

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: STREETWORKS

Report Number: P194219

Luminaire Tested: **GAN-AF-01-LED-U-5WQ-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-5WQ-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5304 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 44
Input Voltage (V): NR
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: 28.75 FT

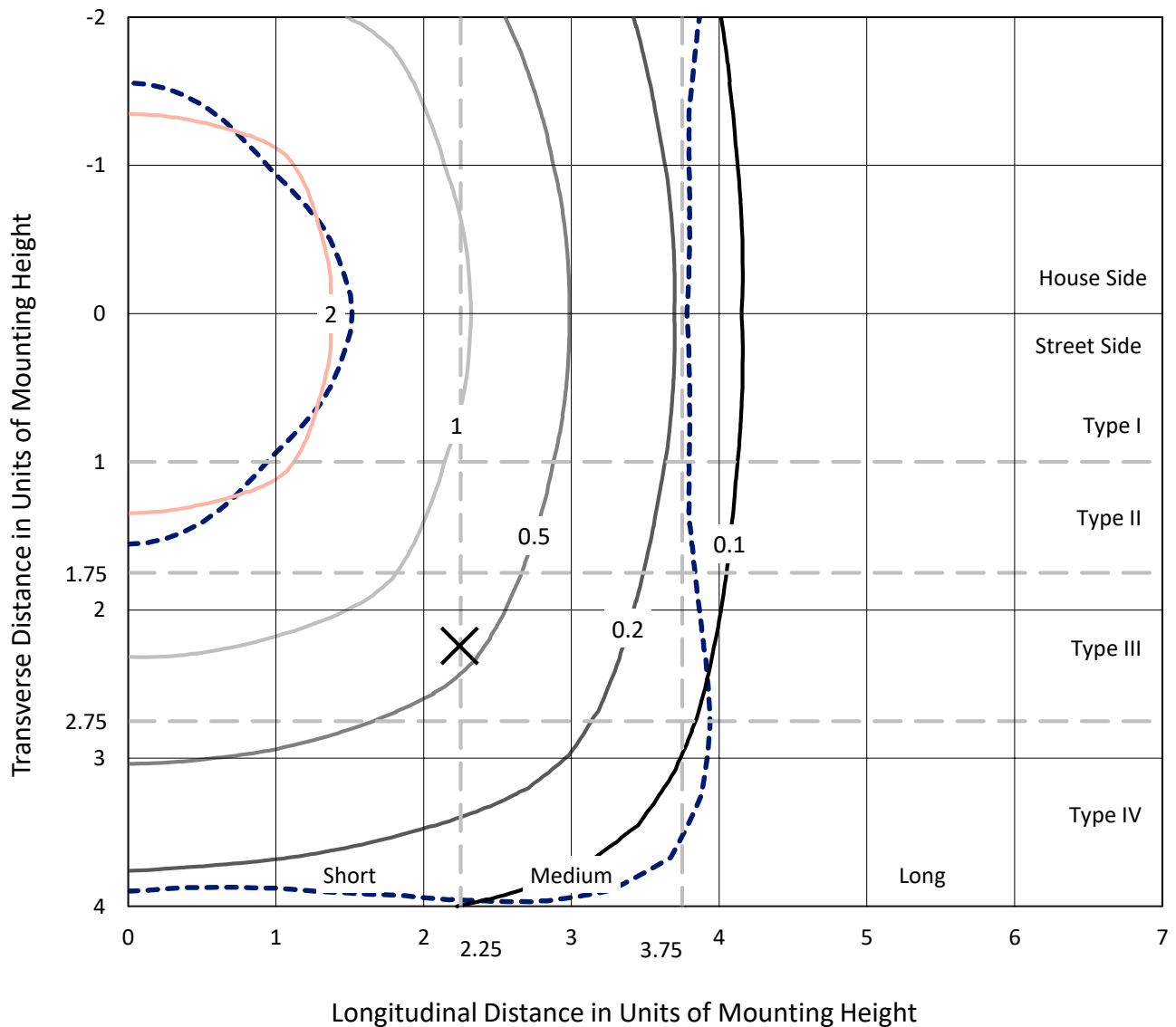


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

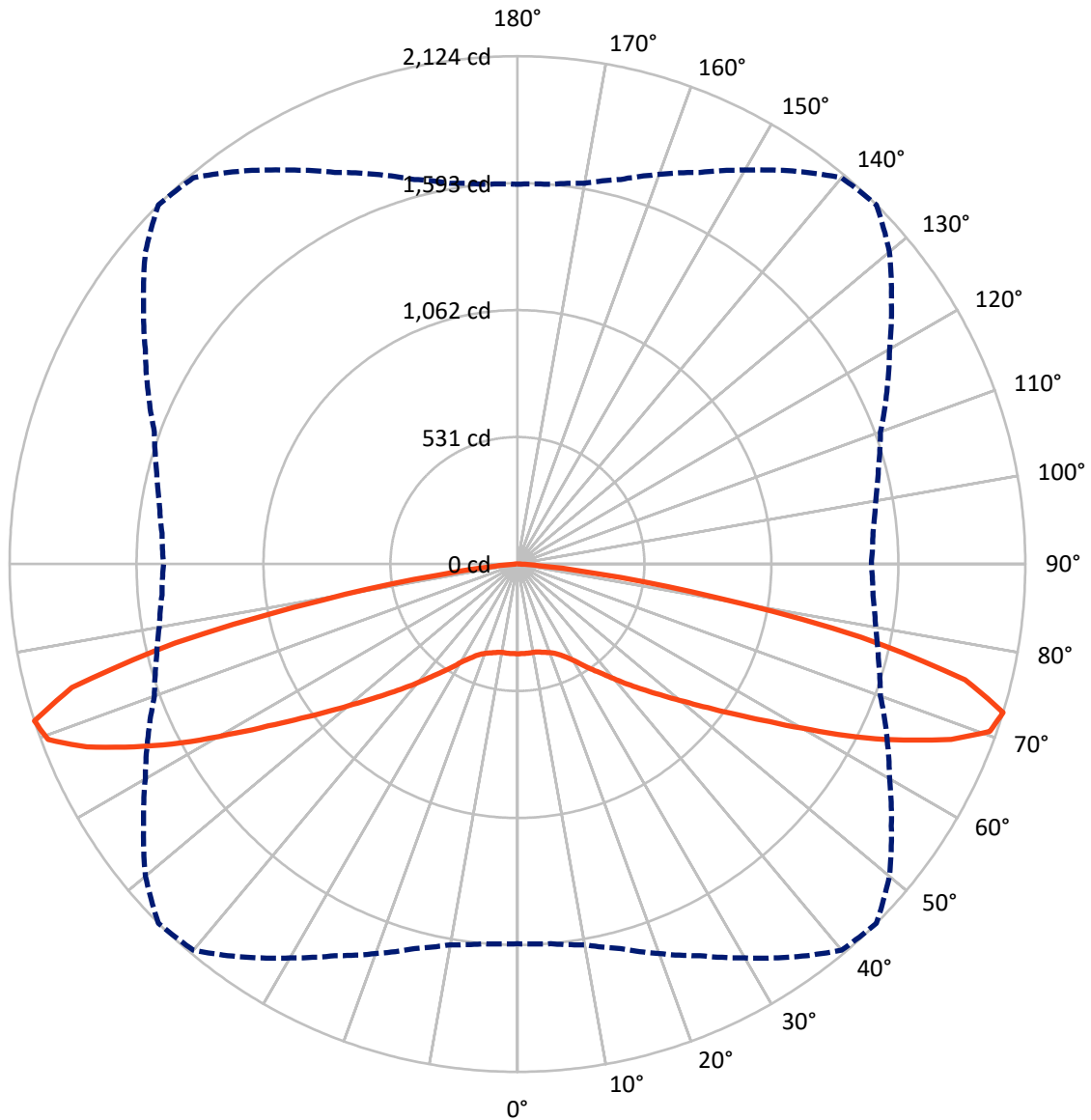


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2652.0	0.0	2652.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2652.0	0.0	2652.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5304.0	0.0	5304.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.9	0.7
10°-20°	108.9	2.1
20°-30°	199.1	3.8
30°-40°	343.2	6.5
40°-50°	586.7	11.1
50°-60°	951.0	17.9
60°-70°	1577.7	29.7
70°-80°	1389.5	26.2
80°-90°	112.0	2.1
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°	5304.0	100.0
0°-180°	5304.0	100.0



