

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: P676605

Luminaire Tested: **CCW-SA-2E-827-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676605
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-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T4FT distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

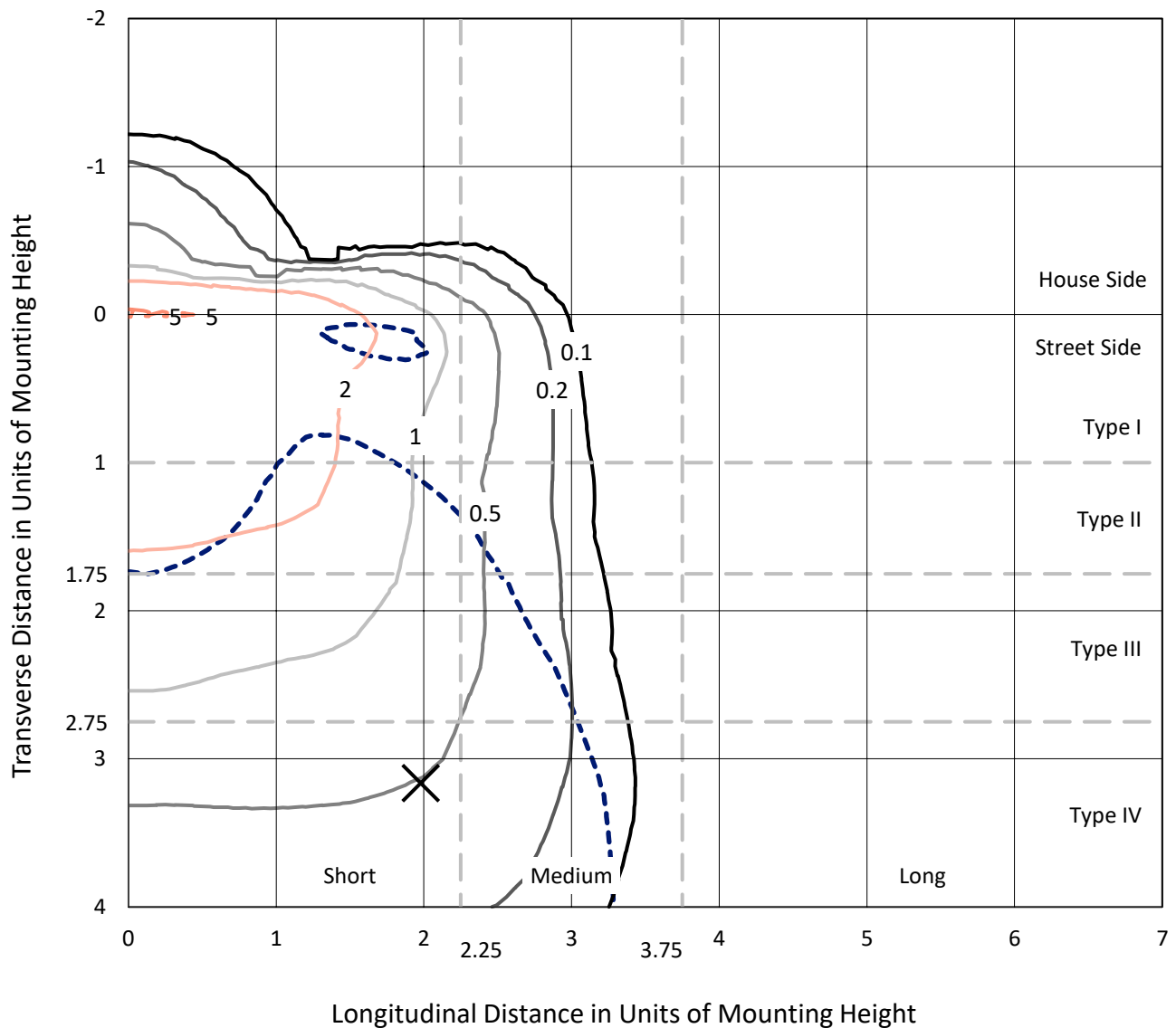
Lumens per Lamp: N/A
Luminaire Lumens: 7217.1 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

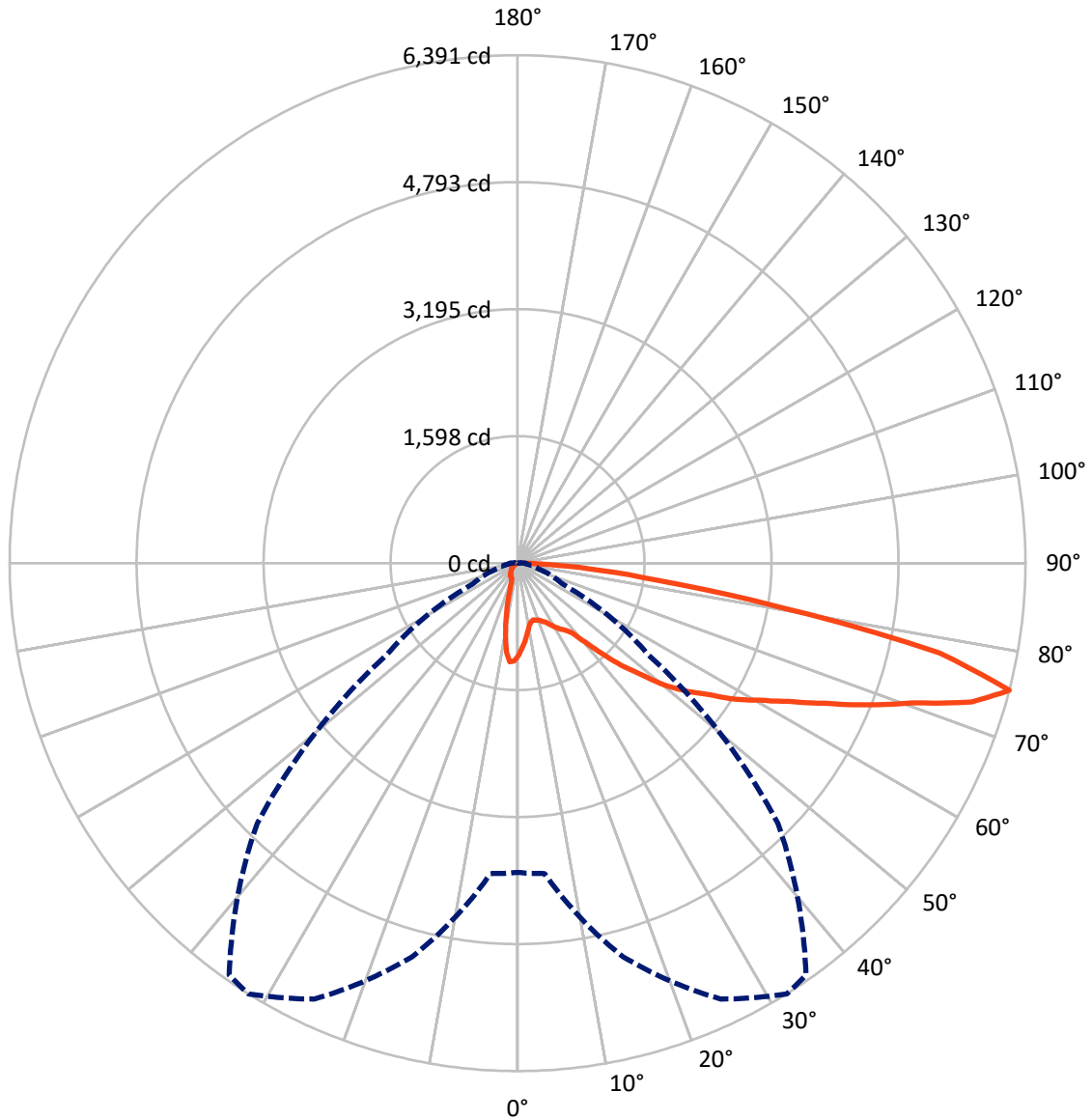
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.2 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	779.7	0.0	779.7
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	6437.4	0.0	6437.4
	% Fixture	89.2	0.0	89.2
Total	Lumens	7217.1	0.0	7217.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	1.4
10°-20°	232.5	3.2
20°-30°	348.1	4.8
30°-40°	534.4	7.4
40°-50°	934.5	12.9
50°-60°	1460.7	20.2
60°-70°	1888.4	26.2
70°-80°	1538.1	21.3
80°-90°	178.0	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°	7217.1	100.0
0°-180°	7217.1	100.0



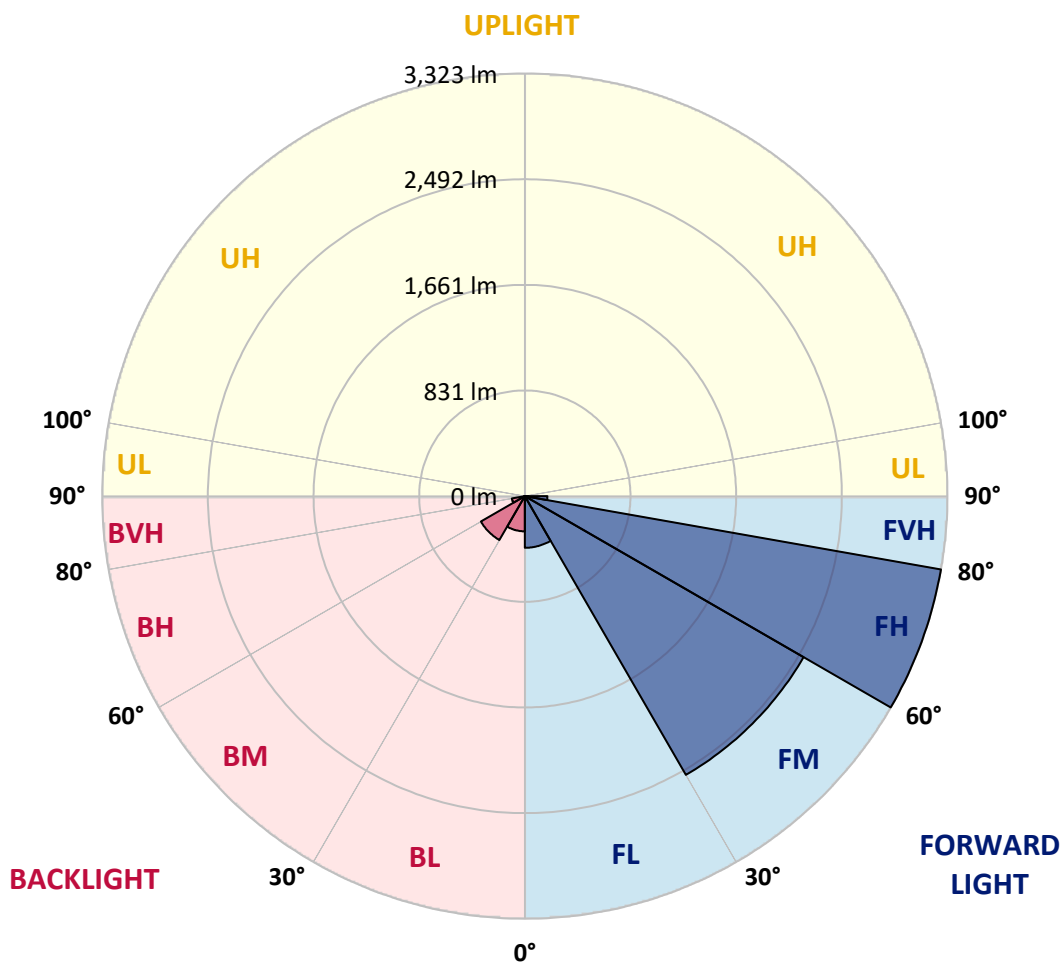
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	406.1	5.6			
FM (30°-60°)	2530.6	35.1			
FH (60°-80°)	3322.9	46.0			G2/5000
FVH (80°-90°)	177.9	2.5			G2/225
BL (0°-30°)	277.0	3.8	B1/500		
BM (30°-60°)	398.9	5.5	B1/1000		
