

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: P675193

Luminaire Tested: **CCW-SA-1F-840-U-T4FT**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675193
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-840-U-T4FT
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
T4FT distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

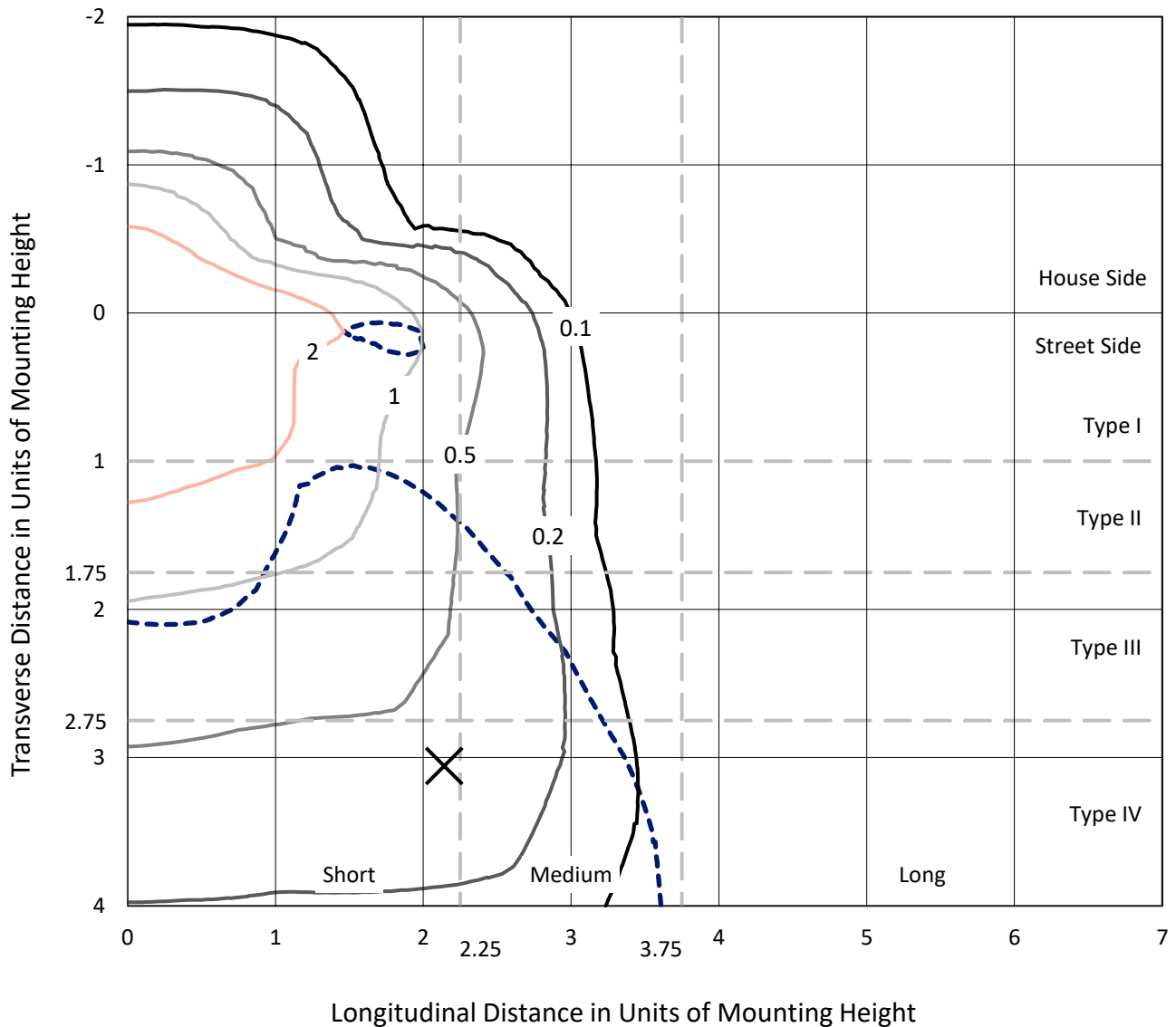
Lumens per Lamp: N/A
Luminaire Lumens: 6388.6 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

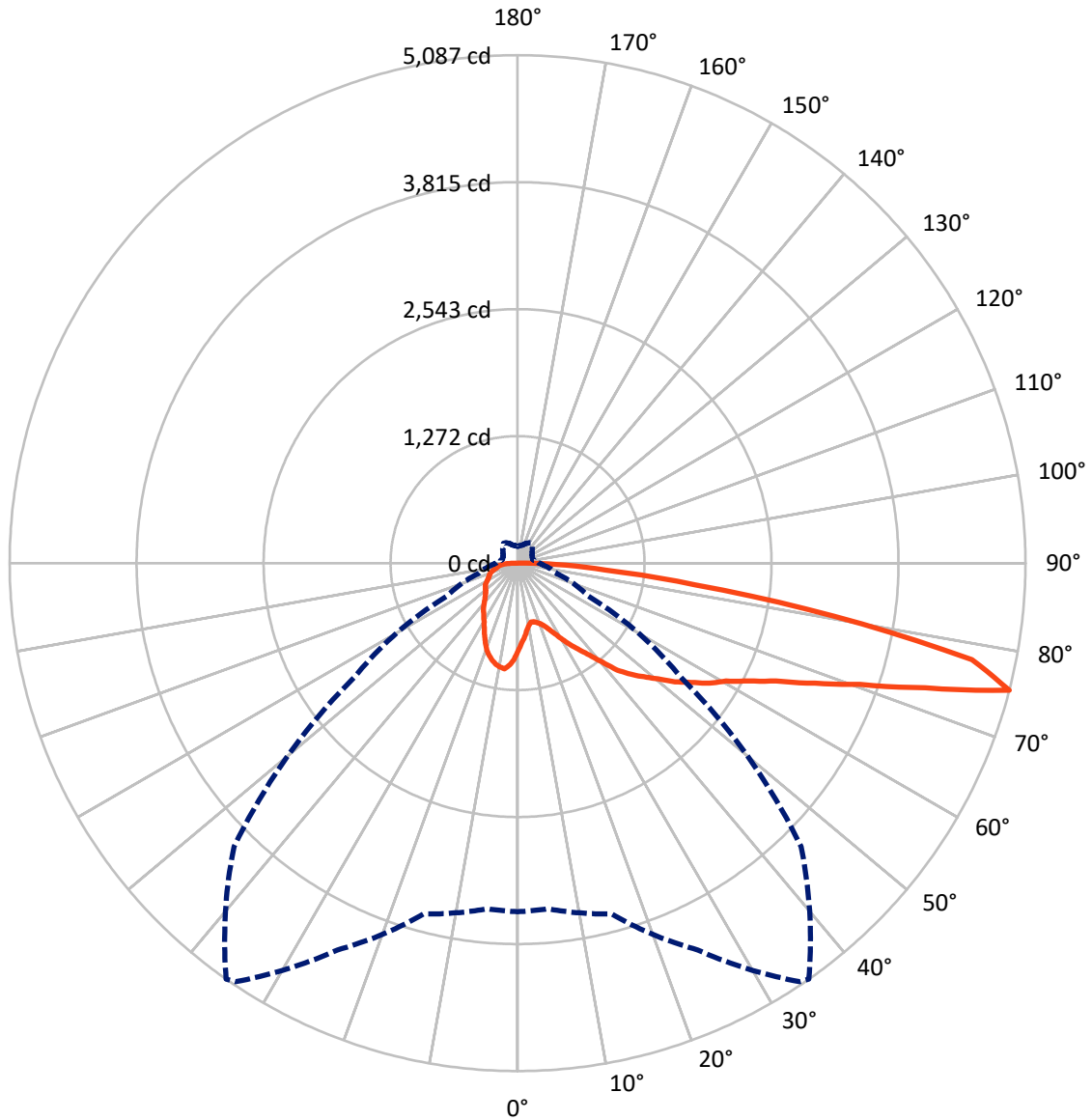
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.6 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	1468.3	0.0	1468.3
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	4920.3	0.0	4920.3
	% Fixture	77.0	0.0	77.0
Total	Lumens	6388.6	0.0	6388.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.4	1.3
10°-20°	242.1	3.8
20°-30°	401.6	6.3
30°-40°	595.4	9.3
40°-50°	858.5	13.4
50°-60°	1180.5	18.5
60°-70°	1458.2	22.8
70°-80°	1334.0	20.9
80°-90°	234.9	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°	6388.6	100.0
0°-180°	6388.6	100.0



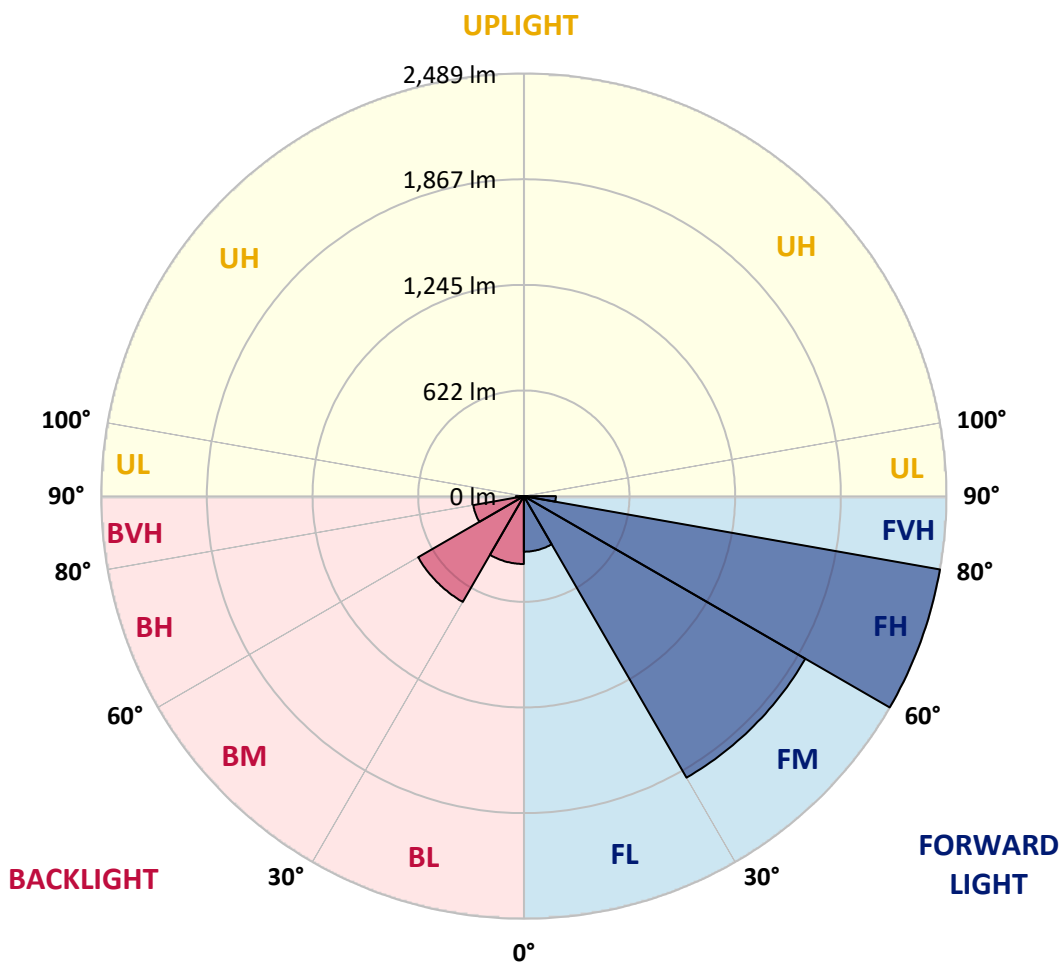
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	327.5	5.1			
FM (30°-60°)	1914.9	30.0			
FH (60°-80°)	2489.5	39.0			G2/5000
FVH (80°-90°)	188.5	3.0			G2/225
BL (0°-30°)	399.6	6.3	B1/500		
BM (30°-60°)	719.5	11.3	B1/1000		
BH (60°-80°)	302.8	4.7	B1/500		G1/500
