

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: P675171

Luminaire Tested: **CCW-SA-1F-830-U-T4FT**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675171
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-830-U-T4FT
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
T4FT distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

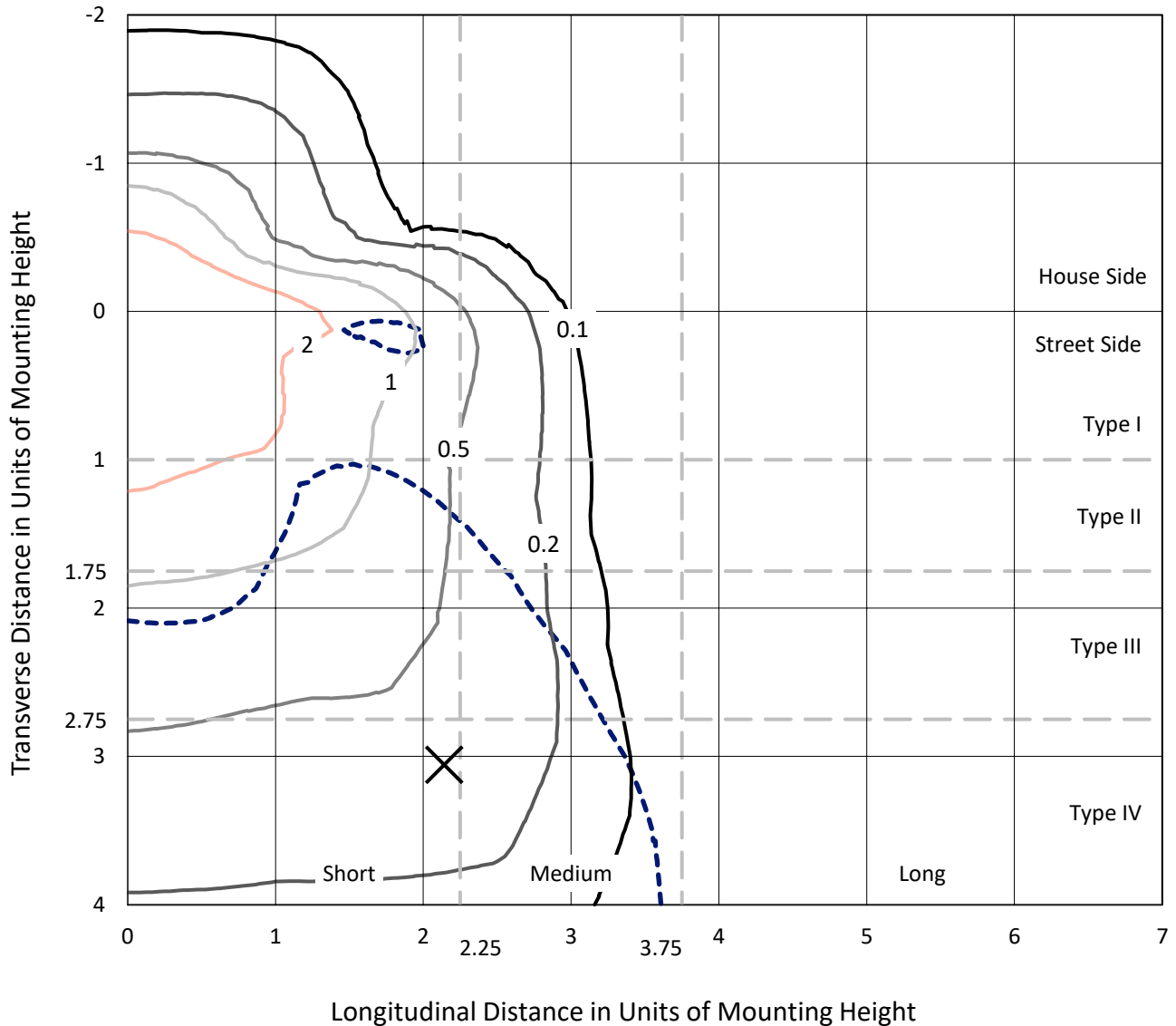
Lumens per Lamp: N/A
Luminaire Lumens: 5954 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

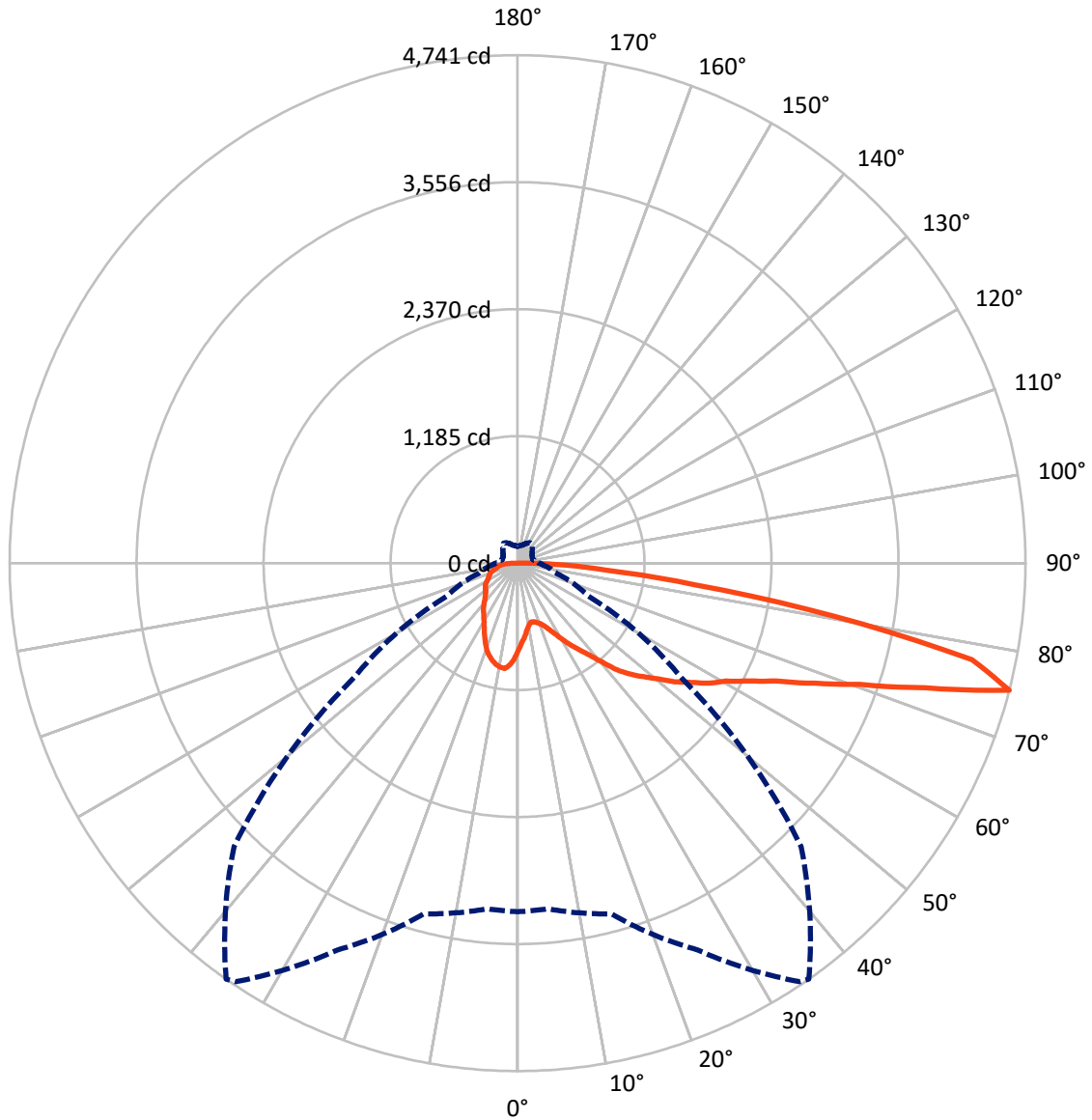
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1368.4	0.0	1368.4
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	4585.6	0.0	4585.6
	% Fixture	77.0	0.0	77.0
Total	Lumens	5954.0	0.0	5954.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	1.3
10°-20°	225.6	3.8
20°-30°	374.3	6.3
30°-40°	554.9	9.3
40°-50°	800.1	13.4
50°-60°	1100.2	18.5
60°-70°	1359.0	22.8
70°-80°	1243.3	20.9
80°-90°	218.9	3.7
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°	5954.0	100.0
0°-180°	5954.0	100.0



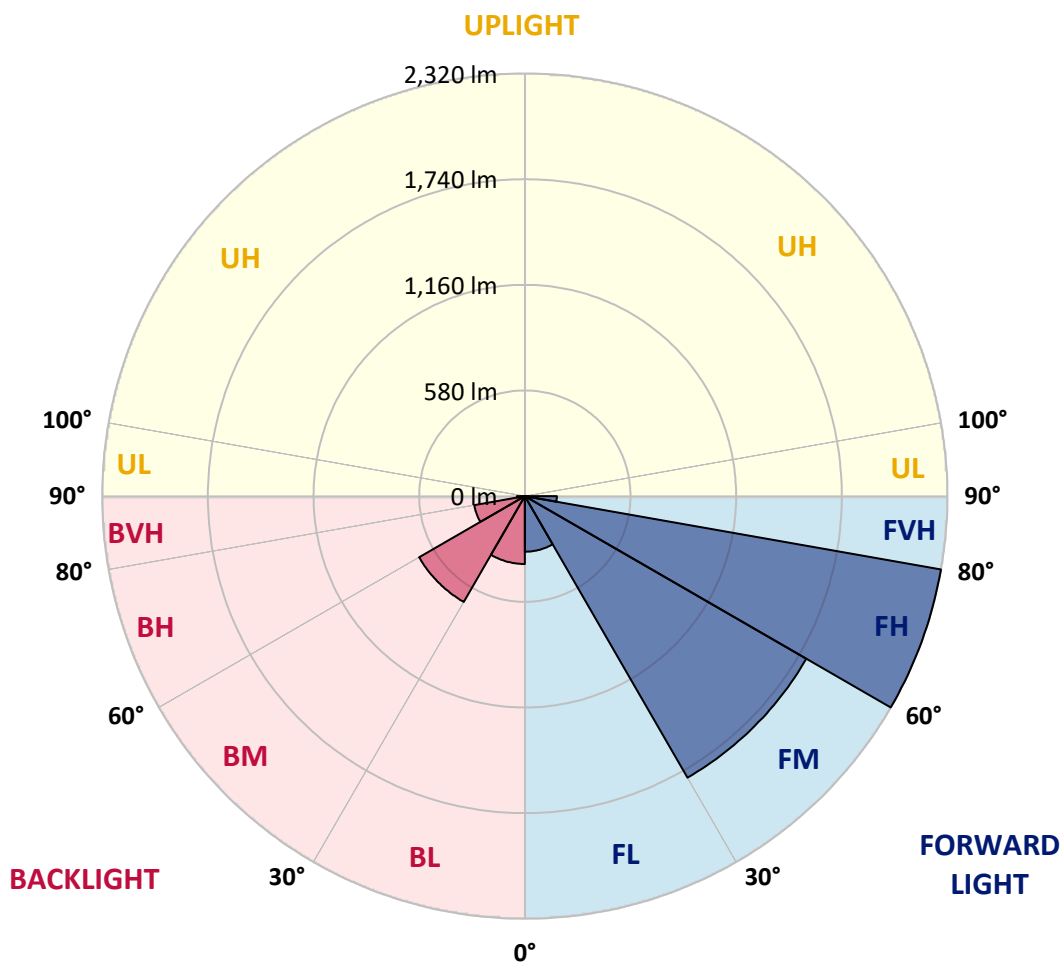
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	305.2	5.1			
FM (30°-60°)	1784.6	30.0			
FH (60°-80°)	2320.1	39.0			G2/5000
FVH (80°-90°)	175.7	3.0			G2/225
BL (0°-30°)	372.4	6.3	B1/500		
BM (30°-60°)	670.5	11.3	B1/1000		
BH (60°-80°)	282.2	4.7	B1/500		G1/500
