

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: P675346

Luminaire Tested: **CCW-SA-1D-850-U-T4W**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675346
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-850-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T4W distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

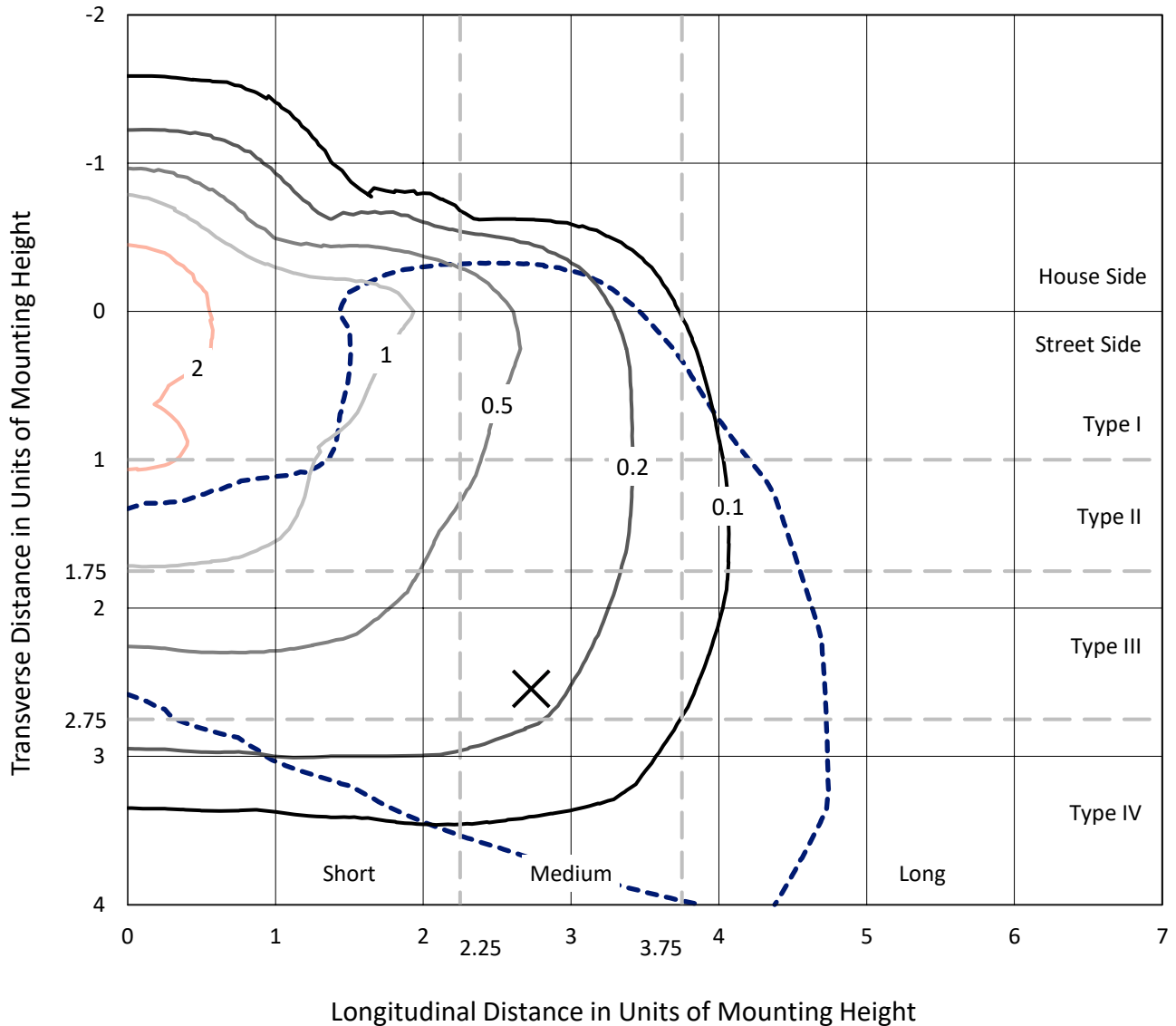
Lumens per Lamp: N/A
Luminaire Lumens: 4909.3 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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

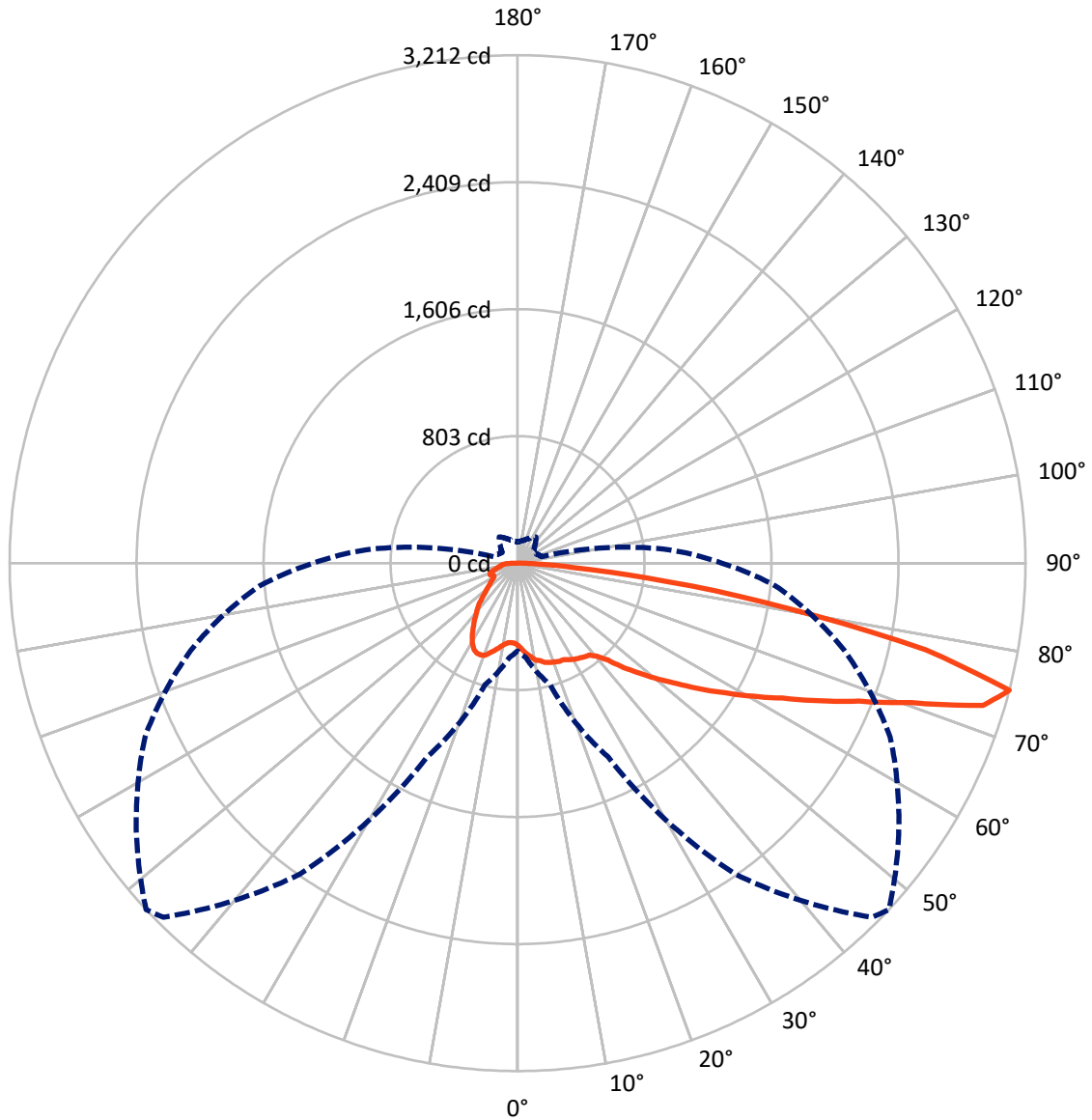
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1174.1	0.0	1174.1
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	3735.3	0.0	3735.3
	% Fixture	76.1	0.0	76.1
Total	Lumens	4909.3	0.0	4909.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	1.1
10°-20°	175.0	3.6
20°-30°	299.7	6.1
30°-40°	419.4	8.5
40°-50°	584.8	11.9
50°-60°	874.0	17.8
60°-70°	1260.2	25.7
70°-80°	1072.7	21.8
80°-90°	170.9	3.5
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°	4909.3	100.0
0°-180°	4909.3	100.0



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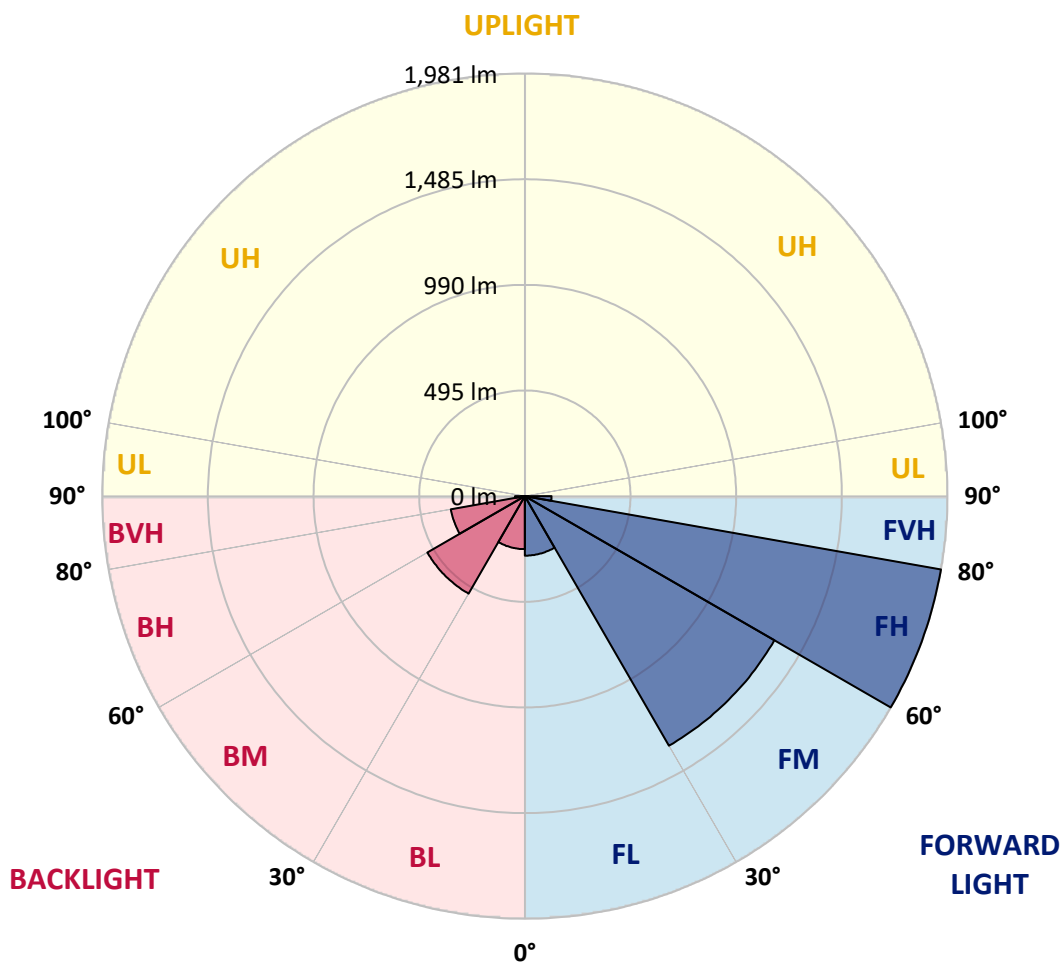
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	278.9	5.7			
FM (30°-60°)	1350.5	27.5			
FH (60°-80°)	1980.6	40.3			G2/5000
FVH (80°-90°)	125.2	2.6			G2/225
BL (0°-30°)	248.5	5.1	B1/500		
