

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: P676602

Luminaire Tested: **CCW-SA-2B-827-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676602  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-827-U-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

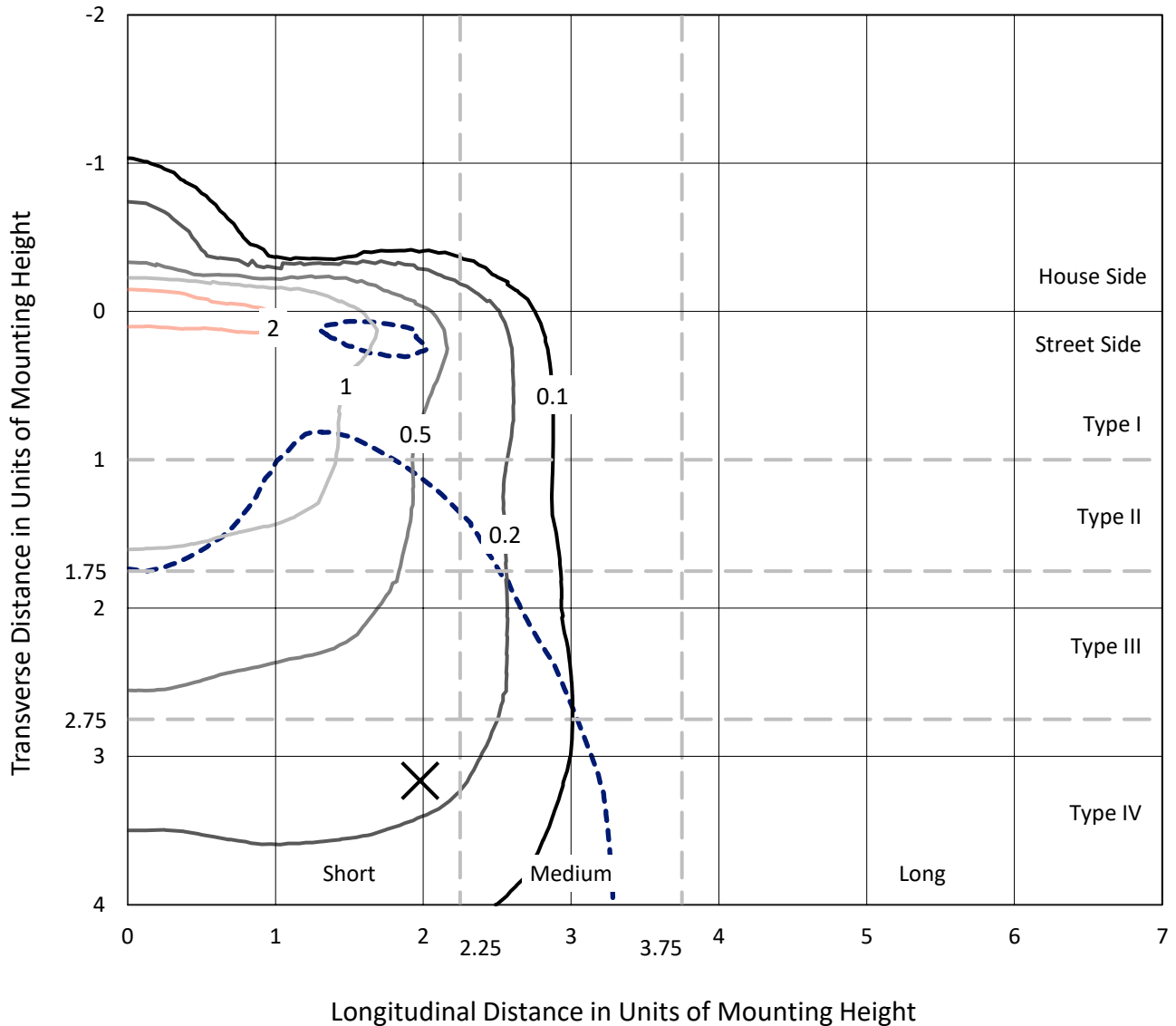
Lumens per Lamp: N/A  
Luminaire Lumens: 3645.4 lumens  
Efficiency: N/A  
Efficacy: 79.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

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

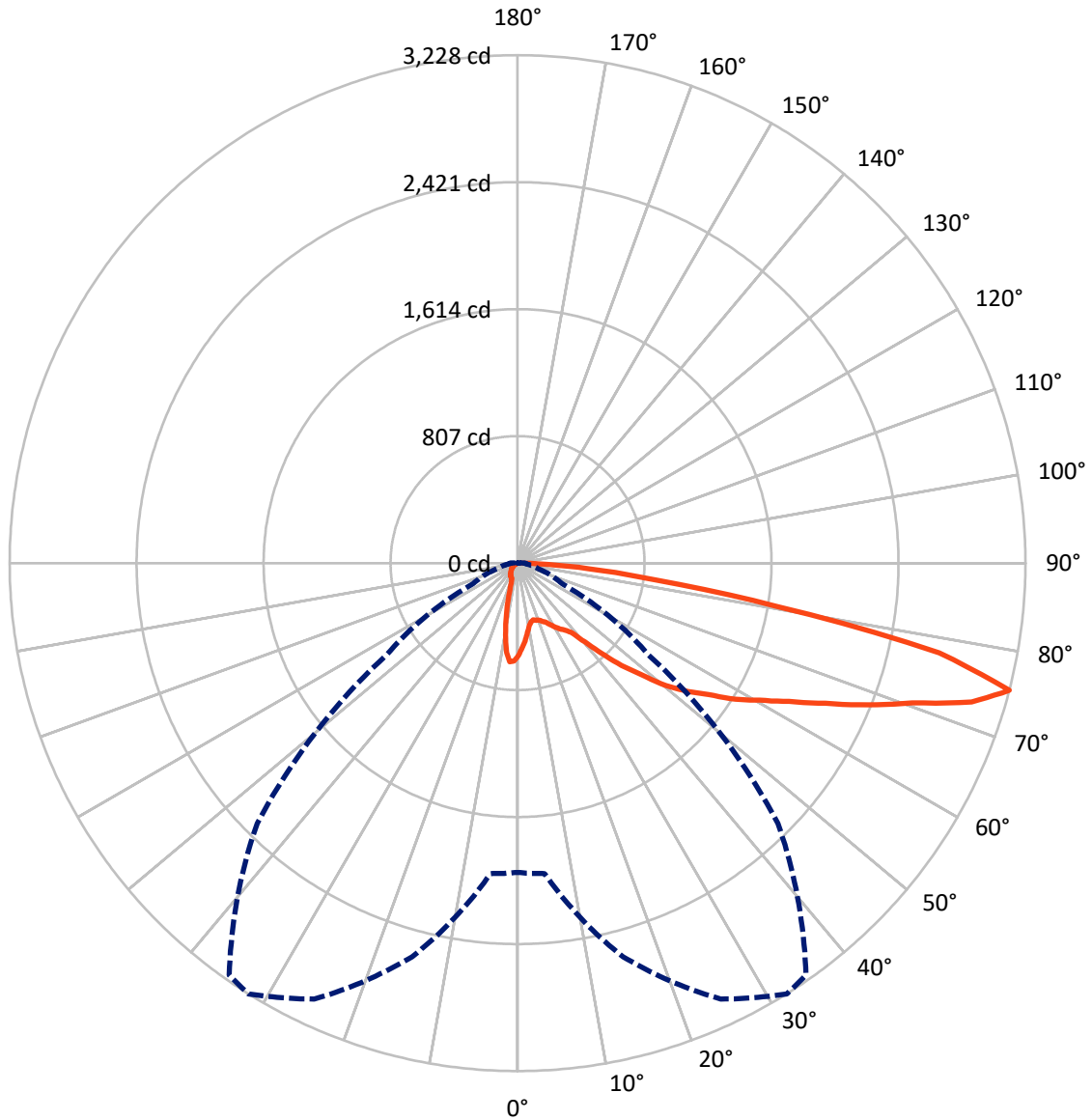
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	393.8	0.0	393.8
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	3251.5	0.0	3251.5
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	3645.4	0.0	3645.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.7	1.4
10°-20°	117.4	3.2
20°-30°	175.8	4.8
30°-40°	269.9	7.4
40°-50°	472.0	12.9
50°-60°	737.8	20.2
60°-70°	953.8	26.2
70°-80°	776.9	21.3
80°-90°	89.9	2.5
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°	3645.4	100.0
0°-180°	3645.4	100.0



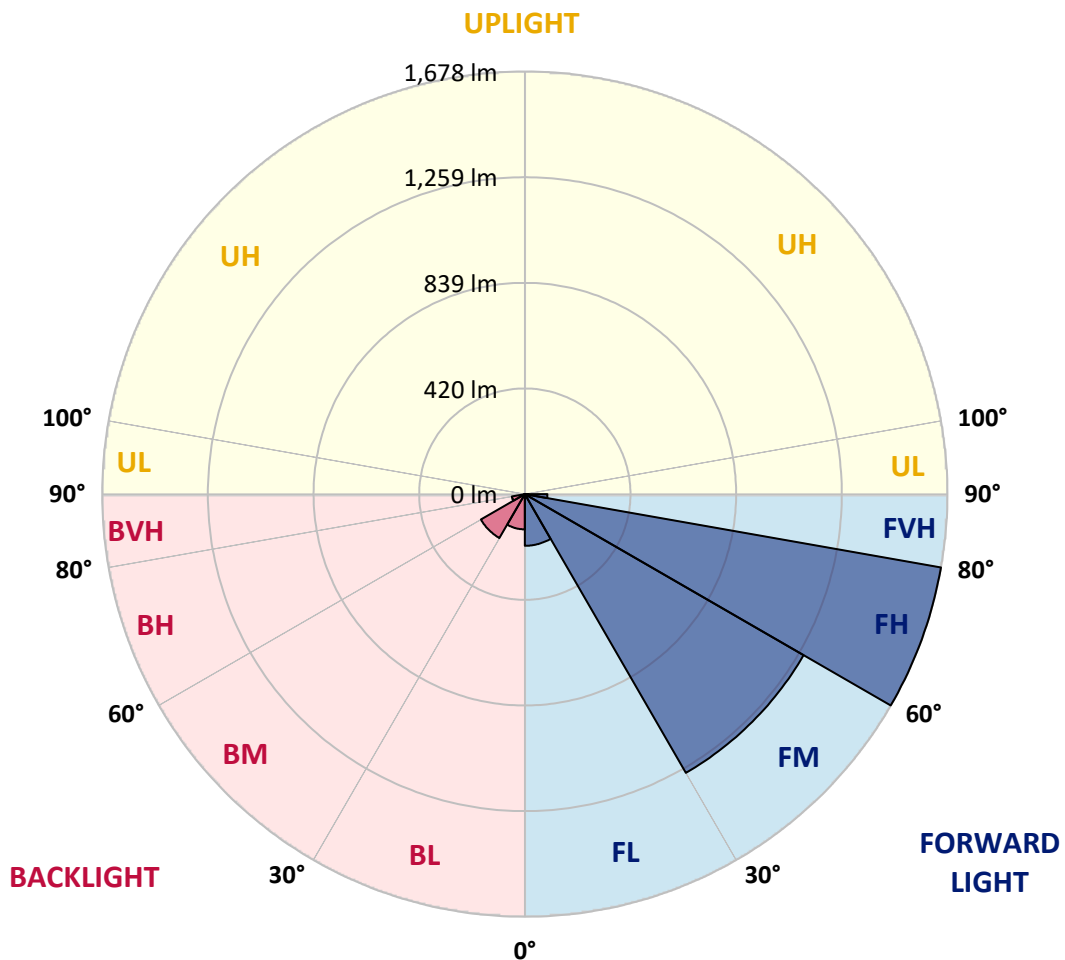
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	205.1	5.6			
FM (30°-60°)	1278.2	35.1			
FH (60°-80°)	1678.4	46.0			G1/1800
FVH (80°-90°)	89.9	2.5			G1/100
