

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: P675604

Luminaire Tested: **CCW-SA-2A-830-U-SL3**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675604
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-830-U-SL3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL3 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

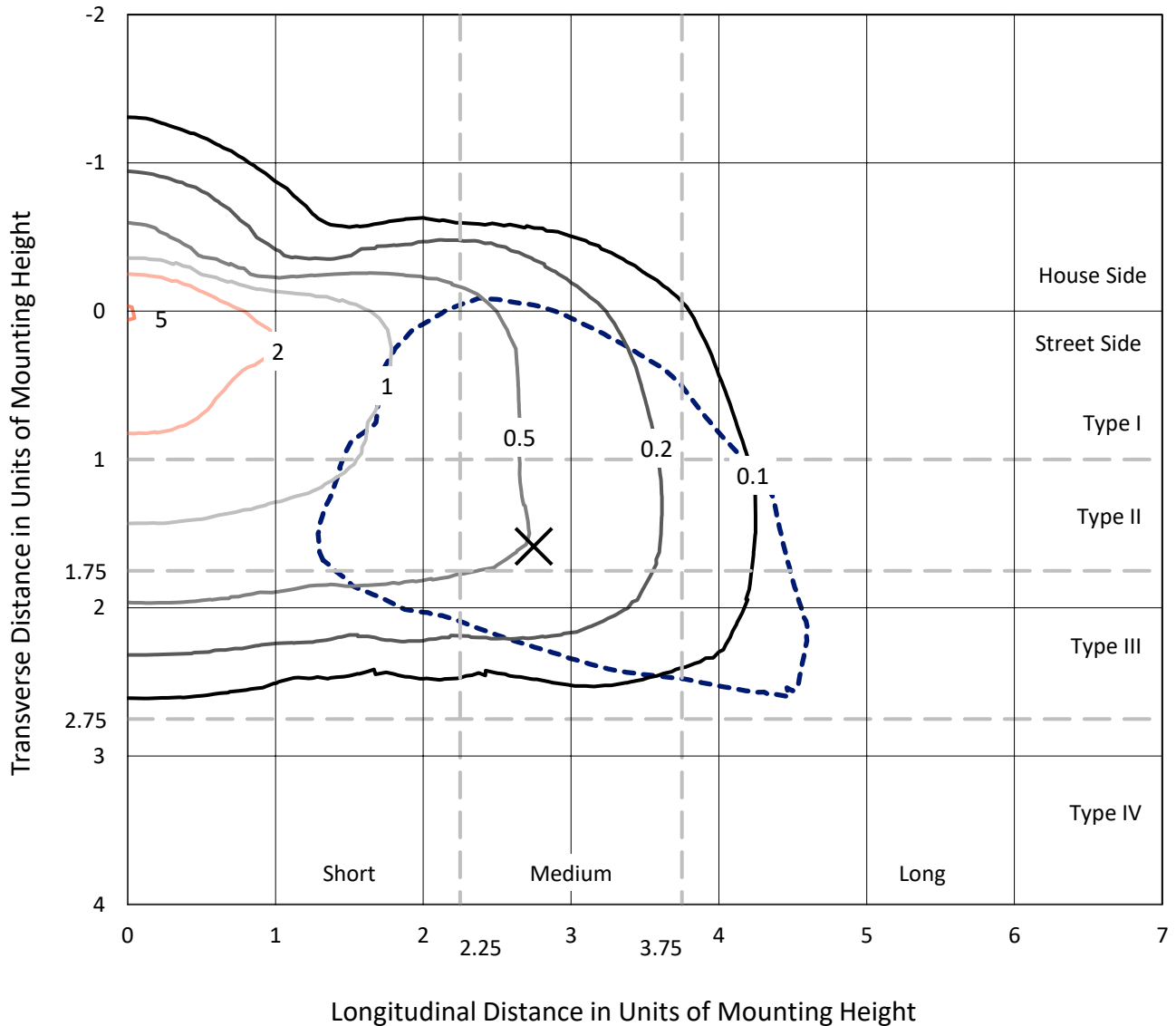
Lumens per Lamp: N/A
Luminaire Lumens: 4298.8 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 36.2
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

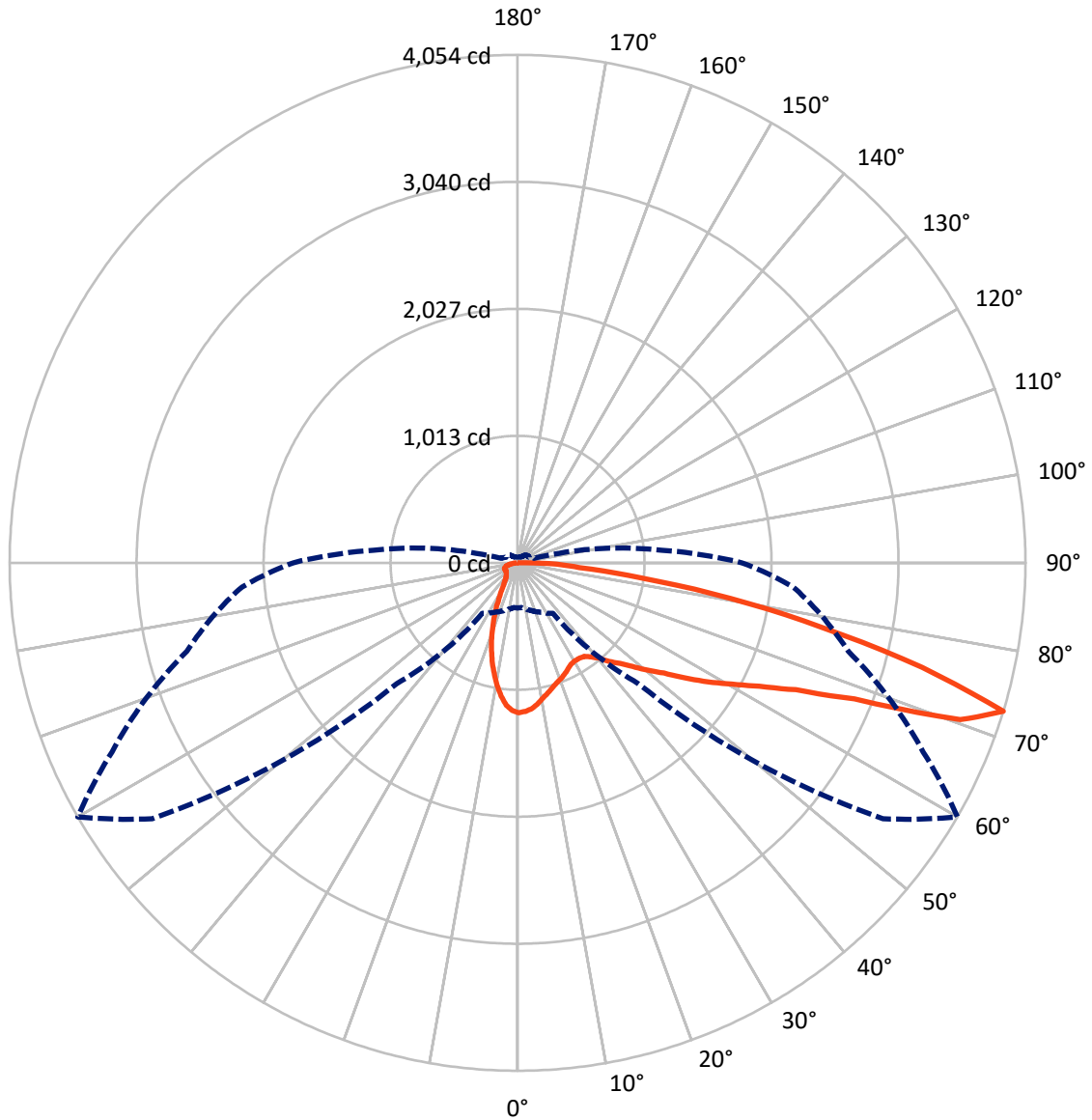
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	738.4	0.0	738.4
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	3560.3	0.0	3560.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	4298.8	0.0	4298.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.8	2.4
10°-20°	235.3	5.5
20°-30°	301.1	7.0
30°-40°	385.2	9.0
40°-50°	528.3	12.3
50°-60°	764.1	17.8
60°-70°	1048.2	24.4
70°-80°	786.6	18.3
80°-90°	146.2	3.4
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°	4298.8	100.0
0°-180°	4298.8	100.0

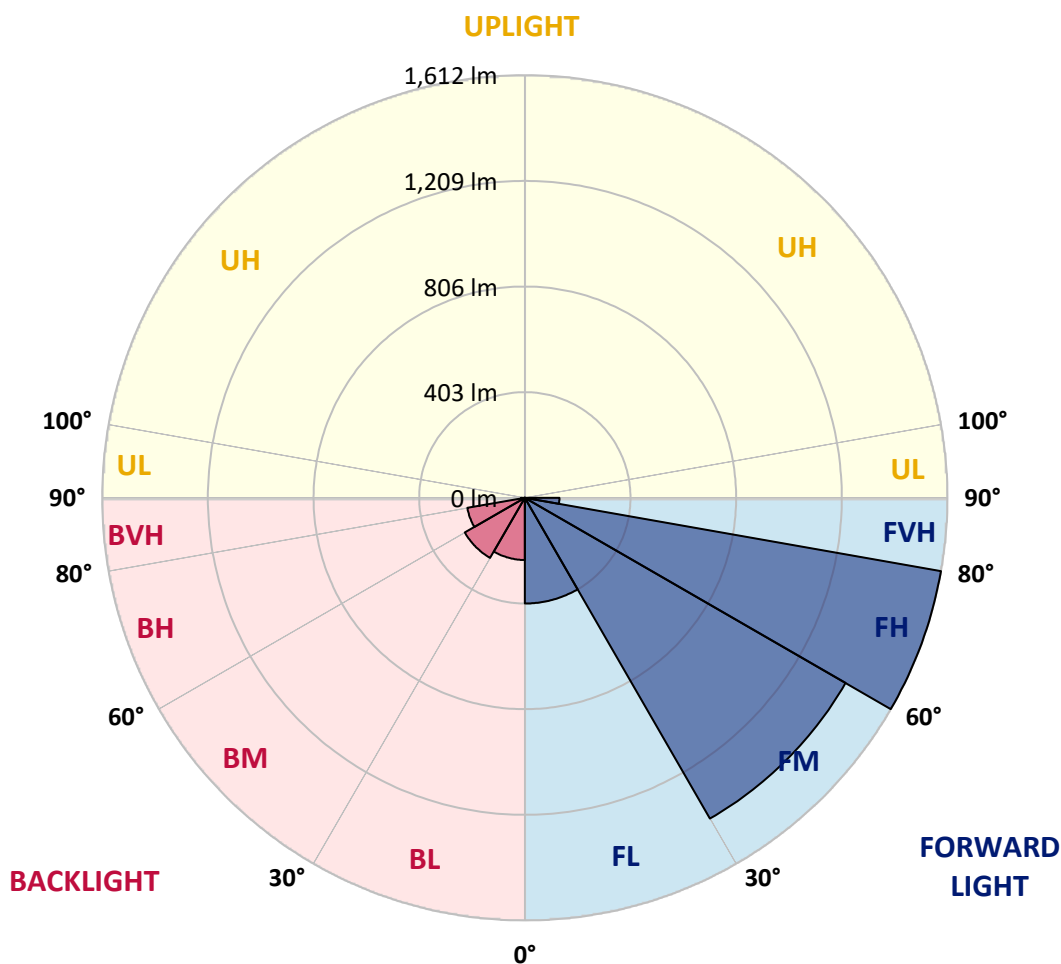


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	403.1	9.4			
FM (30°-60°)	1413.0	32.9			
FH (60°-80°)	1612.3	37.5			G1/1800
FVH (80°-90°)	132.0	3.1			G2/225
BL (0°-30°)	237.0	5.5	B1/500		
BM (30°-60°)	264.6	6.2	B1/1000		