BM (30°-60°)	527.7	10.7	B1/1000		
BH (60°-80°)	352.2	7.2	B1/500		G1/500
BVH (80°-90°)	45.7	0.9			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3
2.5°	558.9	560.7	560.7	557.1	553.5	546.3	546.3	539.2	535.6	526.6	523.1
5°	610.8	605.5	600.1	598.3	589.3	576.8	575.0	567.8	548.1	539.2	526.6
7.5°	648.4	646.7	644.9	637.7	621.6	601.9	596.5	585.8	566.1	548.1	533.8
10°	678.9	686.1	678.9	662.8	646.7	625.2	623.4	603.7	585.8	564.3	546.3
12.5°	712.9	714.7	702.2	682.5	657.4	639.5	632.3	625.2	605.5	587.5	560.7
15°	736.2	732.6	723.7	696.8	668.2	650.2	652.0	643.1	621.6	609.0	580.4
17.5°	736.2	736.2	721.9	702.2	677.1	661.0	661.0	655.6	641.3	623.4	603.7
20°	721.9	721.9	712.9	702.2	673.5	669.9	666.4	662.8	662.8	646.7	618.0
22.5°	704.0	700.4	704.0	686.1	666.4	669.9	675.3	673.5	668.2	653.8	634.1
25°	686.1	687.9	691.4	678.9	661.0	677.1	675.3	684.3	680.7	669.9	653.8
27.5°	684.3	687.9	689.6	677.1	669.9	684.3	691.4	700.4	702.2	691.4	671.7
30°	711.1	709.4	707.6	691.4	686.1	698.6	705.8	718.3	729.1	705.8	689.6
32.5°	781.0	770.3	759.5	716.5	700.4	709.4	716.5	734.4	736.2	723.7	700.4
35°	892.1	884.9	849.1	773.8	729.1	720.1	727.3	739.8	743.4	734.4	716.5
37.5°	1019.2	1015.7	965.5	874.2	788.2	745.2	738.0	755.9	770.3	750.6	725.5
40°	1144.6	1130.3	1094.5	1004.9	863.4	782.8	773.8	782.8	788.2	773.8	757.7
42.5°	1257.5	1241.4	1232.4	1142.8	961.9	845.5	838.3	816.8	833.0	815.0	793.5