BVH (80°-90°)	43.2	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7
2.5°	739.0	732.4	739.0	743.4	743.4	743.4	749.9	769.7	782.8	791.6	807.0
5°	662.2	664.4	668.8	679.8	686.4	690.7	701.7	725.8	745.6	774.1	807.0
7.5°	594.3	598.6	605.2	616.2	631.5	629.3	653.5	686.4	723.6	760.9	809.2
10°	559.2	567.9	570.1	572.3	587.7	587.7	620.6	657.8	703.9	752.1	809.2
12.5°	565.7	565.7	559.2	557.0	565.7	563.6	592.1	635.9	686.4	754.3	817.9
15°	585.5	585.5	572.3	559.2	572.3	567.9	592.1	627.1	686.4	756.5	835.5
17.5°	611.8	614.0	598.6	576.7	581.1	583.3	600.8	633.7	686.4	760.9	859.6
20°	664.4	653.5	629.3	594.3	609.6	603.0	629.3	657.8	699.5	778.5	894.7
22.5°	710.5	710.5	664.4	633.7	635.9	635.9	660.0	684.2	719.2	802.6	921.0
25°	785.0	780.6	723.6	677.6	682.0	684.2	697.3	725.8	752.1	815.7	953.9
27.5°	879.3	868.4	811.3	758.7	741.2	747.8	754.3	776.3	782.8	837.7	993.3
30°	980.2	964.8	916.6	833.3	824.5	826.7	815.7	828.9	820.1	872.7	1032.8
32.5°	1043.8	1043.8	997.7	936.3	912.2	912.2	874.9	883.7	883.7	905.6	1103.0
35°	1098.6	1094.2	1063.5	1017.5	1002.1	993.3	956.1	969.2	947.3	969.2	1201.7
37.5°	1181.9	1168.8	1155.6	1124.9	1094.2	1087.6	1067.9	1076.7	1046.0	1035.0	1313.5
40°	1278.4	1271.8	1258.7	1245.5	1214.8	1212.6	1190.7	1199.5	1166.6	1124.9	1425.3
42.5°	1420.9	1401.2	1359.5	1348.6	1355.2	1363.9	1355.2	1339.8	1280.6	1228.0	1545.9