BH (60°-80°)	103.7	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°	1165.3	1165.3	1165.3	1165.3	1165.3	1165.3	1165.3	1165.3	1165.3	1165.3	1165.3
2.5°	1045.1	1059.9	1058.1	1067.3	1069.2	1074.7	1087.7	1087.7	1124.7	1150.5	1167.2
5°	950.8	941.5	945.2	956.3	984.1	982.2	1013.7	1030.3	1074.7	1111.7	1150.5
7.5°	834.2	832.4	839.8	865.7	886.0	902.7	936.0	978.5	1037.7	1093.2	1161.6
10°	760.2	756.5	771.3	778.7	802.8	813.9	865.7	932.3	1002.6	1082.1	1161.6
12.5°	743.6	730.7	738.1	736.2	758.4	763.9	813.9	895.3	980.4	1078.4	1176.4
15°	752.8	743.6	736.2	736.2	741.8	745.5	799.1	871.2	967.4	1084.0	1209.7
17.5°	782.4	776.9	754.7	732.5	756.5	756.5	789.8	865.7	969.3	1100.6	1250.4
20°	817.6	812.0	773.2	747.3	763.9	782.4	817.6	878.6	974.8	1113.6	1313.3
22.5°	856.4	856.4	802.8	773.2	795.4	797.2	860.1	919.3	997.0	1146.8	1354.0
25°	904.5	900.8	849.0	815.7	823.1	843.5	900.8	963.7	1037.7	1193.1	1429.9
27.5°	967.4	961.9	900.8	867.5	876.8	899.0	963.7	1026.6	1074.7	1211.6	1494.6
30°	1019.2	1013.7	963.7	913.8	934.1	954.5	1030.3	1085.8	1121.0	1246.7	1568.6
32.5°	1030.3	1021.1	987.8	965.6	987.8	1026.6	1085.8	1143.1	1196.8	1335.5	1709.2
35°	1157.9	1124.7	1037.7	1002.6	1035.9	1048.8	1146.8	1248.6	1300.4	1405.8	1866.4
37.5°	1402.1	1370.7	1256.0	1157.9	1111.7	1126.5	1254.1	1379.9	1429.9	1537.1	2038.4
40°	1701.8	1650.0	1527.9	1396.6	1302.2	1283.7	1367.0	1551.9	1600.0	1701.8	2264.1
