

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: P676749

Luminaire Tested: **CCW-SA-2E-827-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676749
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-827-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T4W distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7251.6 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

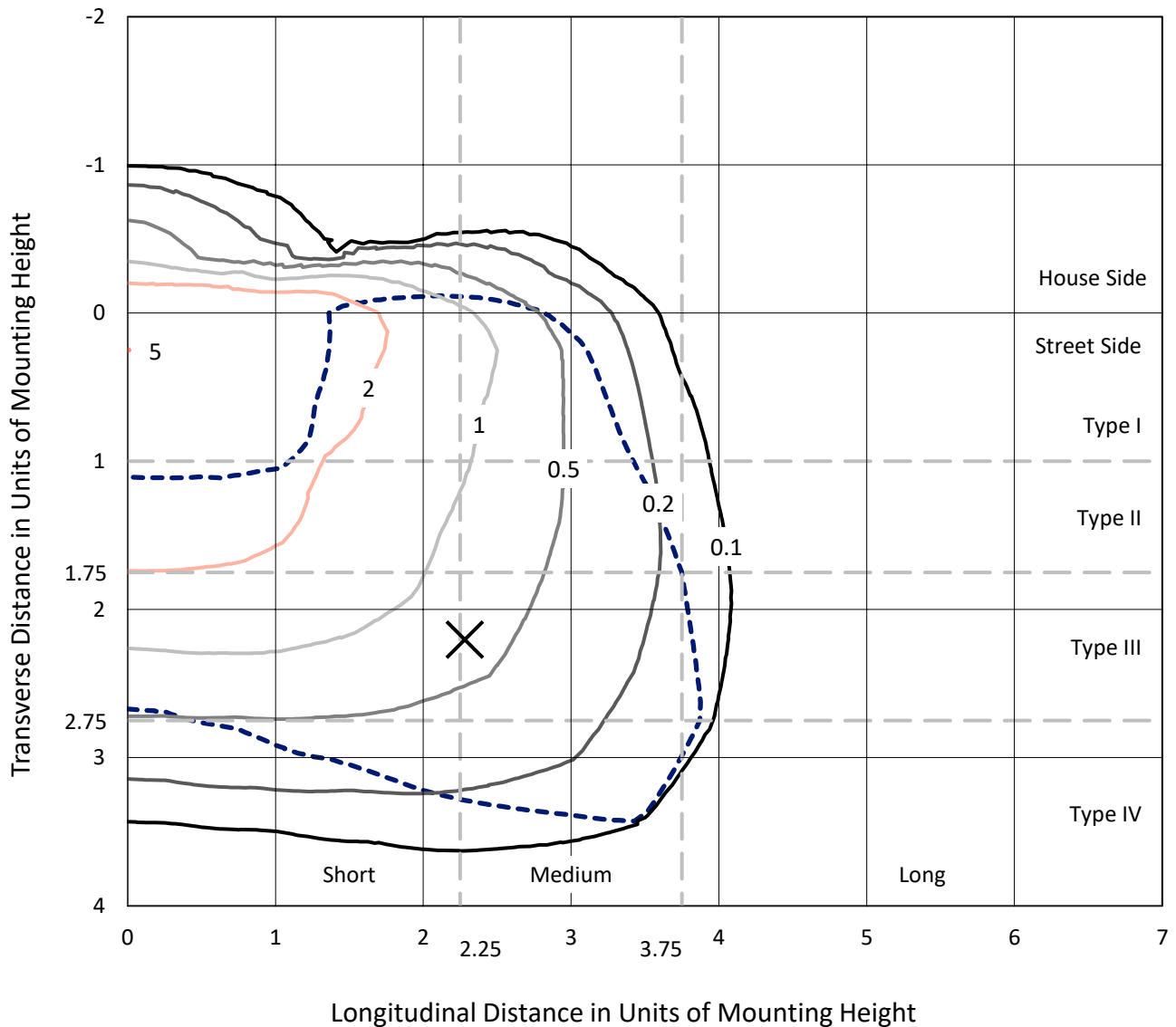
Input Watts (W): 106.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

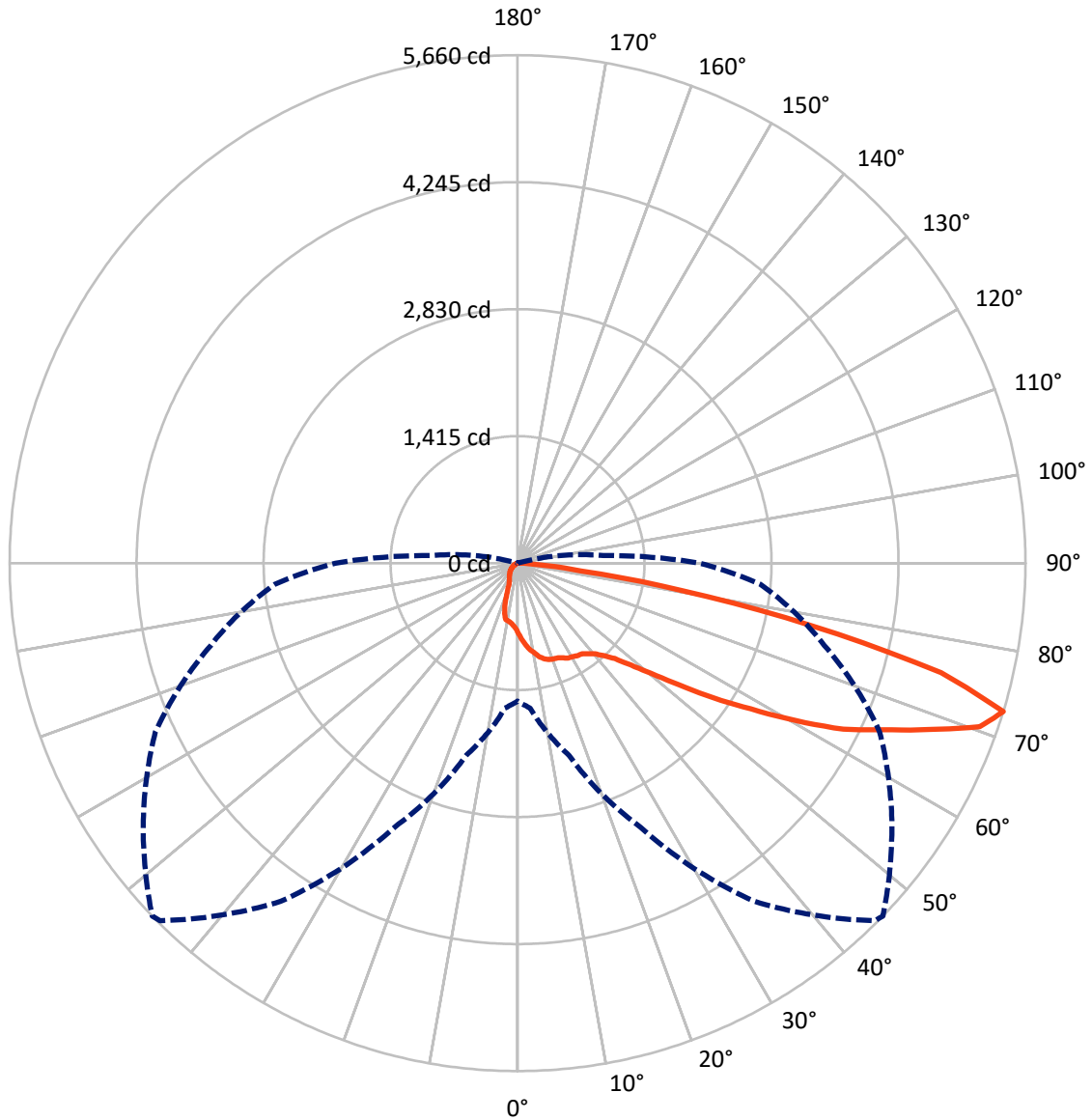
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Medium - N/A

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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	780.7	0.0	780.7
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	6470.9	0.0	6470.9
	% Fixture	89.2	0.0	89.2
Total	Lumens	7251.6	0.0	7251.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	1.1
10°-20°	234.2	3.2
20°-30°	366.6	5.1
30°-40°	513.4	7.1
40°-50°	846.7	11.7
50°-60°	1521.8	21.0
60°-70°	2205.7	30.4
70°-80°	1376.5	19.0
80°-90°	109.1	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°	7251.6	100.0
0°-180°	7251.6	100.0



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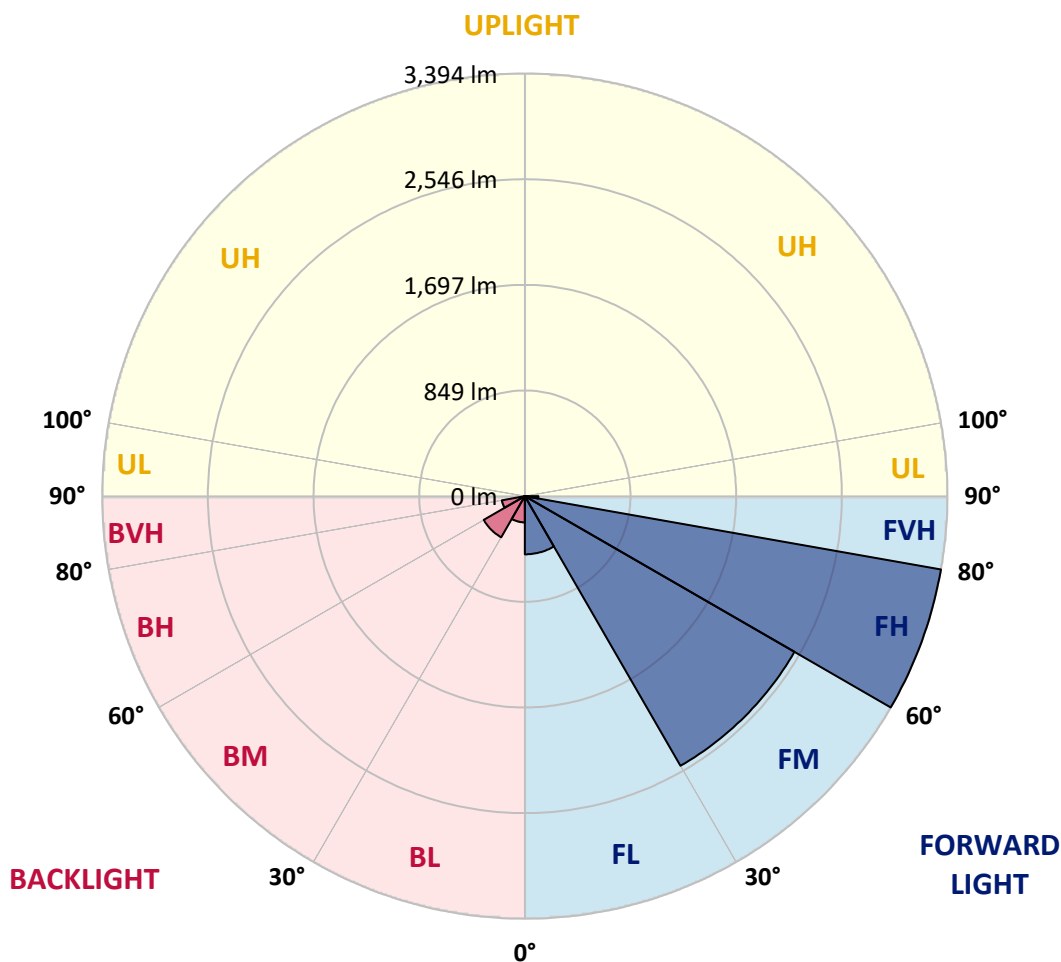
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	467.4	6.4			
FM (30°-60°)	2500.5	34.5			
