

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: P676792

Luminaire Tested: **CCW-SA-2D-850-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676792
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-850-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T4W distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

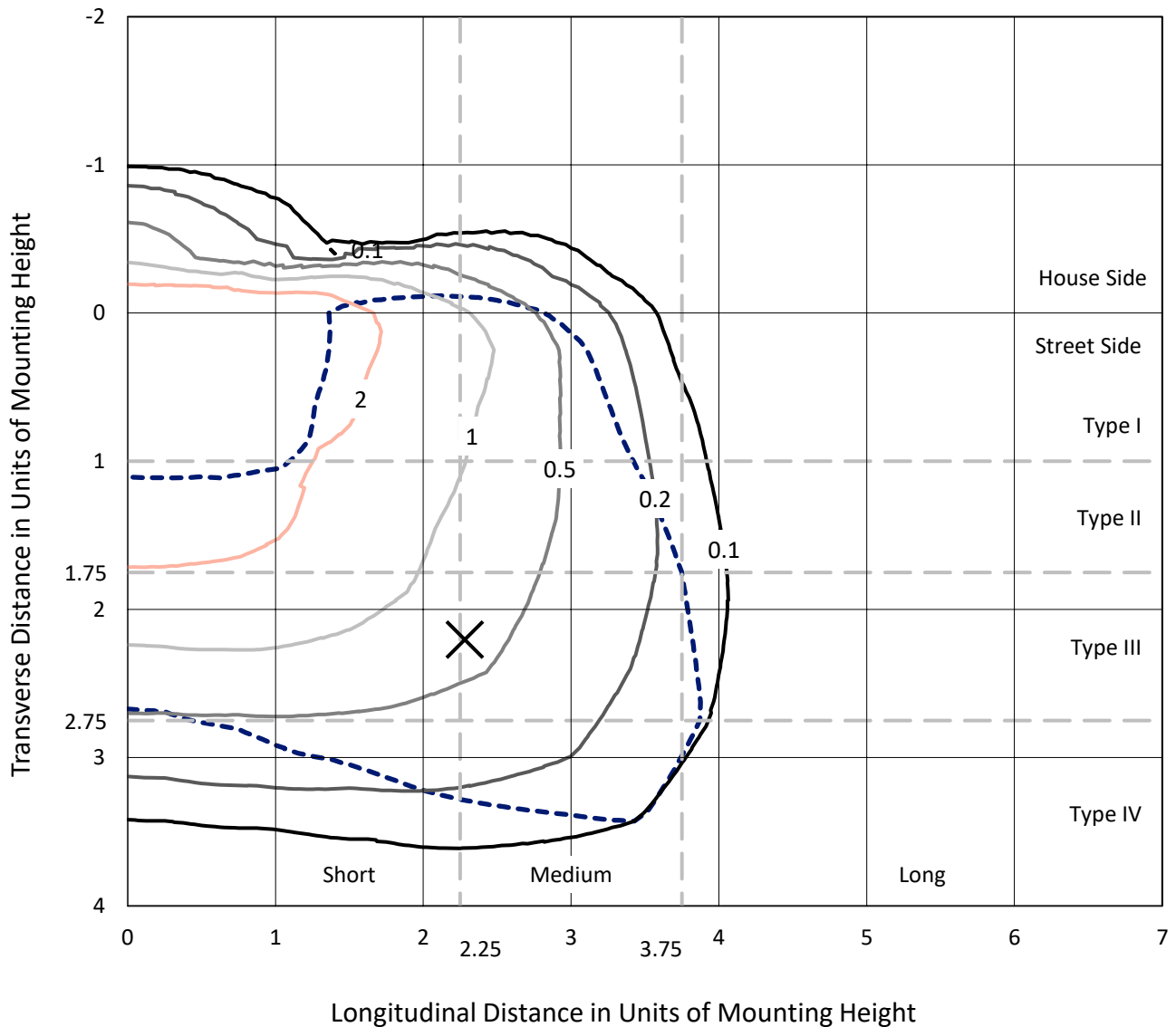
Lumens per Lamp: N/A
Luminaire Lumens: 7021.4 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