BVH (80°-90°)	46.4	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°	875.3	875.3	875.3	875.3	875.3	875.3	875.3	875.3	875.3	875.3	875.3
2.5°	792.9	785.9	792.9	797.6	797.6	797.6	804.7	825.9	840.0	849.4	865.9
5°	710.6	712.9	717.6	729.4	736.5	741.2	752.9	778.8	800.0	830.6	865.9
7.5°	637.6	642.3	649.4	661.2	677.6	675.3	701.2	736.5	776.5	816.4	868.2
10°	600.0	609.4	611.7	614.1	630.6	630.6	665.9	705.9	755.3	807.0	868.2
12.5°	607.0	607.0	600.0	597.6	607.0	604.7	635.3	682.3	736.5	809.4	877.6
15°	628.2	628.2	614.1	600.0	614.1	609.4	635.3	672.9	736.5	811.7	896.4
17.5°	656.5	658.8	642.3	618.8	623.5	625.9	644.7	680.0	736.5	816.4	922.3
20°	712.9	701.2	675.3	637.6	654.1	647.0	675.3	705.9	750.6	835.3	960.0
22.5°	762.3	762.3	712.9	680.0	682.3	682.3	708.2	734.1	771.7	861.2	988.2
25°	842.3	837.6	776.5	727.0	731.7	734.1	748.2	778.8	807.0	875.3	1023.5
27.5°	943.5	931.7	870.6	814.1	795.3	802.3	809.4	832.9	840.0	898.8	1065.9
30°	1051.7	1035.3	983.5	894.1	884.7	887.0	875.3	889.4	880.0	936.4	1108.2
32.5°	1120.0	1120.0	1070.6	1004.7	978.8	978.8	938.8	948.2	948.2	971.7	1183.5
35°	1178.8	1174.1	1141.1	1091.7	1075.3	1065.9	1025.9	1040.0	1016.4	1040.0	1289.4
37.5°	1268.2	1254.1	1240.0	1207.0	1174.1	1167.0	1145.9	1155.3	1122.3	1110.6	1409.4
40°	1371.7	1364.7	1350.6	1336.4	1303.5	1301.1	1277.6	1287.0	1251.7	1207.0	1529.4
42.5°	1524.7	1503.5	1458.8	1447.0	1454.1	1463.5	1454.1	1437.6	1374.1	1317.6	1658.8