45°	1563.5	1532.8	1453.8	1436.3	1486.7	1480.2	1517.4	1510.9	1414.4	1331.0	1673.1
47.5°	1655.6	1629.3	1565.7	1554.7	1576.6	1585.4	1697.2	1677.5	1524.0	1425.3	1795.9
50°	1721.4	1723.6	1640.2	1668.7	1697.2	1697.2	1837.6	1835.4	1657.8	1541.6	1956.0
52.5°	1817.8	1787.1	1752.1	1778.4	1817.8	1839.8	2013.0	1964.8	1741.1	1640.2	2135.8
55°	1868.3	1855.1	1824.4	1870.5	1953.8	1964.8	2149.0	2111.7	1835.4	1756.5	2320.0
57.5°	1888.0	1899.0	1949.4	1969.2	2085.4	2113.9	2271.8	2219.1	1923.1	1901.2	2462.5
60°	1975.7	1960.4	2028.4	2107.3	2219.1	2234.5	2425.3	2311.2	2008.6	1995.5	2508.6
62.5°	2153.4	2113.9	2151.2	2245.4	2401.1	2420.9	2587.5	2434.0	2045.9	2059.1	2506.4
65°	2412.1	2383.6	2328.8	2403.3	2622.6	2651.1	2778.3	2539.3	2034.9	2037.1	2328.8
67.5°	2716.9	2670.9	2613.8	2659.9	2927.4	2993.2	3010.7	2585.3	1958.2	1914.3	1894.6
70°	2984.4	2953.7	2916.5	2995.4	3368.2	3392.3	3300.2	2556.8	1745.5	1537.2	1263.1
72.5°	3234.4	3219.1	3241.0	3537.0	3964.6	3980.0	3572.1	2377.0	1379.3	931.9	587.7
75°	3254.1	3238.8	3390.1	3984.4	4712.4	4740.9	3741.0	1863.9	728.0	379.4	247.8
77.5°	2203.8	2249.8	2532.7	3488.8	4328.6	4335.2	3059.0	866.2	300.4	223.7	173.2
80°	541.6	600.8	953.9	1804.7	2918.6	2991.0	1675.3	291.6	197.4	171.0	129.4
82.5°	197.4	214.9	388.1	815.7	1640.2	1668.7	585.5	157.9	142.5	131.6	94.3
85°	94.3	96.5	184.2	401.3	828.9	820.1	210.5	94.3	103.1	89.9	57.0
87.5°	39.5	39.5	81.1	186.4	366.2	355.2	68.0	43.9	59.2	52.6	28.5
