

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: P674639

Luminaire Tested: **CCP-SA-1E-850-U-T2R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674639
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1E-850-U-T2R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ T2R distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4830.7 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

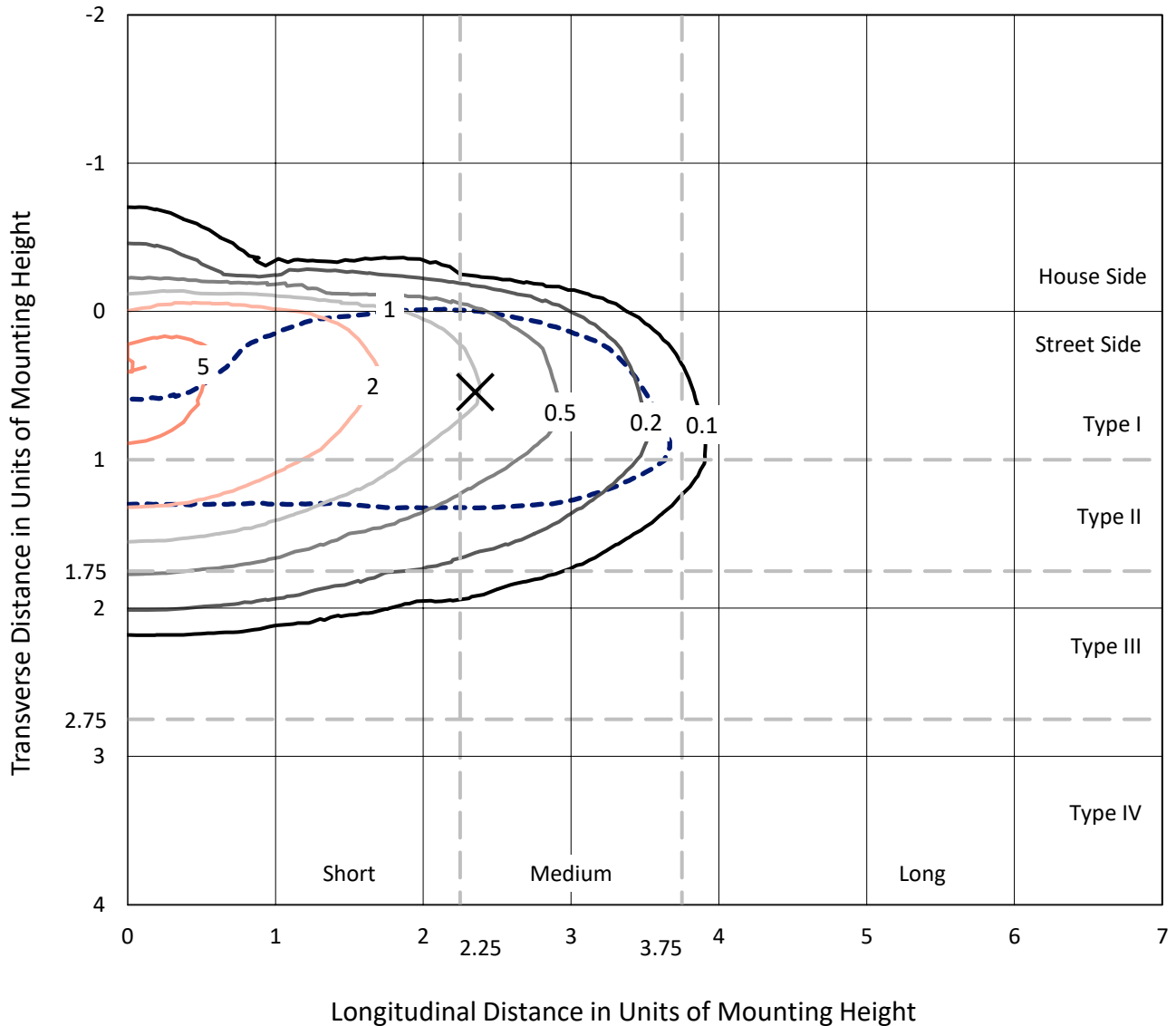
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

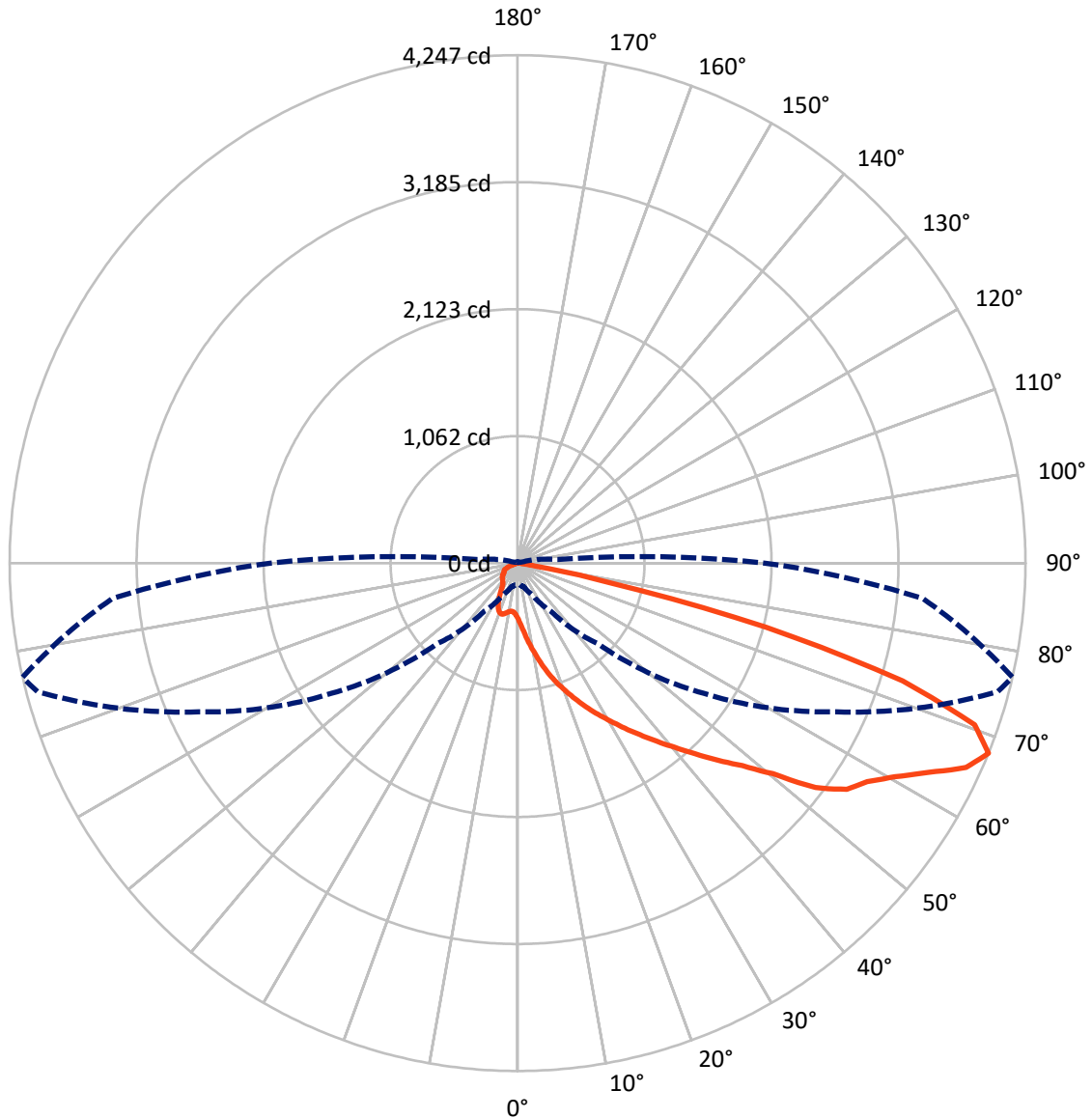
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	301.9	0.0	301.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	4528.8	0.0	4528.8
	% Fixture	93.8	0.0	93.8
Total	Lumens	4830.7	0.0	4830.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	1.1
10°-20°	201.1	4.2
20°-30°	392.9	8.1
30°-40°	686.8	14.2
40°-50°	1001.7	20.7
50°-60°	1171.3	24.2
60°-70°	949.5	19.7
70°-80°	356.7	7.4
80°-90°	16.2	0.3
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°	4830.7	100.0
0°-180°	4830.7	100.0



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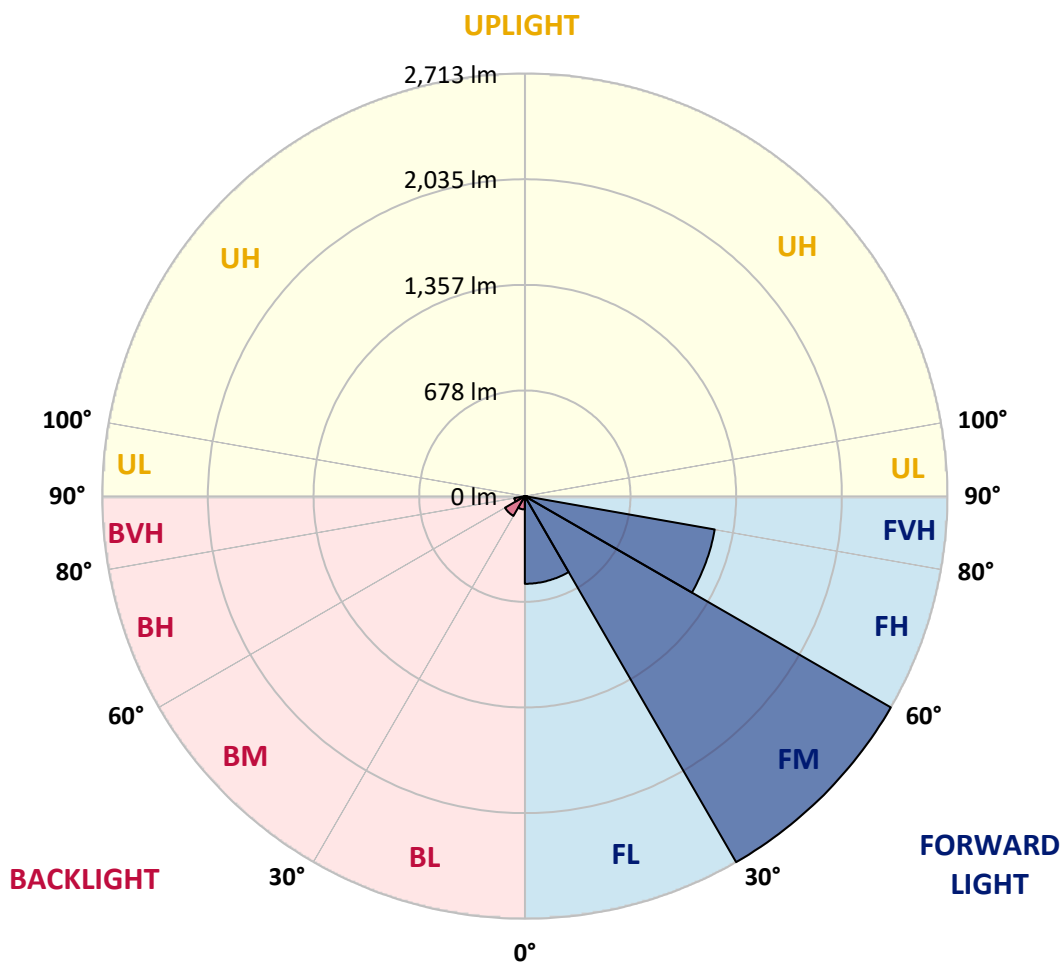
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	562.7	11.6			
FM (30°-60°)	2713.0	56.2			
FH (60°-80°)	1237.8	25.6			G1/1800
FVH (80°-90°)	15.3	0.3			G1/100