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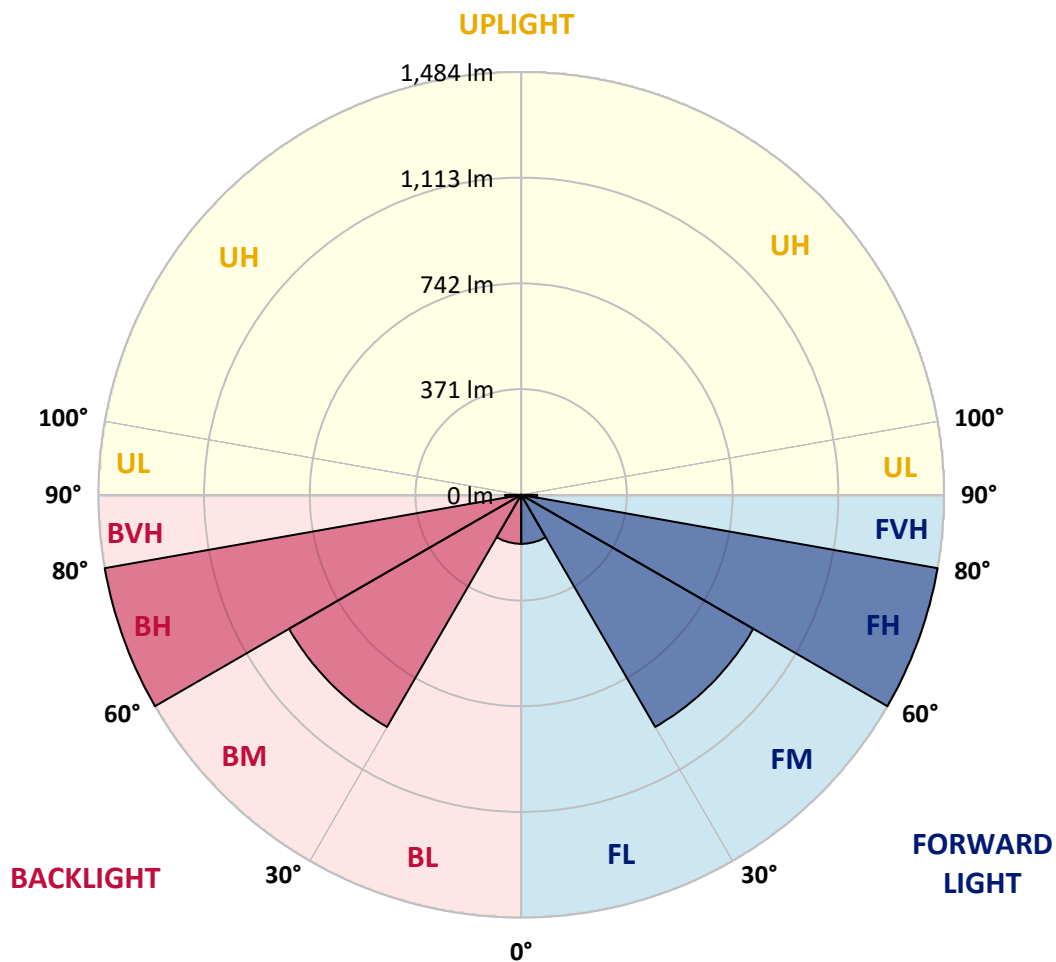
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	171.9	3.2			
FM	(30°-60°)	940.5	17.7			
FH	(60°-80°)	1483.6	28.0			G1/1800
FVH	(80°-90°)	56.0	1.1			G1/100
BL	(0°-30°)	171.9	3.2	B1/500		
BM	(30°-60°)	940.5	17.7	B1/1000		
BH	(60°-80°)	1483.6	28.0	B3/2500		G1/1800
BVH	(80°-90°)	56.0	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6
2.5°	375.6	375.8	376.1	375.8	375.8	375.6	375.4	375.6	375.4	374.9	375.1
5°	376.8	377.3	377.3	376.8	377.1	376.8	376.3	376.6	376.1	375.4	375.4
7.5°	378.3	378.5	378.5	378.0	378.3	377.8	377.3	377.1	376.6	375.6	374.9
10°	380.5	380.7	380.5	380.0	380.0	379.3	378.0	377.6	376.6	375.1	374.4
12.5°	382.9	383.1	382.9	382.4	382.2	381.0	380.0	379.3	378.5	377.3	376.1
15°	386.3	386.8	386.3	385.3	384.6	383.6	383.1	383.4	383.6	382.7	381.4
17.5°	392.6	392.9	392.1	390.0	389.0	388.0	388.0	388.5	389.2	388.7	387.5
20°	404.3	403.6	401.9	399.2	398.0	396.3	396.0	396.3	396.3	396.0	395.1
22.5°	418.9	418.4	416.2	412.8	411.1	410.1	408.7	407.5	407.2	406.5	405.5
25°	436.4	436.2	433.5	430.6	429.4	428.2	426.9	425.2	423.8	422.1	421.1
27.5°	458.8	457.8	453.9	452.5	450.8	450.0	448.3	446.4	445.2	443.0	441.8
30°	483.4	483.4	480.2	479.7	479.7	478.0	476.1	472.7	470.5	468.3	467.6
32.5°	507.9	508.2	505.0	506.0	506.7	507.9	508.4	507.2	505.8	505.5	504.1
35°	543.5	542.5	539.3	540.1	539.8	539.6	539.6	542.2	542.7	543.2	540.3
37.5°	587.5	587.5	584.3	584.3	582.9	581.4	579.5	581.2	583.8	584.6	582.6
40°	637.8	639.6	635.7	635.4	635.9	631.3	629.1	631.8	633.5	636.4	634.2
42.5°	697.2	696.0	692.1	691.6	688.9	687.5	685.5	687.7	690.4	692.3	693.1
45°	754.1	753.2	748.8	748.8	746.1	744.9	745.9	749.5	750.7	753.4	756.1
47.5°	810.3	809.1	806.2	807.4	807.6	809.8	813.0	816.4	819.8	823.5	824.7
