

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: P676392

Luminaire Tested: **CCW-SA-2B-727-U-T3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676392
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-727-U-T3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T3 distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

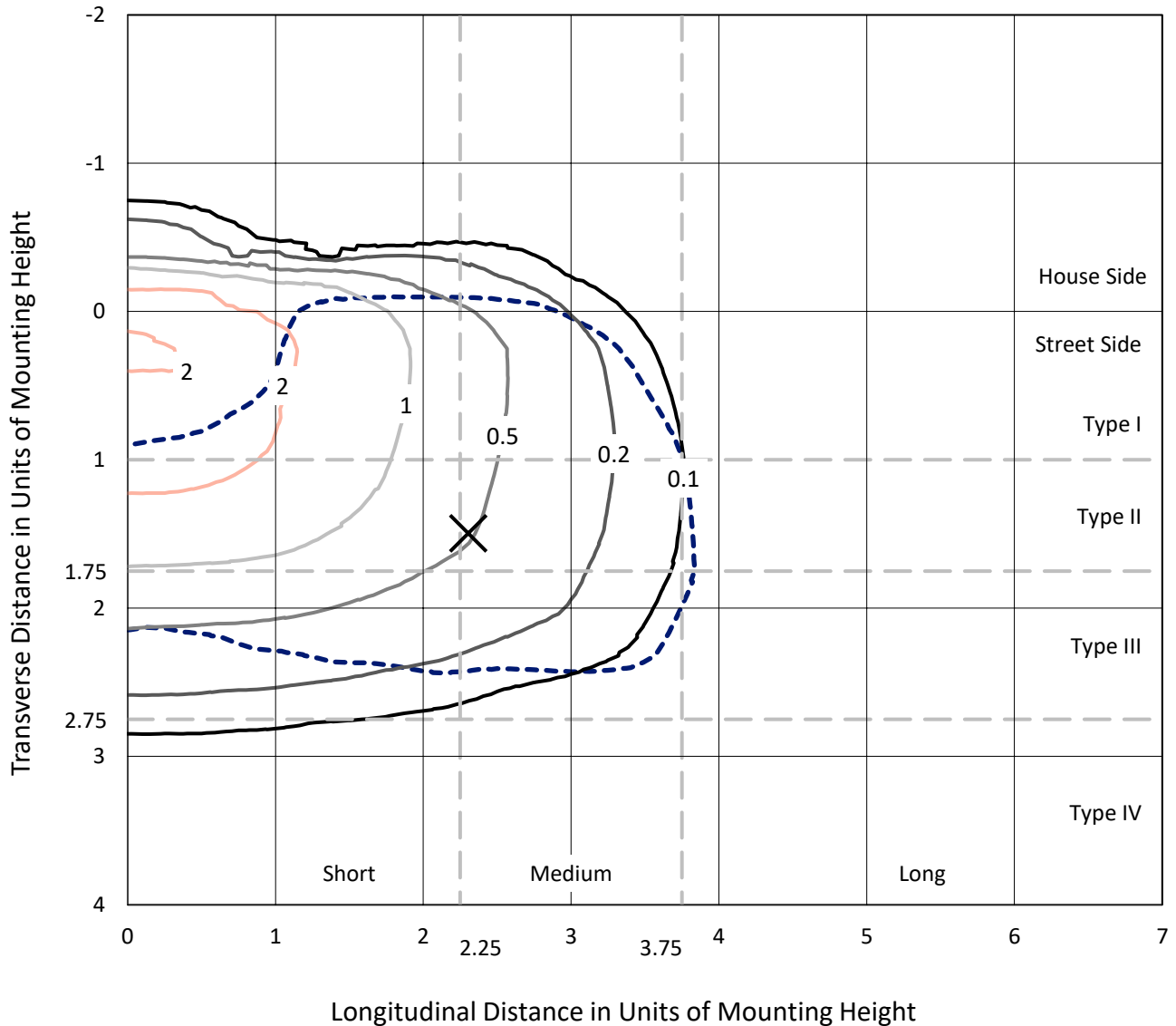
Lumens per Lamp: N/A
Luminaire Lumens: 4160.9 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
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

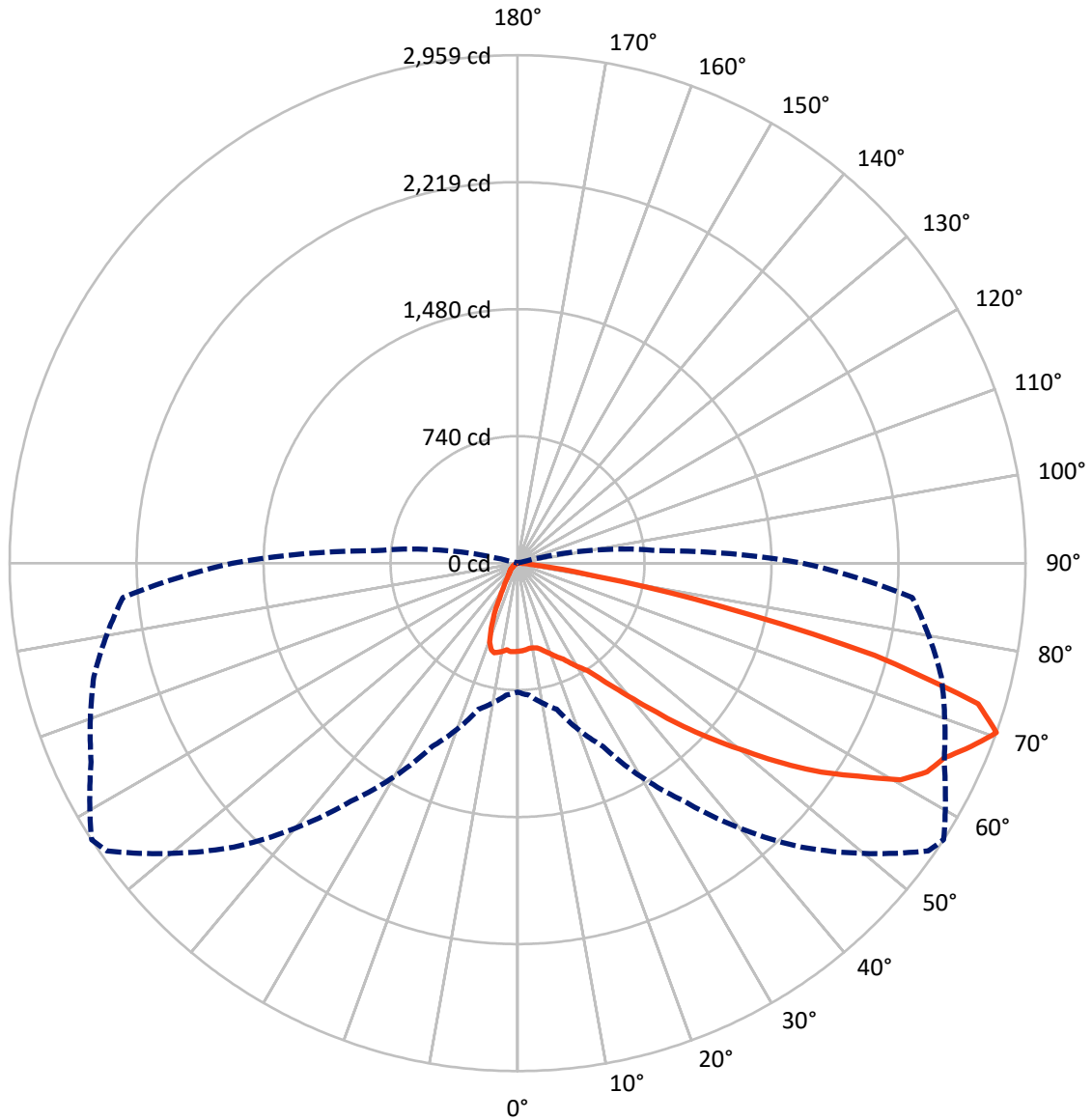
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	490.5	0.0	490.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	3670.4	0.0	3670.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	4160.9	0.0	4160.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	1.2
10°-20°	134.1	3.2
20°-30°	225.9	5.4
30°-40°	386.7	9.3
40°-50°	649.3	15.6
50°-60°	996.7	24.0
60°-70°	1150.7	27.7
70°-80°	543.6	13.1
80°-90°	25.8	0.6
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°	4160.9	100.0
0°-180°	4160.9	100.0



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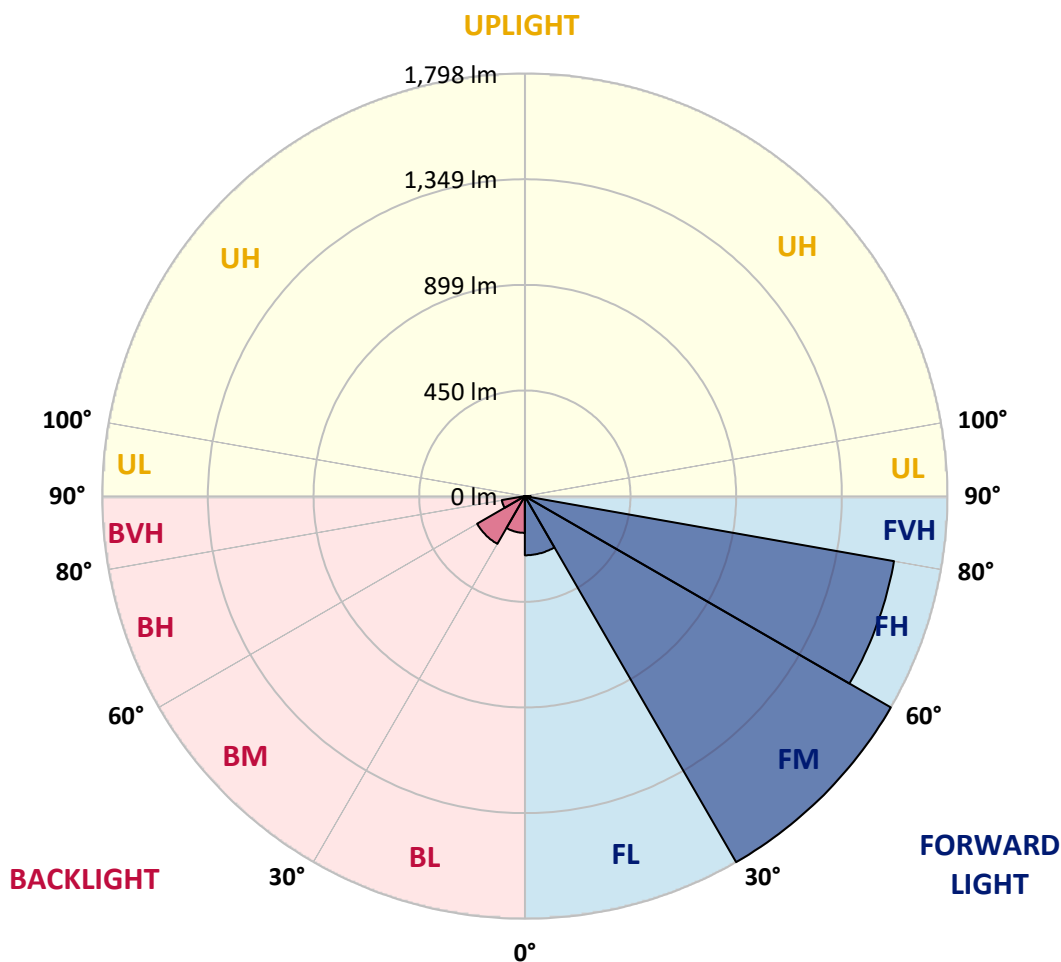
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	251.7	6.0			
FM (30°-60°)	1798.3	43.2			