BL (0°-30°)	139.9	3.8	B1/500		
BM (30°-60°)	201.5	5.5	B0/220		
BH (60°-80°)	52.4	1.4	B0/110		G0/110
BVH (80°-90°)	0.1	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	588.6	588.6	588.6	588.6	588.6	588.6	588.6	588.6	588.6	588.6	588.6
2.5°	527.9	535.4	534.4	539.1	540.0	542.8	549.4	549.4	568.1	581.1	589.5
5°	480.2	475.6	477.4	483.0	497.0	496.1	512.0	520.4	542.8	561.5	581.1
7.5°	421.4	420.4	424.2	437.3	447.5	455.9	472.8	494.2	524.1	552.2	586.7
10°	384.0	382.1	389.6	393.3	405.5	411.1	437.3	470.9	506.4	546.6	586.7
12.5°	375.6	369.0	372.8	371.9	383.1	385.9	411.1	452.2	495.2	544.7	594.2
15°	380.3	375.6	371.9	371.9	374.7	376.5	403.6	440.1	488.6	547.5	611.0
17.5°	395.2	392.4	381.2	370.0	382.1	382.1	398.9	437.3	489.6	555.9	631.6
20°	413.0	410.2	390.5	377.5	385.9	395.2	413.0	443.8	492.4	562.5	663.4
22.5°	432.6	432.6	405.5	390.5	401.8	402.7	434.5	464.3	503.6	579.3	683.9
25°	456.9	455.0	428.8	412.0	415.8	426.0	455.0	486.8	524.1	602.6	722.2
27.5°	488.6	485.8	455.0	438.2	442.9	454.1	486.8	518.5	542.8	612.0	754.9
30°	514.8	512.0	486.8	461.5	471.8	482.1	520.4	548.4	566.2	629.7	792.3
32.5°	520.4	515.7	498.9	487.7	498.9	518.5	548.4	577.4	604.5	674.6	863.3
35°	584.9	568.1	524.1	506.4	523.2	529.7	579.3	630.7	656.8	710.1	942.7
37.5°	708.2	692.3	634.4	584.9	561.5	569.0	633.5	697.0	722.2	776.4	1029.6