42.5°	2044.0	1994.0	1805.4	1650.0	1553.8	1529.7	1542.7	1751.7	1792.4	1853.5	2412.1
45°	2290.0	2264.1	2051.4	1912.6	1836.8	1810.9	1779.5	1970.0	2021.8	2042.1	2626.6
47.5°	2432.4	2413.9	2295.5	2201.2	2099.5	2071.7	2092.1	2273.3	2238.2	2254.8	2832.0
50°	2623.0	2574.9	2413.9	2443.5	2423.2	2415.8	2450.9	2530.5	2478.7	2430.6	3055.8
52.5°	2776.5	2691.4	2578.6	2650.7	2682.1	2709.9	2833.8	2893.0	2661.8	2587.8	3200.1
55°	2870.8	2789.4	2819.0	2885.6	2918.9	3046.5	3192.7	3148.3	2782.0	2713.6	3392.4
57.5°	2955.9	2961.5	3041.0	3061.3	3231.5	3253.7	3534.9	3390.6	2867.1	2828.3	3468.3
60°	3161.2	3140.9	3205.6	3337.0	3499.7	3623.7	3891.9	3553.4	2909.7	2887.5	3447.9
62.5°	3531.2	3405.4	3427.6	3594.1	3832.7	3967.7	4097.2	3627.4	2898.6	2896.7	3386.9
65°	4001.0	3856.7	3790.1	3945.5	4254.4	4445.0	4328.4	3710.6	2824.6	2876.4	3159.4
67.5°	4391.3	4393.2	4269.2	4356.2	4759.4	4800.1	4546.7	3694.0	2700.6	2715.4	2604.5
70°	4840.8	4901.8	4792.7	5064.6	5266.2	5292.1	4796.4	3557.1	2434.3	2047.7	1496.5
72.5°	4955.5	4986.9	5327.3	5745.3	5972.9	5980.3	5042.4	3100.2	1601.9	904.5	464.3
75°	3891.9	3921.5	5127.5	6052.4	6390.9	6326.2	4631.8	2012.5	623.4	264.5	111.0
77.5°	2171.6	2180.9	3183.4	4892.6	5421.6	5160.8	3244.5	784.3	251.6	151.7	51.8
80°	593.8	697.4	1180.1	2412.1	3311.1	3250.0	1544.5	255.3	162.8	118.4	24.0