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

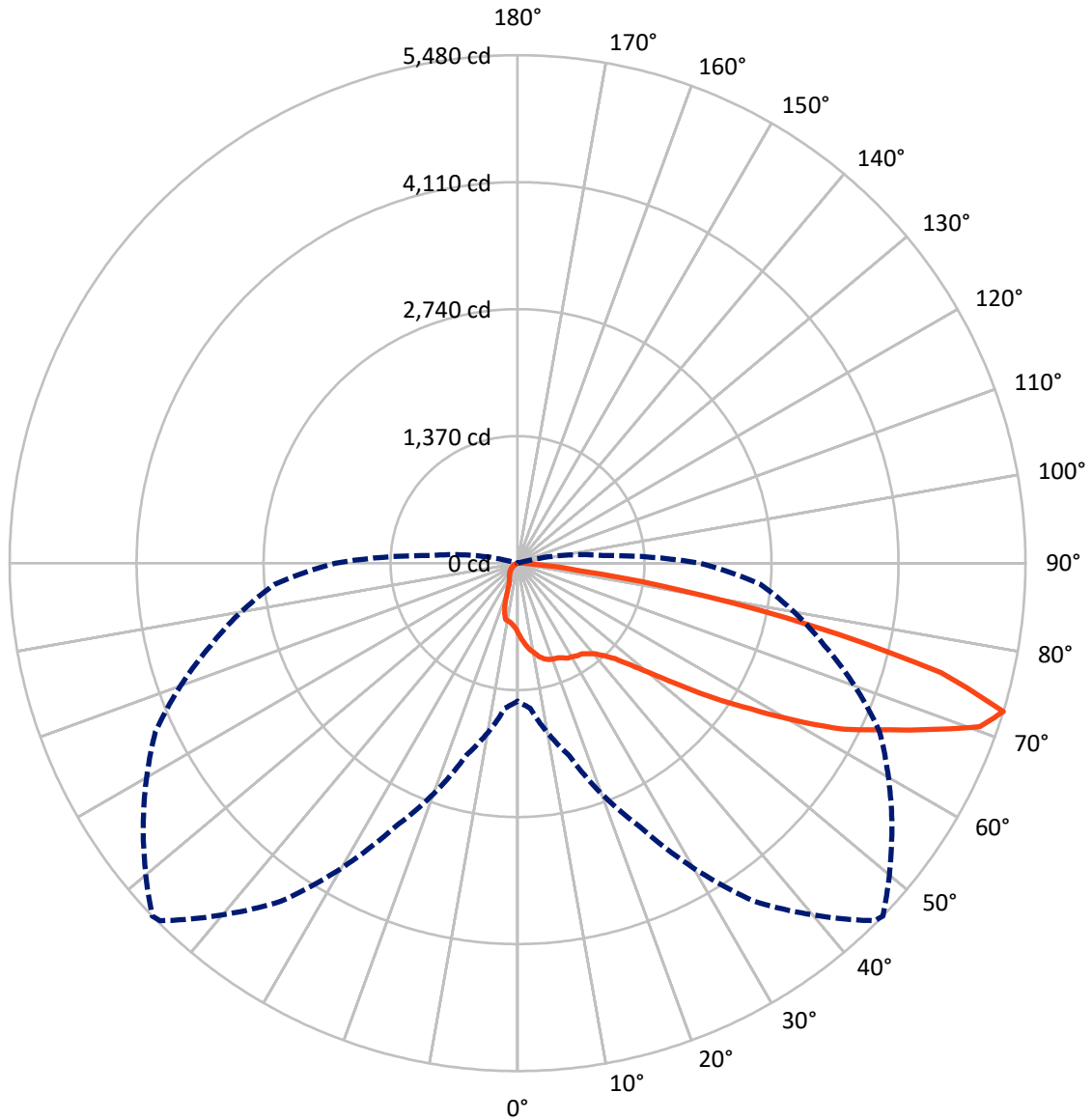
× Max cd
 - - - 1/2 Max cd



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

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CATALOG NUMBER: CCW-SA-2D-850-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	755.9	0.0	755.9
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	6265.5	0.0	6265.5
	% Fixture	89.2	0.0	89.2
Total	Lumens	7021.4	0.0	7021.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	1.1
10°-20°	226.7	3.2
20°-30°	355.0	5.1
30°-40°	497.1	7.1
40°-50°	819.8	11.7
50°-60°	1473.5	21.0
60°-70°	2135.6	30.4
70°-80°	1332.8	19.0
80°-90°	105.6	1.5
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°	7021.4	100.0
0°-180°	7021.4	100.0