BL (0°-30°)	85.6	1.8	B0/110		
BM (30°-60°)	146.9	3.0	B0/220		
BH (60°-80°)	68.5	1.4	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	462.7	462.7	462.7	462.7	462.7	462.7	462.7	462.7	462.7	462.7	462.7
2.5°	694.7	669.4	674.2	663.7	650.2	618.8	585.7	552.5	522.9	516.3	486.7
5°	889.6	881.8	873.5	866.5	838.2	798.9	739.2	663.3	594.8	583.0	521.6
7.5°	1040.9	1029.2	1036.6	1015.2	985.6	947.6	871.7	790.6	685.1	667.6	572.1
10°	1152.6	1146.0	1149.5	1139.5	1125.1	1087.2	1012.2	910.5	788.4	755.3	628.8
12.5°	1236.3	1237.6	1252.9	1253.7	1242.0	1211.0	1131.6	1025.7	882.2	852.5	691.6
15°	1297.4	1298.7	1317.4	1337.5	1351.0	1334.9	1262.9	1144.3	992.5	952.0	757.5
17.5°	1307.4	1308.3	1341.4	1382.0	1423.8	1437.8	1382.4	1262.0	1093.3	1047.0	832.9
20°	1313.9	1321.3	1351.0	1397.7	1463.9	1507.1	1477.0	1375.0	1191.0	1137.3	907.1
22.5°	1393.3	1393.3	1410.7	1443.9	1496.7	1564.2	1558.1	1478.8	1286.0	1232.8	980.8
25°	1561.6	1561.6	1544.6	1535.9	1564.2	1617.4	1632.7	1589.5	1394.6	1331.8	1058.4
27.5°	1784.5	1784.5	1757.9	1693.8	1669.3	1691.6	1707.7	1685.9	1494.9	1433.0	1140.4
30°	2015.6	2023.4	1977.2	1895.7	1810.2	1793.2	1777.5	1772.7	1601.7	1532.0	1223.7
32.5°	2247.6	2246.7	2189.2	2087.5	1975.9	1915.7	1864.7	1859.0	1715.1	1646.7	1302.6
35°	2432.9	2433.4	2372.7	2268.5	2139.4	2062.7	1980.7	1954.1	1839.4	1763.1	1396.8