FH (60°-80°)	1595.1	38.3			G1/1800
FVH (80°-90°)	25.3	0.6			G1/100
BL (0°-30°)	156.4	3.8	B1/500		
BM (30°-60°)	234.4	5.6	B1/1000		
BH (60°-80°)	99.2	2.4	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4
2.5°	506.0	502.8	506.0	510.2	506.0	509.1	508.1	511.3	507.0	507.0	510.2
5°	473.0	478.3	480.4	485.8	491.1	500.6	507.0	507.0	513.4	516.6	520.8
7.5°	461.3	452.8	461.3	465.6	470.9	486.8	496.4	500.6	509.1	520.8	527.2
10°	444.3	450.7	450.7	464.5	471.9	481.5	498.5	501.7	520.8	532.5	538.9
12.5°	443.2	443.2	448.6	458.1	473.0	491.1	512.3	506.0	526.1	547.4	558.0
15°	446.4	453.9	453.9	466.6	478.3	503.8	521.9	523.0	551.7	572.9	582.5
17.5°	460.2	457.1	461.3	468.8	486.8	511.3	541.0	544.2	577.2	605.9	619.7
20°	488.9	494.3	487.9	483.6	491.1	523.0	561.2	567.6	604.8	632.4	646.3
22.5°	596.3	592.1	566.5	536.8	524.0	538.9	580.4	595.2	638.8	671.8	683.5
25°	717.5	710.0	680.3	635.6	577.2	570.8	618.6	618.6	681.3	717.5	714.3
27.5°	832.3	830.1	795.1	748.3	665.4	619.7	649.4	661.1	729.2	758.9	745.1
30°	949.2	951.3	919.4	863.1	775.9	698.3	693.0	702.6	765.3	812.1	783.4
32.5°	1085.3	1066.1	1043.8	966.2	886.5	799.3	749.4	745.1	805.7	848.2	810.0
35°	1206.4	1194.7	1170.3	1100.1	1008.7	904.6	834.4	823.8	856.7	913.1	871.6
37.5°	1312.7	1301.0	1269.1	1222.4	1151.2	1035.3	936.4	920.5	934.3	993.8	943.9