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°	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7
2.5°	817.9	822.3	839.9	853.0	866.2	877.1	894.7	894.7	905.6	905.6	905.6
5°	815.7	839.9	868.4	899.1	918.8	938.5	956.1	958.3	964.8	973.6	975.8
7.5°	824.5	848.6	894.7	938.5	962.6	971.4	993.3	986.8	986.8	986.8	993.3
10°	842.0	868.4	931.9	971.4	989.0	991.2	984.6	980.2	967.0	962.6	956.1
12.5°	855.2	901.2	964.8	995.5	989.0	982.4	967.0	945.1	929.8	925.4	925.4
15°	888.1	934.1	993.3	1004.3	993.3	958.3	938.5	914.4	901.2	881.5	890.3
17.5°	916.6	969.2	1021.9	1008.7	986.8	931.9	903.4	868.4	850.8	828.9	828.9
20°	953.9	1002.1	1048.2	1013.1	964.8	905.6	859.6	815.7	791.6	769.7	774.1
22.5°	995.5	1039.4	1063.5	995.5	931.9	864.0	800.4	758.7	728.0	714.9	719.2
25°	1028.4	1076.7	1072.3	967.0	892.5	811.3	741.2	701.7	695.1	682.0	682.0
27.5°	1070.1	1120.5	1065.7	931.9	826.7	728.0	684.2	668.8	668.8	662.2	666.6
30°	1124.9	1160.0	1050.4	881.5	743.4	653.5	631.5	640.3	655.7	649.1	651.3
32.5°	1214.8	1210.4	1037.2	824.5	655.7	581.1	596.4	614.0	627.1	633.7	638.1
35°	1302.5	1274.0	1021.9	747.8	574.5	546.0	559.2	578.9	603.0	609.6	611.8
37.5°	1390.2	1339.8	995.5	653.5	524.1	515.3	528.5	539.4	559.2	563.6	567.9
40°	1482.3	1383.7	949.5	561.4	482.4	482.4	491.2	493.4	504.3	510.9	515.3
42.5°	1563.5	1425.3	866.2	475.8	438.6	453.9	456.1	451.7	442.9	447.3	449.5