45°	1677.6	1644.7	1560.0	1541.1	1595.3	1588.2	1628.2	1621.1	1517.6	1428.2	1795.2
47.5°	1776.4	1748.2	1680.0	1668.2	1691.7	1701.1	1821.1	1800.0	1635.3	1529.4	1927.0
50°	1847.0	1849.4	1760.0	1790.5	1821.1	1821.1	1971.7	1969.4	1778.8	1654.1	2098.8
52.5°	1950.5	1917.6	1880.0	1908.2	1950.5	1974.1	2159.9	2108.2	1868.2	1760.0	2291.7
55°	2004.7	1990.5	1957.6	2007.0	2096.4	2108.2	2305.8	2265.8	1969.4	1884.7	2489.3
57.5°	2025.8	2037.6	2091.7	2112.9	2237.6	2268.2	2437.6	2381.1	2063.5	2039.9	2642.3
60°	2119.9	2103.5	2176.4	2261.1	2381.1	2397.6	2602.3	2479.9	2155.2	2141.1	2691.7
62.5°	2310.5	2268.2	2308.2	2409.4	2576.4	2597.6	2776.4	2611.7	2195.2	2209.4	2689.3
65°	2588.2	2557.6	2498.8	2578.8	2814.0	2844.6	2981.1	2724.6	2183.5	2185.8	2498.8
67.5°	2915.2	2865.8	2804.6	2854.0	3141.1	3211.7	3230.5	2774.0	2101.1	2054.1	2032.9
70°	3202.3	3169.3	3129.3	3214.0	3614.0	3639.9	3541.1	2743.5	1872.9	1649.4	1355.3
72.5°	3470.5	3454.0	3477.6	3795.2	4254.0	4270.5	3832.8	2550.5	1480.0	1000.0	630.6
75°	3491.7	3475.2	3637.6	4275.2	5056.3	5086.9	4014.0	1999.9	781.2	407.0	265.9
77.5°	2364.6	2414.1	2717.6	3743.4	4644.6	4651.6	3282.3	929.4	322.3	240.0	185.9
80°	581.2	644.7	1023.5	1936.4	3131.7	3209.3	1797.6	312.9	211.8	183.5	138.8
82.5°	211.8	230.6	416.5	875.3	1760.0	1790.5	628.2	169.4	152.9	141.2	101.2
85°	101.2	103.5	197.6	430.6	889.4	880.0	225.9	101.2	110.6	96.5	61.2
