287.7
42.5°	2065.3	2014.8	1824.2	1667.2	1570.0	1545.7	1558.8	1770.0	1811.1	1872.8	2437.2
45°	2313.8	2287.7	2072.7	1932.6	1855.9	1829.8	1798.0	1990.5	2042.8	2063.4	2654.0
47.5°	2457.8	2439.1	2319.4	2224.1	2121.3	2093.3	2113.9	2297.0	2261.5	2278.3	2861.5
50°	2650.3	2601.7	2439.1	2469.0	2448.4	2440.9	2476.4	2556.8	2504.5	2455.9	3087.6
52.5°	2805.4	2719.4	2605.4	2678.3	2710.1	2738.1	2863.3	2923.1	2689.5	2614.8	3233.4
55°	2900.7	2818.5	2848.4	2915.7	2949.3	3078.3	3225.9	3181.1	2811.0	2741.8	3427.8
57.5°	2986.7	2992.3	3072.7	3093.2	3265.2	3287.6	3571.7	3425.9	2897.0	2857.7	3504.4
60°	3194.1	3173.6	3239.0	3371.7	3536.2	3661.4	3932.4	3590.4	2940.0	2917.5	3483.8
62.5°	3567.9	3440.9	3463.3	3631.5	3872.6	4009.0	4139.9	3665.1	2928.7	2926.9	3422.2
65°	4042.7	3896.9	3829.6	3986.6	4298.7	4491.2	4373.5	3749.2	2854.0	2906.3	3192.3
67.5°	4437.0	4438.9	4313.7	4401.5	4809.0	4850.1	4594.0	3732.4	2728.8	2743.7	2631.6
70°	4891.2	4952.9	4842.6	5117.4	5321.1	5347.2	4846.4	3594.1	2459.6	2069.0	1512.0
72.5°	5007.1	5038.9	5382.8	5805.2	6035.0	6042.5	5094.9	3132.5	1618.6	913.9	469.1
75°	3932.4	3962.3	5180.9	6115.4	6457.4	6392.0	4680.0	2033.5	629.9	267.3	112.1
77.5°	2194.2	2203.6	3216.6	4943.5	5478.1	5214.5	3278.3	792.5	254.2	153.3	52.3
80°	600.0	704.6	1192.4	2437.2	3345.5	3283.9	1560.6	257.9	164.5	119.6	24.3
82.5°	143.9	155.1	383.1	1078.4	1768.1	1844.7	465.4	130.8	114.0	99.1	13.1
85°	52.3	57.9	117.7	525.2	908.3	833.6	140.2	65.4	84.1	76.6	5.6
87.5°	18.7	18.7	37.4	171.9	265.4	200.0	46.7	22.4	43.0	46.7	1.9
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°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5
2.5°	1181.2	1181.2	1207.4	1229.8	1237.3	1246.6	1237.3	1257.8	1256.0	1246.6	1250.4
5°	1183.1	1216.7	1239.2	1254.1	1261.6	1259.7	1263.5	1241.0	1227.9	1218.6	1209.3
7.5°	1192.4	1224.2	1265.3	1261.6	1241.0	1198.0	1164.4	1104.6	1046.6	1044.8	1035.4
10°	1224.2	1252.2	1276.5	1261.6	1186.8	1056.0	949.5	869.1	796.2	762.6	766.3
12.5°	1246.6	1299.0	1287.8	1211.1	1056.0	884.0	727.0	609.3	543.9	482.2	482.2
15°	1293.4	1312.0	1308.3	1138.2	895.3	689.7	499.0	379.4	310.3	282.2	278.5
17.5°	1338.2	1358.8	1295.2	1028.0	736.4	463.5	302.8	235.5	226.2	222.4	224.3
20°	1394.3	1396.2	1284.0	917.7	553.2	293.4	216.8	211.2	213.1	211.2	211.2
22.5°	1454.1	1467.2	1244.8	762.6	368.2	213.1	201.9	203.7	203.7	203.7	209.3
25°	1532.6	1512.0	1183.1	614.9	241.1	196.2	196.2	198.1	198.1	198.1	200.0
27.5°	1584.9	1556.9	1104.6	443.0	188.8	185.0	188.8	188.8	192.5	192.5	192.5
30°	1693.3	1620.4	1005.5	286.0	170.1	175.7	179.4	183.2	185.0	188.8	190.6
32.5°	1777.4	1676.5	882.2	190.6	155.1	158.9	168.2	175.7	183.2	181.3	181.3
35°	1930.7	1768.1	768.2	151.4	142.0	142.0	151.4	164.5	175.7	179.4	179.4
37.5°	2106.4	1842.8	609.3	138.3	130.8	130.8	136.4	151.4	166.3	173.8	170.1
40°	2252.2	1928.8	450.4	129.0	121.5	121.5	125.2	136.4	153.3	166.3	168.2
42.5°	2355.0	1992.4	304.6	119.6	114.0	112.1	117.7	123.4	136.4	155.1	158.9
45°	2448.4	2026.0	188.8	110.3	106.5	106.5	106.5	112.1	121.5	138.3	142.0
47.5°	2614.8	2063.4	136.4	102.8	97.2	99.1	100.9	102.8	110.3	114.0	115.9
50°	2754.9	2091.4	112.1	95.3	91.6	93.5	93.5	93.5	97.2	91.6	91.6
52.5°	2861.5	2063.4	95.3	87.8	84.1	86.0	84.1	84.1	80.4	72.9	72.9
55°	2940.0	2012.9	76.6	80.4	80.4	80.4	76.6	71.0	63.5	57.9	57.9
57.5°	2960.5	1927.0	59.8	67.3	72.9	72.9	65.4	57.9	48.6	43.0	41.1
60°	2928.7	1740.1	44.9	48.6	56.1	57.9	52.3	43.0	33.6	28.0	28.0
62.5°	2814.7	1592.4	35.5	31.8	41.1	43.0	37.4	28.0	18.7	13.1	11.2
65°	2597.9	1364.4	26.2	22.4	28.0	29.9	24.3	13.1	5.6	1.9	0.0
67.5°	2084.0	1028.0	16.8	15.0	18.7	18.7	11.2	3.7	0.0	0.0	0.0
70°	1153.2	577.5	11.2	7.5	9.3	5.6	1.9	0.0	0.0	0.0	0.0
72.5°	332.7	164.5	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	89.7	39.2	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	39.2	15.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	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)