45°	1352.4	1348.8	1345.3	1268.2	1074.8	947.6	942.2	886.7	904.6	890.3	859.8
47.5°	1420.5	1436.6	1431.2	1388.3	1203.8	1056.9	1040.7	969.1	996.0	981.6	951.2
50°	1501.1	1510.1	1504.7	1476.0	1323.8	1182.3	1151.8	1078.4	1108.8	1107.0	1090.9
52.5°	1572.8	1599.6	1569.2	1567.4	1495.7	1318.4	1266.4	1196.6	1246.7	1266.4	1264.7
55°	1657.0	1678.4	1669.5	1665.9	1649.8	1451.0	1404.4	1320.2	1404.4	1433.0	1458.1
57.5°	1728.6	1726.8	1760.8	1802.0	1821.7	1603.2	1547.7	1449.2	1576.3	1608.6	1678.4
60°	1760.8	1791.3	1848.6	1952.5	2008.0	1766.2	1708.9	1630.1	1750.1	1775.2	1904.1
62.5°	1782.3	1809.2	1920.3	2095.8	2128.1	1932.8	1879.1	1800.3	1940.0	1957.9	2149.6
65°	1723.2	1748.3	1968.6	2149.6	2264.2	2111.9	2099.4	2017.0	2129.9	2140.6	2407.5
67.5°	1655.2	1682.0	1927.4	2217.6	2445.1	2350.2	2330.5	2232.0	2317.9	2305.4	2604.5
70°	1535.1	1571.0	1821.7	2276.7	2645.7	2683.4	2644.0	2504.2	2513.2	2395.0	2613.5
72.5°	1169.7	1193.0	1425.9	2042.1	2738.9	3145.5	3077.4	2798.0	2695.9	2412.9	2307.2
75°	555.3	598.3	795.3	1350.6	2400.3	3167.0	3211.8	2943.1	2599.2	2140.6	1635.5
77.5°	161.2	161.2	241.8	573.2	1504.7	2552.6	2636.8	2498.9	2144.2	1585.3	859.8
80°	87.8	93.1	127.2	202.4	661.0	1610.4	1732.2	1657.0	1262.9	627.0	222.1
82.5°	50.2	51.9	84.2	121.8	300.9	875.9	947.6	859.8	480.1	189.9	103.9
85°	28.7	30.5	48.4	80.6	179.1	322.4	351.1	304.5	193.5	127.2	51.9
