

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: P675023

Luminaire Tested: **CCW-SA-1B-830-U-T3**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675023
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-830-U-T3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
T3 distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

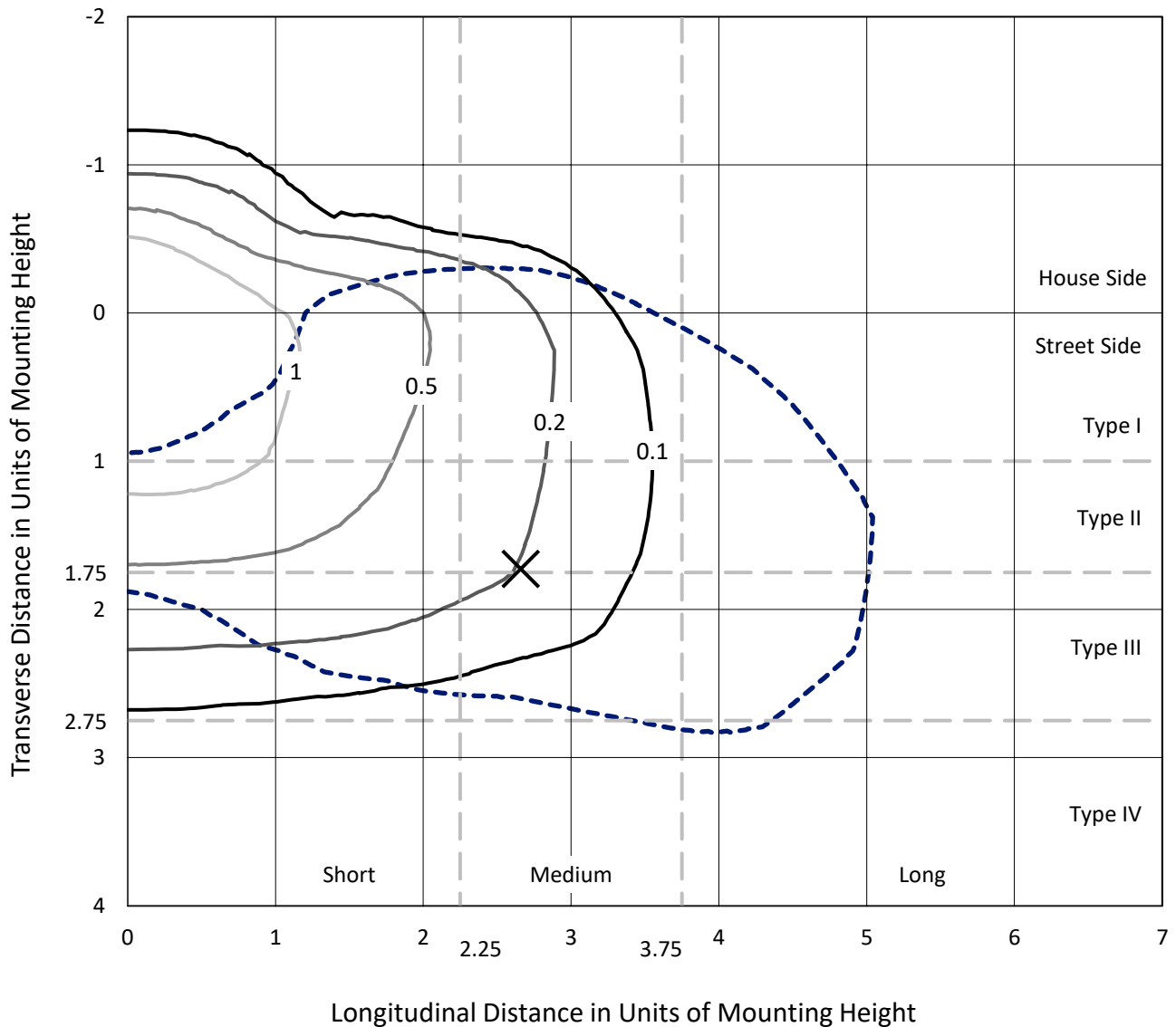
Lumens per Lamp: N/A
Luminaire Lumens: 2772.7 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 24
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

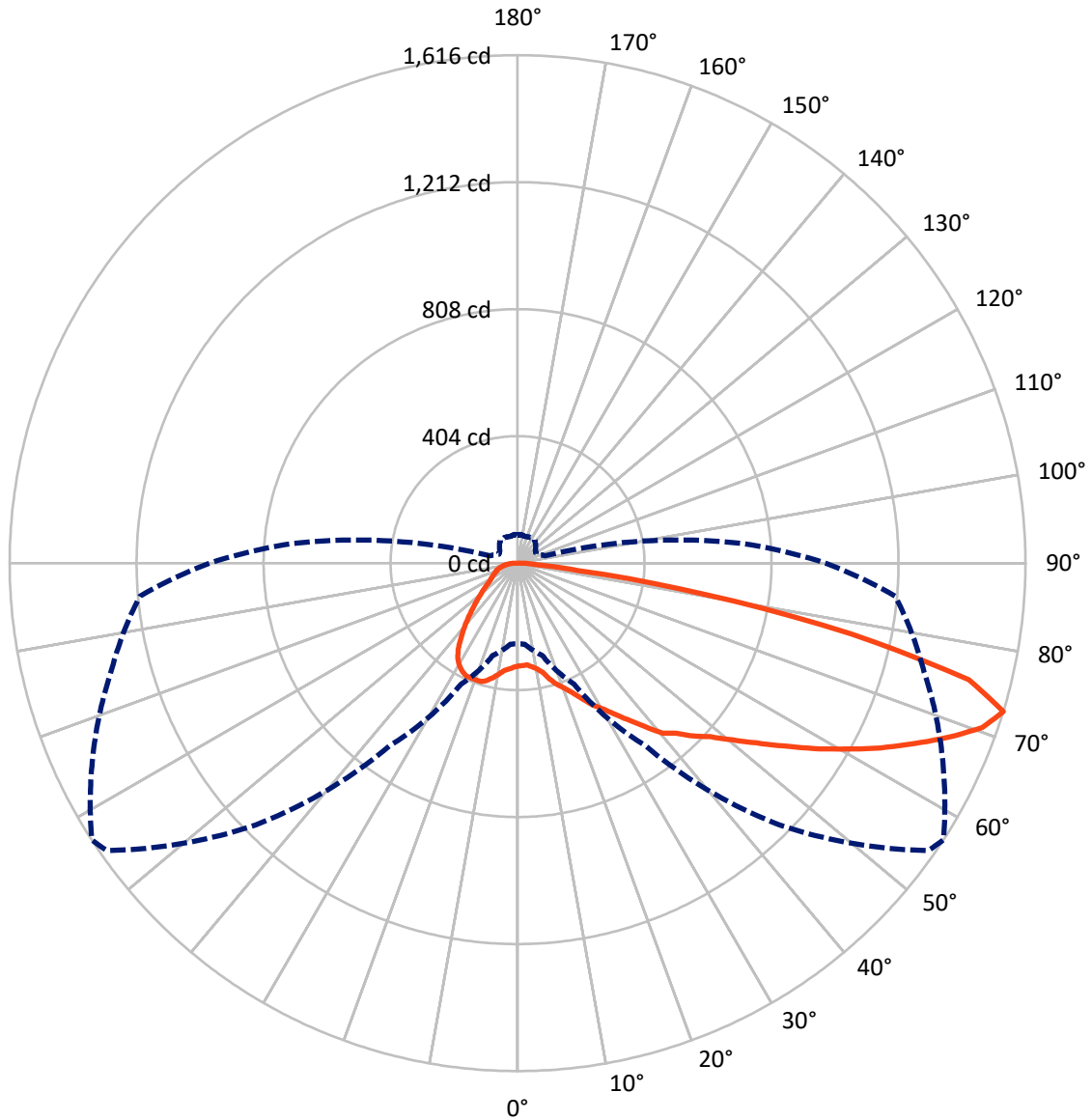
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	647.5	0.0	647.5
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	2125.2	0.0	2125.2
	% Fixture	76.6	0.0	76.6
Total	Lumens	2772.7	0.0	2772.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.5	1.2
10°-20°	109.5	3.9
20°-30°	200.1	7.2
30°-40°	293.6	10.6
40°-50°	404.3	14.6
50°-60°	554.4	20.0
60°-70°	668.3	24.1
70°-80°	445.2	16.1
80°-90°	64.8	2.3
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°	2772.7	100.0
0°-180°	2772.7	100.0



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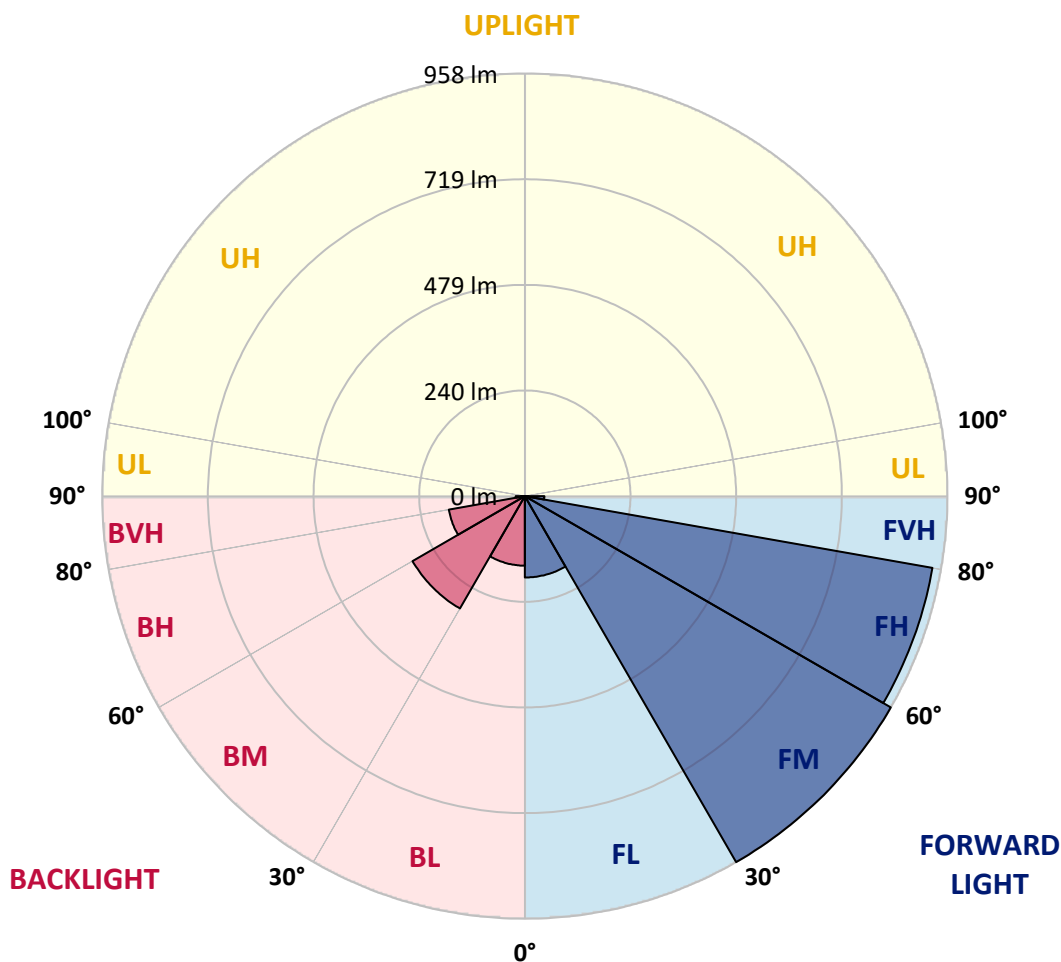
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	184.5	6.7			
FM (30°-60°)	958.2	34.6			
FH (60°-80°)	938.4	33.8			G1/1800