40°	859.6	833.4	771.7	705.4	657.7	648.4	690.4	783.9	808.2	859.6	1143.6
42.5°	1032.4	1007.2	911.9	833.4	784.8	772.7	779.2	884.8	905.3	936.2	1218.3
45°	1156.7	1143.6	1036.1	966.1	927.8	914.7	898.8	995.0	1021.2	1031.5	1326.7
47.5°	1228.6	1219.3	1159.5	1111.8	1060.4	1046.4	1056.7	1148.3	1130.5	1138.9	1430.4
50°	1324.8	1300.5	1219.3	1234.2	1223.9	1220.2	1238.0	1278.1	1252.0	1227.7	1543.5
52.5°	1402.4	1359.4	1302.4	1338.9	1354.7	1368.8	1431.4	1461.2	1344.5	1307.1	1616.3
55°	1450.0	1408.9	1423.9	1457.5	1474.3	1538.8	1612.6	1590.2	1405.2	1370.6	1713.5
57.5°	1493.0	1495.8	1536.0	1546.3	1632.2	1643.4	1785.5	1712.6	1448.2	1428.5	1751.8
60°	1596.7	1586.4	1619.1	1685.5	1767.7	1830.3	1965.8	1794.8	1469.7	1458.4	1741.5
62.5°	1783.6	1720.1	1731.3	1815.3	1935.9	2004.1	2069.5	1832.2	1464.1	1463.1	1710.7
65°	2020.9	1948.0	1914.4	1992.9	2148.9	2245.1	2186.3	1874.2	1426.7	1452.8	1595.8
67.5°	2218.0	2219.0	2156.4	2200.3	2404.0	2424.5	2296.5	1865.8	1364.1	1371.6	1315.5
70°	2445.1	2475.9	2420.8	2558.1	2660.0	2673.0	2422.6	1796.7	1229.5	1034.3	755.9
72.5°	2503.0	2518.9	2690.8	2901.9	3016.9	3020.6	2546.9	1565.9	809.1	456.9	234.5
75°	1965.8	1980.7	2589.9	3057.0	3228.0	3195.3	2339.5	1016.5	314.9	133.6	56.1
77.5°	1096.9	1101.5	1607.9	2471.2	2738.4	2606.7	1638.8	396.1	127.1	76.6	26.2