82.5°	142.4	153.5	379.2	1067.3	1749.9	1825.7	460.6	129.5	112.8	98.0	12.9
85°	51.8	57.3	116.5	519.8	899.0	825.0	138.7	64.7	83.2	75.8	5.5
87.5°	18.5	18.5	37.0	170.2	262.7	197.9	46.2	22.2	42.5	46.2	1.8
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°	1165.3	1165.3	1165.3	1165.3	1165.3	1165.3	1165.3	1165.3	1165.3	1165.3	1165.3
2.5°	1169.0	1169.0	1194.9	1217.1	1224.5	1233.8	1224.5	1244.9	1243.0	1233.8	1237.5
5°	1170.9	1204.2	1226.4	1241.2	1248.6	1246.7	1250.4	1228.2	1215.3	1206.0	1196.8
7.5°	1180.1	1211.6	1252.3	1248.6	1228.2	1185.7	1152.4	1093.2	1035.9	1034.0	1024.8
10°	1211.6	1239.3	1263.4	1248.6	1174.6	1045.1	939.7	860.1	788.0	754.7	758.4
12.5°	1233.8	1285.6	1274.5	1198.6	1045.1	874.9	719.6	603.0	538.3	477.2	477.2
15°	1280.0	1298.5	1294.8	1126.5	886.0	682.6	493.9	375.5	307.1	279.3	275.6
17.5°	1324.4	1344.8	1281.9	1017.4	728.8	458.7	299.7	233.1	223.8	220.1	222.0
20°	1379.9	1381.8	1270.8	908.2	547.5	290.4	214.6	209.0	210.9	209.0	209.0
22.5°	1439.1	1452.1	1231.9	754.7	364.4	210.9	199.8	201.6	201.6	201.6	207.2
25°	1516.8	1496.5	1170.9	608.6	238.6	194.2	194.2	196.1	196.1	196.1	197.9
27.5°	1568.6	1540.8	1093.2	438.4	186.8	183.1	186.8	186.8	190.5	190.5	190.5
30°	1675.9	1603.7	995.2	283.0	168.3	173.9	177.6	181.3	183.1	186.8	188.7
32.5°	1759.1	1659.2	873.1	188.7	153.5	157.2	166.5	173.9	181.3	179.4	179.4