37.5°	2593.4	2584.3	2518.8	2419.8	2299.5	2220.1	2118.1	2048.7	1968.1	1890.4	1491.0
40°	2685.4	2673.2	2609.5	2515.3	2424.2	2363.6	2273.8	2163.0	2109.4	2025.6	1598.3
42.5°	2698.9	2688.5	2646.2	2589.5	2514.9	2461.7	2437.7	2292.1	2257.6	2181.7	1726.5
45°	2661.0	2644.0	2630.0	2600.4	2579.5	2553.7	2586.4	2429.4	2427.7	2352.3	1853.4
47.5°	2566.8	2543.7	2547.2	2579.9	2603.4	2626.6	2728.6	2609.5	2599.1	2528.4	2020.0
50°	2405.9	2394.6	2432.9	2497.5	2590.8	2683.2	2870.3	2793.6	2835.0	2768.7	2249.8
52.5°	2078.8	2092.8	2207.5	2362.7	2524.1	2709.8	3003.3	3068.3	3174.3	3119.8	2480.9
55°	1686.3	1681.1	1834.2	2109.8	2367.5	2692.8	3061.3	3230.1	3396.7	3339.6	2609.5
57.5°	1358.4	1367.6	1470.9	1743.5	2101.9	2561.6	3074.8	3314.7	3486.1	3448.1	2728.6
60°	1019.6	1028.3	1122.5	1359.7	1748.7	2287.7	2963.2	3344.3	3654.0	3625.2	2918.7
62.5°	648.9	660.2	754.9	985.6	1336.6	1862.1	2712.5	3313.4	3829.3	3853.3	3178.2
65°	319.2	329.2	399.0	575.6	893.5	1392.4	2362.7	3195.2	4052.6	4121.0	3386.2
67.5°	176.6	181.4	205.4	293.1	498.4	955.0	1898.7	2942.7	4155.0	4246.6	3400.2
70°	137.4	138.7	147.8	170.9	242.9	560.4	1350.6	2522.3	3942.7	4053.4	3117.1
72.5°	115.6	117.3	121.7	129.5	151.8	291.7	848.6	1949.3	3317.3	3367.5	2411.6
75°	84.6	87.2	99.4	106.4	119.9	177.1	374.2	1171.3	2192.2	2142.9	1349.3