FVH (80°-90°)	44.2	1.6			G1/100
BL (0°-30°)	157.7	5.7	B1/500		
BM (30°-60°)	294.1	10.6	B1/1000		
BH (60°-80°)	175.1	6.3	B1/500		G1/500
BVH (80°-90°)	20.7	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3
2.5°	321.2	322.2	324.2	323.2	323.2	320.2	325.3	326.3	324.2	325.3	327.3
5°	321.2	323.2	326.3	324.2	325.3	324.2	322.2	325.3	325.3	326.3	329.3
7.5°	338.4	337.4	337.4	334.3	333.3	332.3	333.3	333.3	331.3	332.3	332.3
10°	357.6	357.6	355.6	355.6	353.5	348.5	343.4	342.4	339.4	340.4	340.4
12.5°	377.8	379.8	381.8	375.8	373.7	365.7	362.6	356.6	356.6	354.5	353.5
15°	403.0	400.0	402.0	400.0	394.9	386.9	381.8	382.8	375.8	373.7	370.7
17.5°	425.2	426.3	423.2	421.2	412.1	406.1	407.1	406.1	397.0	393.9	388.9
20°	451.5	450.5	450.5	444.4	436.4	428.3	425.2	424.2	426.3	420.2	408.1
22.5°	478.8	474.7	474.7	469.7	458.6	453.5	451.5	447.5	449.5	444.4	426.3
25°	501.0	501.0	508.1	498.0	491.9	481.8	477.8	478.8	479.8	469.7	448.5
27.5°	530.3	525.2	532.3	527.3	524.2	513.1	508.1	511.1	509.1	498.0	468.7
30°	567.7	568.7	564.6	557.6	553.5	545.5	542.4	539.4	542.4	528.3	490.9
32.5°	614.1	617.2	607.1	599.0	591.9	583.8	577.8	574.7	577.8	556.6	508.1
35°	667.7	670.7	662.6	653.5	645.5	625.2	620.2	615.1	604.0	569.7	524.2
37.5°	717.2	713.1	711.1	711.1	696.0	666.7	663.6	660.6	639.4	596.0	546.5
40°	750.5	755.6	753.5	751.5	749.5	722.2	716.2	711.1	675.8	635.3	577.8