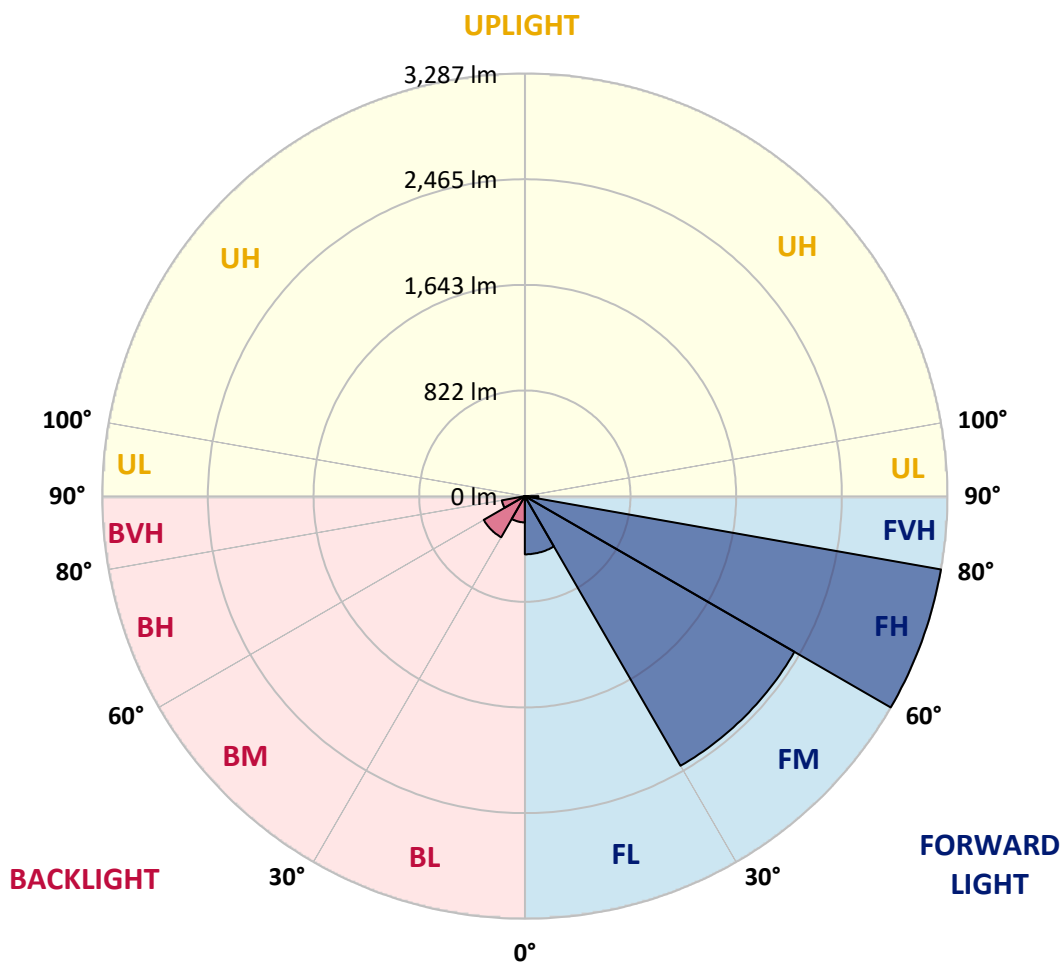


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	452.6	6.4			
FM (30°-60°)	2421.1	34.5			
FH (60°-80°)	3286.7	46.8			G2/5000
FVH (80°-90°)	105.1	1.5			G2/225
BL (0°-30°)	204.3	2.9	B1/500		
BM (30°-60°)	369.3	5.3	B1/1000		
BH (60°-80°)	181.8	2.6	B1/500		G1/500
BVH (80°-90°)	0.6	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	750.4	750.4	750.4	750.4	750.4	750.4	750.4	750.4	750.4	750.4	750.4
2.5°	840.0	836.4	841.8	840.0	818.5	822.1	820.3	805.9	780.9	766.5	757.6
5°	936.7	945.6	938.5	922.3	909.8	884.7	881.2	857.9	818.5	793.4	766.5
7.5°	1037.0	1037.0	1022.6	997.6	970.7	943.8	940.3	900.9	866.8	823.8	786.2
10°	1112.2	1103.2	1092.5	1065.6	1035.2	999.4	981.4	952.8	915.2	863.2	814.9
12.5°	1178.5	1164.1	1146.2	1106.8	1071.0	1031.6	1035.2	988.6	963.5	917.0	845.3
15°	1216.1	1203.5	1187.4	1151.6	1096.1	1078.2	1071.0	1042.3	997.6	951.0	882.9
17.5°	1225.0	1216.1	1194.6	1148.0	1117.6	1096.1	1094.3	1060.3	1040.6	1001.2	925.9
20°	1207.1	1191.0	1174.9	1144.4	1115.8	1108.6	1103.2	1103.2	1078.2	1026.2	952.8
22.5°	1176.7	1158.8	1149.8	1131.9	1108.6	1106.8	1110.4	1106.8	1087.1	1053.1	981.4
25°	1153.4	1144.4	1130.1	1124.7	1110.4	1137.3	1131.9	1126.5	1121.1	1081.7	1026.2
27.5°	1160.5	1158.8	1148.0	1126.5	1115.8	1144.4	1160.5	1162.3	1160.5	1121.1	1067.4
30°	1164.1	1155.2	1144.4	1139.1	1142.6	1171.3	1171.3	1210.7	1194.6	1155.2	1108.6
32.5°	1205.3	1199.9	1164.1	1151.6	1153.4	1187.4	1189.2	1228.6	1223.2	1196.4	1144.4
35°	1293.1	1257.3	1205.3	1169.5	1169.5	1214.3	1199.9	1257.3	1271.6	1228.6	1169.5
37.5°	1423.8	1397.0	1303.8	1223.2	1192.8	1225.0	1239.3	1271.6	1314.6	1277.0	1219.6
40°	1683.5	1678.1	1545.6	1371.9	1251.9	1280.5	1285.9	1336.1	1364.7	1312.8	1296.7
42.5°	2063.2	2036.3	1912.8	1638.7	1359.3	1346.8	1366.5	1398.7	1466.8	1423.8	1384.4
45°	2433.9	2421.4	2297.8	1991.6	1554.6	1479.3	1468.6	1525.9	1626.2	1579.6	1549.2