BH (60°-80°)	222.5	5.2	B1/500		G1/500
BVH (80°-90°)	14.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0
2.5°	1171.4	1182.6	1185.8	1185.8	1195.4	1184.2	1200.2	1187.4	1190.6	1195.4	1192.2
5°	1115.4	1134.6	1123.4	1144.2	1136.2	1150.6	1169.8	1169.8	1165.0	1174.6	1166.6
7.5°	1061.0	1054.6	1073.8	1073.8	1086.6	1105.8	1121.8	1137.8	1139.4	1142.6	1141.0
10°	987.4	995.4	1005.0	1017.8	1033.8	1053.0	1086.6	1099.4	1102.6	1121.8	1117.0
12.5°	926.6	937.8	944.2	969.8	984.2	1011.4	1049.8	1067.4	1069.0	1096.2	1096.2
15°	881.7	888.2	902.6	912.2	944.2	982.6	1019.4	1035.4	1053.0	1081.8	1073.8
17.5°	851.3	859.3	865.7	878.5	909.0	941.0	998.6	1008.2	1029.0	1070.6	1061.0
20°	833.7	835.3	844.9	852.9	880.1	910.6	961.8	987.4	1014.6	1051.4	1041.8
22.5°	836.9	830.5	828.9	840.1	844.9	873.7	936.2	963.4	1001.8	1045.0	1029.0
25°	843.3	844.9	841.7	832.1	833.7	859.3	901.0	936.2	979.4	1043.4	1011.4
27.5°	859.3	867.3	854.5	844.9	835.3	844.9	888.2	913.8	961.8	1051.4	1009.8
30°	875.3	883.3	880.1	865.7	846.5	843.3	873.7	905.8	952.2	1057.8	1009.8
32.5°	899.4	910.6	899.4	904.2	881.7	867.3	878.5	907.4	961.8	1080.2	1011.4
35°	926.6	936.2	939.4	928.2	923.4	896.2	902.6	917.0	971.4	1105.8	1027.4
37.5°	957.0	968.2	977.8	979.4	963.4	947.4	944.2	952.2	995.4	1150.6	1045.0
40°	977.8	984.2	1003.4	1019.4	1024.2	1001.8	1000.2	1000.2	1038.6	1190.6	1077.0