40°	1404.1	1407.3	1398.8	1353.1	1287.2	1182.0	1068.2	1042.7	1031.0	1084.2	1027.9
42.5°	1470.0	1500.9	1503.0	1446.6	1393.5	1336.1	1208.5	1188.4	1160.7	1205.4	1166.0
45°	1608.2	1591.2	1601.8	1581.6	1523.2	1514.7	1370.1	1358.4	1320.2	1335.0	1293.6
47.5°	1716.6	1713.4	1733.6	1700.7	1684.7	1685.8	1554.0	1533.8	1479.6	1507.2	1460.5
50°	1779.3	1762.3	1835.7	1861.2	1858.0	1870.8	1740.0	1723.0	1670.9	1711.3	1611.4
52.5°	1794.2	1825.0	1894.1	1986.6	2025.9	2052.5	1943.0	1936.7	1880.3	1905.8	1767.7
55°	1831.4	1861.2	1901.6	2053.6	2199.2	2205.6	2142.9	2149.2	2099.3	2092.9	1916.5
57.5°	1830.4	1824.0	1935.6	2112.0	2314.0	2405.4	2371.4	2340.6	2286.4	2223.6	2012.1
60°	1763.4	1760.2	1876.1	2119.5	2376.7	2586.1	2599.9	2563.8	2427.7	2335.3	2124.8
62.5°	1630.5	1643.3	1760.2	2055.7	2436.2	2650.9	2702.0	2677.5	2508.5	2409.7	2257.7
65°	1478.5	1452.0	1588.0	1896.3	2302.3	2631.8	2742.4	2733.9	2604.2	2490.4	2379.9
67.5°	1186.2	1197.9	1302.1	1631.6	2073.8	2561.7	2837.0	2849.7	2680.7	2561.7	2417.1
70°	751.5	772.7	881.2	1178.8	1693.2	2340.6	2922.0	2959.2	2741.3	2555.3	2308.7
72.5°	219.0	227.5	375.2	587.8	1078.9	1877.1	2785.9	2805.1	2623.3	2319.3	1785.7
75°	72.3	76.5	110.5	191.3	423.0	970.5	2057.8	2148.2	2087.6	1681.6	1021.5
77.5°	47.8	50.0	60.6	91.4	160.5	304.0	1103.3	1200.0	1176.7	787.6	329.5