47.5°	2702.6	2677.5	2607.6	2349.7	1841.1	1635.2	1642.3	1699.6	1826.8	1791.0	1799.9
50°	2908.5	2896.0	2822.6	2681.1	2202.9	1880.5	1866.2	1923.5	2095.4	2118.7	2143.8
52.5°	3134.2	3157.5	3059.0	2939.0	2630.9	2210.1	2177.8	2197.5	2419.6	2473.3	2543.2
55°	3350.9	3388.5	3290.0	3273.9	3078.7	2575.4	2570.0	2523.5	2810.0	2817.2	2854.8
57.5°	3492.4	3479.8	3472.7	3560.4	3526.4	2994.5	2967.6	2921.1	3180.8	3134.2	3247.0
60°	3503.1	3539.0	3658.9	3875.7	3936.5	3487.0	3447.6	3320.5	3501.3	3390.3	3605.2
62.5°	3583.7	3612.4	3834.5	4133.6	4212.4	3920.4	3947.3	3624.9	3775.4	3687.6	4002.8
65°	3379.6	3469.1	3915.1	4334.1	4574.1	4359.2	4332.3	4017.1	4056.5	3974.2	4395.0
67.5°	3195.1	3229.1	3694.8	4395.0	4860.7	4799.8	4789.0	4364.6	4346.7	4194.4	4506.1
70°	2596.9	2638.1	3098.4	4083.4	4957.4	5313.8	5288.7	4851.7	4543.7	4074.4	3936.5
72.5°	1488.3	1570.7	2147.4	3144.9	4454.1	5457.1	5480.4	4930.5	4310.9	3426.1	2629.1
75°	487.1	510.4	891.9	1782.0	3331.2	4760.4	4719.2	4237.4	3478.1	2262.0	1187.4
77.5°	164.8	168.4	263.3	644.7	1846.5	3216.6	3239.9	3028.5	2136.6	940.3	327.7
80°	84.2	89.5	128.9	241.8	759.4	1751.6	1789.2	1726.5	895.5	277.6	78.8
82.5°	39.4	41.2	75.2	134.3	347.4	687.7	687.7	755.8	317.0	155.8	32.2
85°	14.3	14.3	39.4	77.0	146.9	229.2	231.0	232.8	166.6	116.4	14.3
87.5°	5.4	5.4	19.7	32.2	53.7	69.8	69.8	55.5	84.2	77.0	5.4
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°	750.4	750.4	750.4	750.4	750.4	750.4	750.4	750.4	750.4	750.4	750.4
2.5°	754.0	743.3	734.3	721.8	705.6	696.7	698.5	687.7	687.7	682.4	680.6
5°	754.0	743.3	720.0	698.5	684.1	666.2	657.3	650.1	650.1	646.5	648.3
7.5°	759.4	743.3	711.0	682.4	659.1	641.2	626.8	625.0	621.5	612.5	619.7
10°	791.6	768.3	714.6	675.2	648.3	628.6	603.6	596.4	585.6	569.5	571.3
12.5°	818.5	788.0	739.7	685.9	651.9	619.7	562.4	499.7	472.8	444.2	446.0
15°	857.9	814.9	748.6	700.3	651.9	548.0	444.2	363.6	320.6	299.1	299.1