42.5°	1013.0	1009.8	1037.0	1065.8	1073.8	1061.0	1064.2	1077.0	1099.4	1248.2	1128.2
45°	1030.6	1027.4	1059.4	1107.4	1144.2	1137.8	1141.0	1145.8	1166.6	1339.4	1214.6
47.5°	1054.6	1057.8	1104.2	1158.6	1197.0	1219.4	1237.0	1235.4	1251.4	1432.2	1310.6
50°	1078.6	1085.0	1141.0	1198.6	1265.8	1304.2	1329.8	1347.4	1363.4	1529.9	1421.0
52.5°	1125.0	1131.4	1193.8	1256.2	1342.6	1398.6	1462.6	1461.0	1462.6	1627.5	1531.5
55°	1192.2	1193.8	1230.6	1302.6	1419.4	1521.9	1609.9	1619.5	1592.3	1749.1	1657.9
57.5°	1269.0	1275.4	1307.4	1361.8	1480.3	1640.3	1774.7	1793.9	1720.3	1848.3	1773.1
60°	1341.0	1345.8	1395.4	1457.8	1585.9	1789.1	1941.1	1963.5	1883.5	1969.9	1893.1
62.5°	1259.4	1283.4	1371.4	1513.9	1771.5	2014.7	2152.4	2166.8	2041.9	2093.2	2021.1
65°	1008.2	1024.2	1150.6	1381.0	1784.3	2424.4	2478.8	2440.4	2259.6	2251.6	2214.8
67.5°	561.7	574.5	660.9	902.6	1502.7	2578.0	3181.3	2899.7	2597.2	2490.0	2477.2
70°	443.3	446.5	457.7	507.3	833.7	2272.4	3735.0	3747.8	3149.3	2818.1	2533.2
72.5°	360.1	358.5	392.1	435.3	492.9	1363.4	3560.6	4053.5	3571.8	2731.7	2206.8
75°	275.2	280.0	323.3	385.7	451.3	641.7	2656.5	3335.0	3346.2	2546.0	1861.1
77.5°	209.6	211.2	259.2	340.9	441.7	452.9	1733.1	2485.2	2496.4	1971.5	1025.8
80°	156.8	156.8	196.8	288.0	430.5	417.7	1067.4	1723.5	1560.3	692.9	224.0
82.5°	89.6	96.0	131.2	219.2	390.5	401.7	601.7	987.4	659.3	188.8	104.0