FH (60°-80°)	3394.5	46.8			G2/5000
FVH (80°-90°)	108.5	1.5			G2/225
BL (0°-30°)	211.0	2.9	B1/500		
BM (30°-60°)	381.4	5.3	B1/1000		
BH (60°-80°)	187.7	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°	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0
2.5°	867.5	863.8	869.4	867.5	845.3	849.0	847.2	832.4	806.5	791.7	782.4
5°	967.4	976.6	969.2	952.6	939.6	913.8	910.1	886.0	845.3	819.4	791.7
7.5°	1071.0	1071.0	1056.2	1030.3	1002.5	974.8	971.1	930.4	895.3	850.9	812.0
10°	1148.7	1139.4	1128.3	1100.6	1069.1	1032.1	1013.6	984.0	945.2	891.6	841.6
12.5°	1217.1	1202.3	1183.8	1143.1	1106.1	1065.4	1069.1	1021.0	995.1	947.0	873.1
15°	1255.9	1243.0	1226.4	1189.4	1132.0	1113.5	1106.1	1076.5	1030.3	982.2	911.9
17.5°	1265.2	1255.9	1233.7	1185.7	1154.2	1132.0	1130.2	1095.0	1074.7	1034.0	956.3
20°	1246.7	1230.1	1213.4	1182.0	1152.4	1145.0	1139.4	1139.4	1113.5	1059.9	984.0
22.5°	1215.3	1196.8	1187.5	1169.0	1145.0	1143.1	1146.8	1143.1	1122.8	1087.6	1013.6
25°	1191.2	1182.0	1167.2	1161.6	1146.8	1174.6	1169.0	1163.5	1157.9	1117.2	1059.9
27.5°	1198.6	1196.8	1185.7	1163.5	1152.4	1182.0	1198.6	1200.5	1198.6	1157.9	1102.4
30°	1202.3	1193.1	1182.0	1176.4	1180.1	1209.7	1209.7	1250.4	1233.7	1193.1	1145.0
32.5°	1244.8	1239.3	1202.3	1189.4	1191.2	1226.4	1228.2	1268.9	1263.3	1235.6	1182.0
35°	1335.5	1298.5	1244.8	1207.9	1207.9	1254.1	1239.3	1298.5	1313.3	1268.9	1207.9