42.5°	787.9	784.8	792.9	796.0	788.9	780.8	756.6	739.4	708.1	675.8	624.2
45°	832.3	830.3	833.3	844.4	834.3	837.4	797.0	784.8	745.4	726.3	682.8
47.5°	871.7	876.8	891.9	894.9	886.9	901.0	844.4	825.2	800.0	784.8	743.4
50°	888.9	894.9	929.3	950.5	951.5	973.7	891.9	883.8	849.5	855.6	819.2
52.5°	874.7	893.9	935.3	990.9	1025.2	1047.5	954.5	950.5	919.2	938.4	902.0
55°	887.9	906.1	933.3	1011.1	1098.0	1103.0	1041.4	1026.3	994.9	1021.2	987.9
57.5°	893.9	883.8	935.3	1033.3	1151.5	1164.6	1124.2	1113.1	1088.9	1114.1	1094.9
60°	846.5	858.6	907.1	1027.3	1154.5	1230.3	1217.2	1201.0	1178.8	1202.0	1190.9
62.5°	792.9	801.0	853.5	990.9	1171.7	1277.8	1307.1	1294.9	1263.6	1283.8	1303.0
65°	725.2	726.3	784.8	926.3	1138.4	1305.0	1385.8	1384.8	1362.6	1357.6	1387.9
67.5°	642.4	650.5	697.0	857.6	1092.9	1335.3	1463.6	1478.8	1434.3	1394.9	1406.1
70°	492.9	501.0	545.5	703.0	1000.0	1326.3	1559.6	1567.7	1480.8	1380.8	1352.5
72.5°	256.6	258.6	304.0	424.2	709.1	1177.8	1594.9	1616.2	1492.9	1339.4	1206.1
75°	84.8	84.8	104.0	161.6	334.3	753.5	1444.4	1482.8	1433.3	1236.4	986.9
77.5°	50.5	51.5	61.6	80.8	133.3	301.0	1018.2	1085.9	1172.7	1051.5	721.2
80°	36.4	37.4	46.5	55.6	79.8	97.0	511.1	605.0	720.2	676.8	384.8
82.5°	27.3	27.3	36.4	41.4	54.5	57.6	142.4	194.9	311.1	242.4	106.1
85°	28.3	28.3	28.3	29.3	37.4	33.3	59.6	63.6	90.9	79.8	29.3