85°	48.0	49.6	80.0	147.2	321.7	384.1	459.3	491.3	262.4	100.8	48.0
87.5°	17.6	17.6	36.8	75.2	203.2	284.8	364.9	313.7	150.4	46.4	24.0
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°	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0	1197.0
2.5°	1195.4	1189.0	1184.2	1189.0	1171.4	1163.4	1173.0	1168.2	1158.6	1153.8	1150.6
5°	1171.4	1163.4	1155.4	1150.6	1131.4	1112.2	1102.6	1083.4	1067.4	1072.2	1062.6
7.5°	1145.8	1137.8	1113.8	1091.4	1053.0	1014.6	997.0	969.8	960.2	952.2	947.4
10°	1113.8	1099.4	1062.6	1017.8	961.8	918.6	873.7	841.7	808.1	793.7	798.5
12.5°	1073.8	1065.8	1008.2	939.4	860.9	788.9	736.1	684.9	640.1	616.1	609.7
15°	1056.2	1032.2	949.0	857.7	758.5	668.9	590.5	500.9	448.1	422.5	422.5
17.5°	1037.0	992.2	893.0	768.1	654.5	539.3	428.9	347.3	305.7	291.2	291.2
20°	1006.6	957.0	827.3	683.3	545.7	406.5	307.3	262.4	249.6	240.0	241.6
22.5°	984.2	923.4	766.5	600.1	432.1	302.5	241.6	227.2	222.4	219.2	220.8
25°	958.6	883.3	702.5	510.5	339.3	238.4	209.6	203.2	206.4	208.0	208.0
27.5°	937.8	849.7	636.9	414.5	256.0	201.6	188.8	187.2	193.6	196.8	198.4
30°	923.4	819.3	572.9	326.5	204.8	179.2	172.8	172.8	180.8	184.0	185.6
32.5°	909.0	793.7	504.1	249.6	174.4	160.0	158.4	160.0	164.8	164.8	166.4
35°	913.8	769.7	438.5	201.6	156.8	147.2	147.2	147.2	148.8	150.4	150.4
37.5°	923.4	763.3	368.1	169.6	144.0	137.6	137.6	136.0	137.6	136.0	137.6