35°	1910.8	1749.9	760.2	149.8	140.6	140.6	149.8	162.8	173.9	177.6	177.6
37.5°	2084.7	1823.9	603.0	136.9	129.5	129.5	135.0	149.8	164.6	172.0	168.3
40°	2229.0	1908.9	445.8	127.6	120.2	120.2	123.9	135.0	151.7	164.6	166.5
42.5°	2330.7	1971.8	301.5	118.4	112.8	111.0	116.5	122.1	135.0	153.5	157.2
45°	2423.2	2005.1	186.8	109.1	105.4	105.4	105.4	111.0	120.2	136.9	140.6
47.5°	2587.8	2042.1	135.0	101.7	96.2	98.0	99.9	101.7	109.1	112.8	114.7
50°	2726.5	2069.9	111.0	94.3	90.6	92.5	92.5	92.5	96.2	90.6	90.6
52.5°	2832.0	2042.1	94.3	86.9	83.2	85.1	83.2	83.2	79.5	72.1	72.1
55°	2909.7	1992.2	75.8	79.5	79.5	79.5	75.8	70.3	62.9	57.3	57.3
57.5°	2930.0	1907.1	59.2	66.6	72.1	72.1	64.7	57.3	48.1	42.5	40.7
60°	2898.6	1722.1	44.4	48.1	55.5	57.3	51.8	42.5	33.3	27.7	27.7
62.5°	2785.7	1576.0	35.1	31.4	40.7	42.5	37.0	27.7	18.5	12.9	11.1
65°	2571.2	1350.3	25.9	22.2	27.7	29.6	24.0	12.9	5.5	1.8	0.0
67.5°	2062.5	1017.4	16.6	14.8	18.5	18.5	11.1	3.7	0.0	0.0	0.0
70°	1141.3	571.6	11.1	7.4	9.2	5.5	1.8	0.0	0.0	0.0	0.0
72.5°	329.3	162.8	5.5	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	88.8	38.8	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	38.8	14.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.6	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.2	1.8	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°	1.8	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)