87.5°	42.4	42.4	87.1	200.0	392.9	381.2	72.9	47.1	63.5	56.5	30.6
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°	875.3	875.3	875.3	875.3	875.3	875.3	875.3	875.3	875.3	875.3	875.3
2.5°	877.6	882.3	901.2	915.3	929.4	941.2	960.0	960.0	971.7	971.7	971.7
5°	875.3	901.2	931.7	964.7	985.9	1007.0	1025.9	1028.2	1035.3	1044.7	1047.0
7.5°	884.7	910.6	960.0	1007.0	1032.9	1042.3	1065.9	1058.8	1058.8	1058.8	1065.9
10°	903.5	931.7	1000.0	1042.3	1061.1	1063.5	1056.4	1051.7	1037.6	1032.9	1025.9
12.5°	917.6	967.0	1035.3	1068.2	1061.1	1054.1	1037.6	1014.1	997.6	992.9	992.9
15°	952.9	1002.3	1065.9	1077.6	1065.9	1028.2	1007.0	981.2	967.0	945.9	955.3
17.5°	983.5	1040.0	1096.4	1082.3	1058.8	1000.0	969.4	931.7	912.9	889.4	889.4
20°	1023.5	1075.3	1124.7	1087.0	1035.3	971.7	922.3	875.3	849.4	825.9	830.6
22.5°	1068.2	1115.3	1141.1	1068.2	1000.0	927.0	858.8	814.1	781.2	767.0	771.7
25°	1103.5	1155.3	1150.6	1037.6	957.6	870.6	795.3	752.9	745.9	731.7	731.7
27.5°	1148.2	1202.3	1143.5	1000.0	887.0	781.2	734.1	717.6	717.6	710.6	715.3
30°	1207.0	1244.7	1127.0	945.9	797.6	701.2	677.6	687.0	703.5	696.5	698.8
32.5°	1303.5	1298.8	1112.9	884.7	703.5	623.5	640.0	658.8	672.9	680.0	684.7
35°	1397.6	1367.0	1096.4	802.3	616.5	585.9	600.0	621.2	647.0	654.1	656.5
37.5°	1491.7	1437.6	1068.2	701.2	562.3	552.9	567.0	578.8	600.0	604.7	609.4
40°	1590.5	1484.7	1018.8	602.3	517.6	517.6	527.0	529.4	541.2	548.2	552.9