77.5°	71.1	73.3	76.3	86.3	99.0	120.8	131.3	491.0	892.2	775.8	354.1
80°	48.4	51.0	59.3	64.5	83.7	79.8	54.5	131.7	179.2	146.1	68.0
82.5°	34.5	36.6	41.0	52.8	60.6	42.3	29.7	40.1	43.2	41.0	22.2
85°	10.9	14.0	29.7	43.6	32.7	14.4	18.8	15.3	13.5	13.1	8.7
87.5°	2.2	2.2	14.8	17.4	13.1	7.4	6.5	4.8	6.1	6.1	4.8
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°	462.7	462.7	462.7	462.7	462.7	462.7	462.7	462.7	462.7	462.7	462.7
2.5°	472.7	453.1	424.7	398.1	371.1	351.9	338.4	324.9	319.7	317.5	311.8
5°	493.7	456.1	399.9	354.5	321.4	300.5	287.8	276.9	269.9	267.8	264.7
7.5°	523.7	469.7	389.0	336.7	303.5	280.8	260.3	236.8	218.0	210.6	207.6
10°	556.4	490.2	390.7	333.2	289.1	239.4	193.6	155.7	139.1	133.0	128.6
12.5°	604.4	512.8	398.1	329.2	246.0	170.9	123.8	108.1	104.2	103.4	102.5
15°	652.4	544.7	410.4	303.1	183.6	116.4	102.9	97.2	95.1	92.9	92.9
17.5°	700.8	575.2	415.2	252.1	126.9	100.7	93.8	89.0	85.5	83.7	82.4
20°	755.3	607.5	401.2	189.7	101.6	92.0	84.2	78.5	75.4	73.7	72.4
22.5°	814.2	639.3	370.7	132.1	92.5	82.9	75.4	69.8	66.7	65.0	64.5
25°	869.6	666.8	321.8	99.4	83.3	74.1	67.2	62.4	60.2	58.4	58.0
27.5°	926.7	690.3	258.2	87.7	75.9	67.2	60.2	56.3	54.1	52.8	52.3
30°	982.5	706.5	192.3	80.2	69.3	60.6	54.5	51.5	49.3	48.0	47.5
32.5°	1040.1	715.6	130.0	73.7	62.8	54.9	49.7	46.7	45.4	44.0	44.0
35°	1095.5	714.3	93.8	67.6	57.6	49.7	44.9	42.7	42.3	41.0	41.0