87.5°	14.3	14.3	23.3	37.6	91.4	91.4	89.6	109.3	116.4	77.0	23.3
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°	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3
2.5°	521.3	519.5	519.5	512.3	510.5	505.1	505.1	501.6	499.8	505.1	505.1
5°	523.1	514.1	512.3	505.1	506.9	503.4	510.5	506.9	505.1	505.1	503.4
7.5°	526.6	517.7	510.5	505.1	503.4	508.7	517.7	517.7	528.4	523.1	523.1
10°	535.6	530.2	521.3	517.7	517.7	523.1	533.8	541.0	549.9	549.9	544.6
12.5°	557.1	548.1	537.4	532.0	539.2	544.6	555.3	562.5	573.2	576.8	573.2
15°	573.2	564.3	560.7	557.1	562.5	569.6	578.6	585.8	598.3	601.9	600.1
17.5°	594.7	584.0	582.2	584.0	587.5	592.9	598.3	603.7	612.6	612.6	612.6
20°	605.5	601.9	600.1	605.5	612.6	619.8	616.2	612.6	610.8	614.4	612.6
22.5°	625.2	621.6	623.4	628.7	628.7	625.2	619.8	607.2	603.7	607.2	603.7
25°	643.1	639.5	639.5	635.9	634.1	621.6	610.8	600.1	587.5	592.9	591.1
27.5°	661.0	659.2	659.2	644.9	627.0	605.5	591.1	578.6	571.4	580.4	575.0
30°	682.5	684.3	675.3	641.3	598.3	575.0	558.9	557.1	555.3	560.7	558.9
32.5°	702.2	704.0	689.6	635.9	576.8	532.0	515.9	517.7	526.6	535.6	544.6
35°	712.9	721.9	704.0	618.0	533.8	483.7	465.7	481.9	498.0	510.5	519.5
37.5°	732.6	755.9	725.5	598.3	496.2	440.7	428.1	433.5	453.2	472.9	481.9
40°	761.3	788.2	730.8	560.7	446.0	397.7	390.5	392.3	399.5	412.0	421.0
42.5°	811.5	840.1	736.2	512.3	395.9	370.8	351.1	345.7	340.3	340.3	338.6