80°	35.1	36.1	44.6	61.6	97.8	109.5	407.1	470.9	454.9	180.7	65.9
82.5°	22.3	22.3	33.0	43.6	61.6	54.2	118.0	130.7	127.6	69.1	25.5
85°	14.9	15.9	24.4	34.0	34.0	25.5	34.0	39.3	42.5	37.2	11.7
87.5°	4.3	5.3	13.8	23.4	13.8	12.8	11.7	12.8	14.9	20.2	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4
2.5°	513.4	517.6	516.6	518.7	515.5	512.3	515.5	515.5	515.5	512.3	510.2
5°	517.6	515.5	517.6	513.4	517.6	513.4	511.3	504.9	503.8	503.8	508.1
7.5°	524.0	526.1	516.6	516.6	507.0	509.1	503.8	504.9	502.8	499.6	497.5
10°	533.6	542.1	532.5	529.3	518.7	510.2	497.5	491.1	491.1	486.8	491.1
12.5°	560.2	557.0	551.7	541.0	528.3	511.3	480.4	449.6	424.1	405.0	414.5
15°	581.4	580.4	572.9	552.7	535.7	483.6	406.0	326.3	283.8	264.7	261.5
17.5°	614.4	611.2	598.4	571.9	515.5	400.7	278.5	211.5	170.1	160.5	157.3
20°	645.2	644.1	616.5	582.5	464.5	292.3	181.8	139.2	127.6	128.6	126.5
22.5°	678.1	672.8	639.9	569.7	369.9	194.5	129.7	124.4	120.1	119.0	121.2
25°	715.4	696.2	663.3	541.0	272.1	133.9	122.2	118.0	113.7	112.7	112.7
27.5°	730.2	717.5	673.9	471.9	172.2	116.9	114.8	109.5	104.2	101.0	99.9
30°	764.2	743.0	684.5	371.0	122.2	107.4	104.2	97.8	90.3	85.0	85.0
32.5°	798.3	772.7	685.6	259.4	102.0	96.7	91.4	82.9	73.3	68.0	69.1
35°	840.8	805.7	673.9	167.9	91.4	85.0	74.4	64.8	56.3	52.1	52.1