80°	299.9	352.2	596.1	1218.3	1672.4	1641.6	780.1	128.9	82.2	59.8	12.1
82.5°	71.9	77.5	191.5	539.1	883.9	922.2	232.6	65.4	57.0	49.5	6.5
85°	26.2	29.0	58.9	262.5	454.1	416.7	70.1	32.7	42.0	38.3	2.8
87.5°	9.3	9.3	18.7	86.0	132.7	100.0	23.4	11.2	21.5	23.4	0.9
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°	588.6	588.6	588.6	588.6	588.6	588.6	588.6	588.6	588.6	588.6	588.6
2.5°	590.5	590.5	603.6	614.8	618.5	623.2	618.5	628.8	627.9	623.2	625.0
5°	591.4	608.2	619.4	626.9	630.7	629.7	631.6	620.4	613.8	609.2	604.5
7.5°	596.1	612.0	632.5	630.7	620.4	598.9	582.1	552.2	523.2	522.3	517.6
10°	612.0	626.0	638.1	630.7	593.3	527.9	474.6	434.5	398.0	381.2	383.1
12.5°	623.2	649.3	643.7	605.4	527.9	441.9	363.4	304.6	271.9	241.1	241.1
15°	646.5	655.9	654.0	569.0	447.5	344.8	249.5	189.7	155.1	141.1	139.2
17.5°	669.0	679.2	647.5	513.9	368.1	231.7	151.4	117.7	113.1	111.2	112.1
20°	697.0	697.9	641.9	458.7	276.6	146.7	108.4	105.6	106.5	105.6	105.6
22.5°	726.9	733.4	622.2	381.2	184.1	106.5	100.9	101.8	101.8	101.8	104.6
25°	766.1	755.9	591.4	307.4	120.5	98.1	98.1	99.0	99.0	99.0	100.0
27.5°	792.3	778.3	552.2	221.4	94.4	92.5	94.4	94.4	96.2	96.2	96.2
30°	846.5	810.0	502.7	142.9	85.0	87.8	89.7	91.6	92.5	94.4	95.3
32.5°	888.5	838.1	441.0	95.3	77.5	79.4	84.1	87.8	91.6	90.6	90.6