45°	884.9	911.8	729.1	451.4	345.7	327.8	313.5	300.9	286.6	263.3	266.9
47.5°	992.4	1013.9	734.4	397.7	299.1	284.8	274.1	259.7	238.2	213.2	211.4
50°	1155.4	1123.1	727.3	342.1	265.1	252.6	243.6	223.9	198.8	180.9	179.1
52.5°	1345.3	1280.8	720.1	295.6	236.5	225.7	218.5	197.0	173.8	164.8	163.0
55°	1574.6	1481.4	730.8	254.4	215.0	206.0	198.8	179.1	161.2	154.1	152.3
57.5°	1845.0	1698.2	790.0	222.1	191.7	188.1	186.3	170.2	154.1	148.7	146.9
60°	2099.4	1905.9	829.4	198.8	170.2	173.8	177.3	170.2	152.3	148.7	148.7
62.5°	2312.6	2077.9	766.7	179.1	159.4	170.2	186.3	180.9	173.8	177.3	173.8
65°	2500.7	2137.0	573.2	168.4	154.1	179.1	206.0	204.2	188.1	191.7	189.9
67.5°	2532.9	2065.4	374.4	159.4	150.5	197.0	231.1	209.6	177.3	177.3	172.0
70°	2398.5	1873.7	250.8	150.5	148.7	197.0	236.5	197.0	166.6	166.6	159.4
72.5°	1968.6	1497.5	193.5	141.5	136.1	175.5	223.9	186.3	155.8	152.3	139.7
75°	1293.3	965.5	157.6	134.3	118.2	154.1	202.4	172.0	148.7	137.9	132.6
77.5°	634.1	433.5	132.6	118.2	102.1	134.3	184.5	163.0	139.7	129.0	125.4
80°	173.8	155.8	111.1	103.9	86.0	116.4	173.8	155.8	130.8	120.0	114.6
82.5°	98.5	96.7	89.6	84.2	71.7	116.4	175.5	155.8	123.6	121.8	103.9
85°	53.7	57.3	64.5	62.7	55.5	103.9	166.6	136.1	100.3	84.2	84.2
87.5°	21.5	26.9	32.2	35.8	37.6	77.0	125.4	103.9	77.0	64.5	64.5
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)