37.5°	1470.5	1442.8	1346.6	1263.3	1231.9	1265.2	1280.0	1313.3	1357.7	1318.8	1259.6
40°	1738.7	1733.2	1596.3	1416.9	1292.9	1322.5	1328.1	1379.9	1409.5	1355.8	1339.2
42.5°	2130.9	2103.1	1975.5	1692.5	1403.9	1391.0	1411.3	1444.6	1514.9	1470.5	1429.8
45°	2513.7	2500.8	2373.2	2056.9	1605.5	1527.9	1516.8	1575.9	1679.5	1631.4	1600.0
47.5°	2791.2	2765.3	2693.2	2426.8	1901.5	1688.8	1696.2	1755.4	1886.7	1849.7	1858.9
50°	3003.9	2991.0	2915.1	2769.0	2275.1	1942.2	1927.4	1986.6	2164.1	2188.2	2214.1
52.5°	3237.0	3261.0	3159.3	3035.4	2717.2	2282.5	2249.2	2269.6	2498.9	2554.4	2626.6
55°	3460.8	3499.6	3397.9	3381.3	3179.6	2659.9	2654.3	2606.2	2902.2	2909.6	2948.4
57.5°	3606.9	3594.0	3586.6	3677.2	3642.1	3092.7	3065.0	3016.9	3285.1	3237.0	3353.5
60°	3618.0	3655.0	3778.9	4002.8	4065.6	3601.4	3560.7	3429.3	3616.2	3501.5	3723.4
62.5°	3701.2	3730.8	3960.2	4269.1	4350.5	4049.0	4076.7	3743.8	3899.2	3808.5	4134.1
65°	3490.4	3582.9	4043.4	4476.3	4724.1	4502.2	4474.4	4148.9	4189.6	4104.5	4539.2
67.5°	3299.9	3335.0	3815.9	4539.2	5020.1	4957.2	4946.1	4507.7	4489.2	4332.0	4653.8
70°	2682.1	2724.6	3200.0	4217.3	5120.0	5488.1	5462.2	5010.8	4692.7	4208.1	4065.6
72.5°	1537.1	1622.2	2217.8	3248.1	4600.2	5636.0	5660.1	5092.2	4452.2	3538.5	2715.4
75°	503.1	527.2	921.2	1840.5	3440.4	4916.5	4874.0	4376.4	3592.1	2336.2	1226.4