35°	965.1	883.9	384.0	75.7	71.0	71.0	75.7	82.2	87.8	89.7	89.7
37.5°	1053.0	921.2	304.6	69.1	65.4	65.4	68.2	75.7	83.2	86.9	85.0
40°	1125.8	964.2	225.2	64.5	60.7	60.7	62.6	68.2	76.6	83.2	84.1
42.5°	1177.2	996.0	152.3	59.8	57.0	56.1	58.9	61.7	68.2	77.5	79.4
45°	1223.9	1012.8	94.4	55.1	53.3	53.3	53.3	56.1	60.7	69.1	71.0
47.5°	1307.1	1031.5	68.2	51.4	48.6	49.5	50.5	51.4	55.1	57.0	57.9
50°	1377.2	1045.5	56.1	47.6	45.8	46.7	46.7	46.7	48.6	45.8	45.8
52.5°	1430.4	1031.5	47.6	43.9	42.0	43.0	42.0	42.0	40.2	36.4	36.4
55°	1469.7	1006.2	38.3	40.2	40.2	40.2	38.3	35.5	31.8	29.0	29.0
57.5°	1479.9	963.3	29.9	33.6	36.4	36.4	32.7	29.0	24.3	21.5	20.6
60°	1464.1	869.8	22.4	24.3	28.0	29.0	26.2	21.5	16.8	14.0	14.0
62.5°	1407.1	796.0	17.8	15.9	20.6	21.5	18.7	14.0	9.3	6.5	5.6
65°	1298.7	682.0	13.1	11.2	14.0	14.9	12.1	6.5	2.8	0.9	0.0
67.5°	1041.7	513.9	8.4	7.5	9.3	9.3	5.6	1.9	0.0	0.0	0.0
70°	576.5	288.7	5.6	3.7	4.7	2.8	0.9	0.0	0.0	0.0	0.0
72.5°	166.3	82.2	2.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	44.8	19.6	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	19.6	7.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	8.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.0	0.0	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)