37.5°	913.1	880.1	626.1	110.5	82.9	72.3	61.6	51.0	43.6	40.4	40.4
40°	1004.5	962.0	560.2	87.2	73.3	61.6	48.9	39.3	35.1	31.9	31.9
42.5°	1113.9	1060.8	462.4	77.6	64.8	51.0	38.3	30.8	26.6	26.6	25.5
45°	1223.4	1136.3	362.5	71.2	57.4	42.5	29.8	24.4	22.3	21.3	21.3
47.5°	1379.7	1227.7	259.4	64.8	50.0	33.0	24.4	20.2	18.1	17.0	18.1
50°	1529.6	1313.8	183.9	58.5	41.5	26.6	20.2	18.1	15.9	14.9	14.9
52.5°	1661.4	1373.3	128.6	51.0	35.1	22.3	18.1	15.9	14.9	13.8	13.8
55°	1733.6	1353.1	88.2	43.6	28.7	19.1	15.9	13.8	12.8	11.7	11.7
57.5°	1808.0	1296.8	67.0	36.1	23.4	18.1	14.9	12.8	11.7	10.6	10.6
60°	1870.8	1255.3	52.1	28.7	19.1	14.9	12.8	10.6	9.6	8.5	7.4
62.5°	1873.9	1172.4	38.3	21.3	14.9	12.8	10.6	8.5	5.3	4.3	3.2
65°	1886.7	1085.3	27.6	15.9	10.6	9.6	7.4	4.3	2.1	0.0	0.0
67.5°	1842.1	982.1	22.3	11.7	7.4	5.3	3.2	1.1	0.0	0.0	0.0
70°	1660.3	829.1	17.0	8.5	5.3	3.2	1.1	0.0	0.0	0.0	0.0
72.5°	1188.4	538.9	11.7	6.4	2.1	1.1	0.0	0.0	0.0	0.0	0.0
75°	633.5	229.6	8.5	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	198.8	58.5	5.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	43.6	15.9	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.9	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	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)