40°	933.0	753.7	304.1	150.4	136.0	131.2	129.6	126.4	124.8	124.8	126.4
42.5°	973.0	766.5	249.6	137.6	129.6	126.4	121.6	118.4	116.8	116.8	116.8
45°	1024.2	790.5	206.4	131.2	124.8	116.8	113.6	112.0	108.8	110.4	112.0
47.5°	1101.0	827.3	180.8	126.4	120.0	110.4	107.2	104.0	104.0	107.2	107.2
50°	1201.8	888.2	164.8	121.6	115.2	105.6	100.8	99.2	99.2	104.0	104.0
52.5°	1310.6	958.6	158.4	120.0	110.4	100.8	96.0	94.4	94.4	100.8	100.8
55°	1419.4	1045.0	163.2	120.0	107.2	96.0	91.2	88.0	89.6	94.4	94.4
57.5°	1539.5	1137.8	187.2	120.0	104.0	94.4	88.0	83.2	84.8	86.4	86.4
60°	1670.7	1259.4	228.8	120.0	102.4	91.2	83.2	76.8	76.8	78.4	78.4
62.5°	1803.5	1379.4	288.0	121.6	104.0	89.6	76.8	70.4	68.8	70.4	70.4
65°	1977.9	1571.5	347.3	121.6	108.8	86.4	72.0	64.0	62.4	62.4	64.0
67.5°	2222.8	1709.1	268.8	116.8	112.0	86.4	67.2	59.2	56.0	56.0	56.0
70°	2093.2	1441.8	171.2	108.8	107.2	89.6	64.0	54.4	51.2	49.6	49.6
72.5°	1792.3	1153.8	137.6	102.4	99.2	88.0	60.8	51.2	46.4	44.8	44.8
75°	1437.0	910.6	120.0	92.8	86.4	73.6	56.0	46.4	43.2	40.0	40.0
77.5°	704.1	380.9	91.2	81.6	73.6	56.0	49.6	43.2	38.4	35.2	35.2
80°	176.0	132.8	67.2	64.0	54.4	43.2	40.0	36.8	33.6	30.4	30.4
82.5°	94.4	78.4	48.0	43.2	36.8	30.4	30.4	28.8	27.2	24.0	22.4
85°	48.0	46.4	32.0	28.8	24.0	19.2	20.8	20.8	19.2	14.4	14.4
87.5°	25.6	25.6	16.0	12.8	11.2	9.6	9.6	9.6	8.0	6.4	6.4
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)