17.5°	879.4	843.5	773.7	709.2	600.0	446.0	315.2	245.4	238.2	241.8	241.8
20°	924.1	875.8	802.4	716.4	514.0	317.0	231.0	223.9	227.5	234.6	232.8
22.5°	952.8	904.4	823.8	684.1	397.6	227.5	216.7	213.1	216.7	225.7	225.7
25°	976.1	945.6	857.9	605.3	281.2	206.0	202.4	206.0	209.5	213.1	218.5
27.5°	1033.4	981.4	881.2	503.3	202.4	191.6	195.2	197.0	197.0	202.4	204.2
30°	1071.0	1029.8	899.1	388.6	179.1	177.3	180.9	182.7	184.5	189.8	191.6
32.5°	1106.8	1092.5	875.8	263.3	168.4	164.8	163.0	164.8	171.9	177.3	175.5
35°	1158.8	1149.8	841.8	182.7	157.6	150.4	146.9	148.7	154.0	159.4	157.6
37.5°	1221.4	1230.4	759.4	159.4	146.9	137.9	130.7	130.7	132.5	137.9	139.7
40°	1294.9	1318.2	662.7	148.7	139.7	128.9	121.8	112.8	111.0	109.2	111.0
42.5°	1429.2	1456.1	553.4	141.5	128.9	116.4	105.7	94.9	86.0	80.6	80.6
45°	1617.2	1595.8	410.1	134.3	123.6	105.7	89.5	77.0	64.5	59.1	59.1
47.5°	1876.9	1803.5	281.2	127.2	114.6	93.1	75.2	59.1	48.4	43.0	43.0
50°	2236.9	1995.1	182.7	120.0	109.2	80.6	60.9	43.0	35.8	34.0	35.8
52.5°	2577.2	2190.4	145.1	111.0	98.5	69.8	46.6	35.8	32.2	30.4	30.4
55°	2890.6	2288.9	128.9	102.1	89.5	57.3	39.4	30.4	28.7	26.9	26.9
57.5°	3155.7	2322.9	111.0	89.5	71.6	44.8	32.2	26.9	23.3	21.5	21.5
60°	3384.9	2331.8	86.0	71.6	51.9	34.0	26.9	23.3	19.7	16.1	16.1
62.5°	3567.6	2269.2	60.9	50.1	35.8	26.9	23.3	16.1	10.7	7.2	5.4
65°	3712.7	2143.8	41.2	34.0	23.3	19.7	14.3	7.2	1.8	0.0	0.0
67.5°	3542.5	1859.0	32.2	25.1	16.1	12.5	7.2	1.8	0.0	0.0	0.0
70°	2888.8	1441.7	23.3	16.1	10.7	3.6	1.8	0.0	0.0	0.0	0.0
72.5°	1966.5	929.5	17.9	10.7	5.4	1.8	0.0	0.0	0.0	0.0	0.0
75°	882.9	333.1	12.5	7.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	214.9	78.8	9.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	57.3	19.7	5.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	21.5	7.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	1.8	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)