77.5°	170.2	173.9	271.9	665.9	1907.0	3322.1	3346.1	3127.8	2206.7	971.1	338.5
80°	86.9	92.5	133.2	249.7	784.3	1809.0	1847.9	1783.1	924.9	286.7	81.4
82.5°	40.7	42.5	77.7	138.7	358.8	710.3	710.3	780.6	327.4	160.9	33.3
85°	14.8	14.8	40.7	79.5	151.7	236.8	238.6	240.5	172.0	120.2	14.8
87.5°	5.5	5.5	20.3	33.3	55.5	72.1	72.1	57.3	86.9	79.5	5.5
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°	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0
2.5°	778.7	767.6	758.4	745.4	728.8	719.5	721.4	710.3	710.3	704.7	702.9
5°	778.7	767.6	743.6	721.4	706.6	688.1	678.8	671.4	671.4	667.7	669.6
7.5°	784.3	767.6	734.3	704.7	680.7	662.2	647.4	645.5	641.8	632.6	640.0
10°	817.6	793.5	738.0	697.3	669.6	649.2	623.3	616.0	604.9	588.2	590.1
12.5°	845.3	813.9	763.9	708.4	673.3	640.0	580.8	516.1	488.3	458.7	460.6
15°	886.0	841.6	773.2	723.2	673.3	566.0	458.7	375.5	331.1	308.9	308.9
17.5°	908.2	871.2	799.1	732.5	619.6	460.6	325.5	253.4	246.0	249.7	249.7
20°	954.4	904.5	828.7	739.9	530.9	327.4	238.6	231.2	234.9	242.3	240.5
22.5°	984.0	934.1	850.9	706.6	410.6	234.9	223.8	220.1	223.8	233.1	233.1
25°	1008.1	976.6	886.0	625.2	290.4	212.7	209.0	212.7	216.4	220.1	225.7
27.5°	1067.3	1013.6	910.1	519.8	209.0	197.9	201.6	203.5	203.5	209.0	210.9
30°	1106.1	1063.6	928.5	401.4	185.0	183.1	186.8	188.7	190.5	196.1	197.9
32.5°	1143.1	1128.3	904.5	271.9	173.9	170.2	168.3	170.2	177.6	183.1	181.3