87.5°	10.1	11.1	28.3	19.2	19.2	14.1	23.2	25.3	32.3	33.3	11.1
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°	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3
2.5°	328.3	328.3	329.3	329.3	331.3	333.3	336.4	334.3	334.3	335.4	334.3
5°	327.3	328.3	331.3	336.4	338.4	339.4	345.5	345.5	345.5	347.5	347.5
7.5°	331.3	333.3	338.4	343.4	344.4	347.5	355.6	357.6	362.6	364.6	365.7
10°	341.4	344.4	348.5	354.5	358.6	362.6	368.7	375.8	374.7	380.8	381.8
12.5°	356.6	355.6	362.6	368.7	372.7	378.8	380.8	380.8	380.8	380.8	382.8
15°	368.7	370.7	376.8	380.8	385.9	384.8	380.8	376.8	377.8	376.8	376.8
17.5°	386.9	386.9	391.9	392.9	394.9	384.8	378.8	378.8	381.8	381.8	379.8
20°	405.0	404.0	406.1	405.0	391.9	379.8	378.8	379.8	380.8	379.8	378.8
22.5°	422.2	420.2	417.2	413.1	389.9	378.8	376.8	371.7	366.7	366.7	363.6
25°	437.4	435.4	427.3	415.1	388.9	372.7	362.6	350.5	344.4	341.4	345.5
27.5°	451.5	447.5	436.4	415.1	379.8	356.6	337.4	322.2	317.2	313.1	317.2
30°	470.7	463.6	448.5	412.1	365.7	331.3	305.0	286.9	281.8	275.8	277.8
32.5°	487.9	471.7	458.6	403.0	347.5	303.0	272.7	254.5	245.5	240.4	244.4
35°	506.1	489.9	462.6	388.9	319.2	268.7	238.4	221.2	214.1	207.1	207.1
37.5°	524.2	515.1	468.7	362.6	284.8	236.4	209.1	196.0	183.8	170.7	170.7
40°	562.6	550.5	475.8	332.3	250.5	205.0	185.9	168.7	156.6	138.4	137.4