45°	1662.2	1471.4	769.7	414.4	405.7	425.4	429.8	412.3	396.9	388.1	383.7
47.5°	1758.6	1519.6	686.4	364.0	375.0	405.7	405.7	385.9	359.6	337.7	328.9
50°	1846.4	1567.9	618.4	333.3	344.3	390.3	394.7	357.4	328.9	302.6	298.2
52.5°	1993.3	1649.0	548.2	309.2	326.7	379.4	377.2	344.3	307.0	278.5	276.3
55°	2122.7	1730.1	456.1	285.1	309.2	364.0	370.6	331.1	280.7	254.4	250.0
57.5°	2216.9	1749.9	364.0	260.9	291.6	346.5	355.2	304.8	263.1	241.2	239.0
60°	2234.5	1673.1	296.0	241.2	267.5	322.3	328.9	289.5	250.0	232.4	228.1
62.5°	2153.4	1526.2	252.2	223.7	247.8	298.2	311.4	271.9	236.8	221.5	219.3
65°	1969.2	1311.3	221.5	208.3	234.6	280.7	296.0	258.8	225.9	212.7	210.5
67.5°	1559.1	1006.5	197.4	197.4	217.1	263.1	285.1	250.0	214.9	206.1	203.9
70°	1019.7	605.2	179.8	182.0	203.9	247.8	271.9	239.0	201.7	199.5	195.2
72.5°	438.6	278.5	160.1	166.7	184.2	221.5	252.2	223.7	186.4	179.8	173.2
75°	201.7	168.8	144.7	149.1	164.5	195.2	228.1	206.1	173.2	162.3	155.7
77.5°	142.5	122.8	120.6	129.4	140.3	168.8	201.7	193.0	160.1	151.3	146.9
80°	105.3	94.3	100.9	109.6	116.2	155.7	190.8	177.6	146.9	133.8	127.2
82.5°	74.6	70.2	78.9	87.7	94.3	136.0	175.4	155.7	122.8	111.8	100.9
85°	43.9	46.0	54.8	59.2	65.8	100.9	146.9	125.0	94.3	72.4	70.2
87.5°	19.7	19.7	26.3	28.5	32.9	59.2	98.7	78.9	59.2	46.0	43.9
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)