37.5°	1156.1	705.2	79.8	61.9	51.9	44.9	41.0	39.7	39.2	38.4	37.9
40°	1225.0	684.7	72.8	57.6	47.1	41.0	37.5	36.6	36.2	35.3	35.3
42.5°	1300.4	658.1	68.9	52.8	43.2	37.1	34.5	33.1	32.7	31.8	31.8
45°	1388.1	632.8	66.3	48.0	39.7	34.0	31.4	30.1	29.7	28.8	28.8
47.5°	1507.6	618.4	61.9	43.6	35.8	31.0	28.3	27.5	26.6	25.7	25.7
50°	1672.0	601.4	56.3	39.2	32.7	27.9	26.2	24.9	24.4	23.5	23.5
52.5°	1807.1	565.2	50.6	34.9	29.2	25.7	24.0	23.1	22.2	21.8	21.8
55°	1854.7	522.9	44.9	31.4	26.6	24.0	22.2	21.4	20.9	20.5	20.5
57.5°	1930.6	509.3	39.7	27.9	24.0	22.2	20.5	20.1	19.6	19.2	18.8
60°	2060.1	517.2	34.9	24.9	21.8	20.1	18.8	18.3	17.4	16.6	16.6
62.5°	2185.7	507.6	29.7	21.8	18.8	17.9	16.6	15.7	14.0	12.6	11.8
65°	2216.2	443.5	25.7	18.3	15.7	14.8	13.5	11.8	9.2	7.4	7.4
67.5°	2068.4	337.1	22.2	15.7	13.1	12.2	9.6	7.8	5.7	4.4	4.4
70°	1706.8	213.7	18.3	12.2	10.9	8.3	6.1	5.7	3.9	3.5	3.1
72.5°	1231.5	116.9	15.3	10.0	7.8	5.2	4.4	3.5	2.6	1.7	1.7
75°	623.6	54.9	11.3	7.8	5.2	3.5	2.6	1.7	1.7	1.3	1.3
77.5°	176.6	25.3	7.4	5.2	3.5	2.2	1.7	1.3	1.3	0.9	0.9
80°	34.9	12.6	4.8	3.5	2.6	1.7	1.3	0.9	0.9	0.4	0.4
82.5°	12.6	6.5	3.5	2.6	2.2	1.7	0.9	0.4	0.4	0.0	0.0
85°	6.5	3.5	2.6	2.2	1.7	1.3	0.9	0.4	0.0	0.0	0.0
87.5°	3.5	2.6	2.2	2.2	1.7	1.3	0.9	0.4	0.0	0.0	0.0
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)