42.5°	603.0	576.8	475.8	296.0	220.2	182.8	164.6	146.5	124.2	113.1	114.1
45°	654.5	624.2	462.6	263.6	189.9	164.6	144.4	121.2	111.1	104.0	104.0
47.5°	719.2	671.7	446.5	228.3	165.7	148.5	123.2	109.1	102.0	96.0	94.9
50°	796.0	715.1	426.3	198.0	145.5	133.3	112.1	101.0	94.9	90.9	90.9
52.5°	876.8	778.8	412.1	170.7	129.3	113.1	104.0	97.0	91.9	88.9	87.9
55°	958.6	842.4	402.0	141.4	114.1	104.0	102.0	96.0	93.9	90.9	88.9
57.5°	1050.5	894.9	400.0	121.2	102.0	100.0	104.0	99.0	96.0	92.9	89.9
60°	1149.5	965.7	381.8	105.0	96.0	98.0	101.0	96.0	93.9	90.9	88.9
62.5°	1247.5	1018.2	332.3	92.9	89.9	91.9	96.0	91.9	88.9	89.9	90.9
65°	1287.9	1022.2	257.6	83.8	82.8	83.8	89.9	88.9	85.9	91.9	91.9
67.5°	1247.5	985.9	181.8	75.8	75.8	80.8	90.9	92.9	89.9	98.0	97.0
70°	1155.5	896.0	123.2	70.7	72.7	85.9	93.9	91.9	87.9	98.0	96.0
72.5°	980.8	717.2	89.9	65.7	68.7	81.8	92.9	90.9	87.9	91.9	87.9
75°	736.4	510.1	70.7	59.6	60.6	73.7	96.0	90.9	82.8	80.8	77.8
77.5°	491.9	315.1	54.5	52.5	52.5	64.6	91.9	84.8	74.7	71.7	70.7
80°	234.3	126.3	43.4	44.4	45.5	55.6	83.8	75.8	67.7	63.6	63.6
82.5°	74.7	47.5	36.4	36.4	36.4	45.5	69.7	63.6	58.6	55.6	50.5
85°	26.3	26.3	31.3	32.3	29.3	33.3	57.6	54.5	48.5	40.4	39.4
87.5°	10.1	15.2	21.2	25.3	18.2	23.2	41.4	38.4	35.4	26.3	25.3
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)