42.5°	1677.6	1529.4	929.4	510.6	470.6	487.0	489.4	484.7	475.3	480.0	482.3
45°	1783.5	1578.8	825.9	444.7	435.3	456.5	461.2	442.3	425.9	416.5	411.8
47.5°	1887.0	1630.5	736.5	390.6	402.3	435.3	435.3	414.1	385.9	362.3	352.9
50°	1981.1	1682.3	663.5	357.6	369.4	418.8	423.5	383.5	352.9	324.7	320.0
52.5°	2138.8	1769.4	588.2	331.8	350.6	407.0	404.7	369.4	329.4	298.8	296.5
55°	2277.6	1856.4	489.4	305.9	331.8	390.6	397.6	355.3	301.2	272.9	268.2
57.5°	2378.8	1877.6	390.6	280.0	312.9	371.8	381.2	327.1	282.3	258.8	256.5
60°	2397.6	1795.2	317.6	258.8	287.1	345.9	352.9	310.6	268.2	249.4	244.7
62.5°	2310.5	1637.6	270.6	240.0	265.9	320.0	334.1	291.8	254.1	237.6	235.3
65°	2112.9	1407.0	237.6	223.5	251.8	301.2	317.6	277.6	242.3	228.2	225.9
67.5°	1672.9	1080.0	211.8	211.8	232.9	282.3	305.9	268.2	230.6	221.2	218.8
70°	1094.1	649.4	192.9	195.3	218.8	265.9	291.8	256.5	216.5	214.1	209.4
72.5°	470.6	298.8	171.8	178.8	197.6	237.6	270.6	240.0	200.0	192.9	185.9
75°	216.5	181.2	155.3	160.0	176.5	209.4	244.7	221.2	185.9	174.1	167.1
77.5°	152.9	131.8	129.4	138.8	150.6	181.2	216.5	207.1	171.8	162.3	157.6
80°	112.9	101.2	108.2	117.6	124.7	167.1	204.7	190.6	157.6	143.5	136.5
82.5°	80.0	75.3	84.7	94.1	101.2	145.9	188.2	167.1	131.8	120.0	108.2
85°	47.1	49.4	58.8	63.5	70.6	108.2	157.6	134.1	101.2	77.6	75.3
87.5°	21.2	21.2	28.2	30.6	35.3	63.5	105.9	84.7	63.5	49.4	47.1
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)