35°	1196.8	1187.5	869.4	188.7	162.8	155.4	151.7	153.5	159.1	164.6	162.8
37.5°	1261.5	1270.7	784.3	164.6	151.7	142.4	135.0	135.0	136.9	142.4	144.3
40°	1337.3	1361.4	684.4	153.5	144.3	133.2	125.8	116.5	114.7	112.8	114.7
42.5°	1476.1	1503.8	571.6	146.1	133.2	120.2	109.1	98.0	88.8	83.2	83.2
45°	1670.3	1648.1	423.6	138.7	127.6	109.1	92.5	79.5	66.6	61.0	61.0
47.5°	1938.5	1862.6	290.4	131.3	118.4	96.2	77.7	61.0	49.9	44.4	44.4
50°	2310.3	2060.6	188.7	123.9	112.8	83.2	62.9	44.4	37.0	35.1	37.0
52.5°	2661.7	2262.2	149.8	114.7	101.7	72.1	48.1	37.0	33.3	31.4	31.4
55°	2985.4	2363.9	133.2	105.4	92.5	59.2	40.7	31.4	29.6	27.7	27.7
57.5°	3259.2	2399.1	114.7	92.5	74.0	46.2	33.3	27.7	24.0	22.2	22.2
60°	3495.9	2408.3	88.8	74.0	53.6	35.1	27.7	24.0	20.3	16.6	16.6
62.5°	3684.6	2343.6	62.9	51.8	37.0	27.7	24.0	16.6	11.1	7.4	5.5
65°	3834.4	2214.1	42.5	35.1	24.0	20.3	14.8	7.4	1.8	0.0	0.0
67.5°	3658.7	1920.0	33.3	25.9	16.6	12.9	7.4	1.8	0.0	0.0	0.0
70°	2983.6	1489.0	24.0	16.6	11.1	3.7	1.8	0.0	0.0	0.0	0.0
72.5°	2031.0	960.0	18.5	11.1	5.5	1.8	0.0	0.0	0.0	0.0	0.0
75°	911.9	344.0	12.9	7.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	222.0	81.4	9.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	59.2	20.3	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.2	7.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	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)