50°	867.7	868.0	864.8	867.7	871.4	877.5	886.0	891.6	898.6	903.3	904.7
52.5°	920.0	921.0	924.4	931.2	938.5	950.4	965.0	978.7	990.3	998.1	997.6
55°	982.8	984.3	992.5	1004.2	1016.1	1034.1	1055.8	1079.9	1099.3	1110.5	1103.5
57.5°	1063.1	1066.2	1075.5	1091.3	1109.1	1132.4	1162.1	1198.3	1228.5	1243.6	1232.2
60°	1173.3	1175.2	1186.4	1203.9	1225.3	1254.3	1293.9	1342.6	1385.2	1405.1	1392.0
62.5°	1318.5	1322.2	1331.2	1348.9	1370.8	1403.7	1452.1	1512.9	1565.9	1593.6	1564.0
65°	1492.0	1503.6	1511.2	1529.2	1549.6	1584.4	1635.0	1700.2	1757.1	1775.4	1741.1
67.5°	1663.7	1673.9	1687.1	1707.7	1728.4	1767.6	1814.5	1877.8	1940.3	1956.8	1903.6
70°	1738.9	1744.7	1765.2	1793.4	1833.0	1879.2	1933.5	2004.5	2081.9	2095.5	2027.9
72.5°	1588.3	1594.1	1617.0	1664.9	1734.0	1807.5	1902.1	2006.5	2108.6	2124.0	2030.8
75°	1201.3	1191.8	1225.6	1289.1	1382.2	1484.7	1617.0	1766.6	1914.3	1933.5	1822.3
77.5°	620.8	619.6	645.1	724.0	835.1	951.7	1097.4	1266.5	1411.0	1469.3	1378.8
80°	174.9	176.9	189.0	228.2	293.1	377.3	491.2	649.5	767.8	828.1	777.5
82.5°	68.6	74.0	78.6	85.9	94.4	106.8	142.6	212.1	284.6	340.1	278.5
85°	24.6	26.3	37.2	44.0	44.8	47.2	53.8	62.8	75.7	90.3	74.2
87.5°	9.2	10.2	11.9	19.7	19.5	17.8	21.7	22.6	17.0	15.6	19.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6
2.5°	374.6	374.9	374.9	375.1	375.4	375.4	375.8	375.8
5°	374.9	374.9	374.4	374.6	374.4	374.4	374.6	374.6
7.5°	374.4	374.1	373.7	373.4	372.9	372.9	372.9	372.9
10°	373.7	373.4	372.9	372.7	372.4	372.4	372.4	372.4
12.5°	375.6	374.9	374.4	374.1	374.1	374.1	374.1	374.1
15°	380.7	379.0	377.8	377.8	378.0	378.5	378.5	379.0
17.5°	387.0	385.1	383.9	382.9	383.4	384.1	384.6	385.1
20°	394.6	393.6	391.9	390.9	390.9	391.9	392.4	392.6
22.5°	405.0	404.3	403.6	402.4	402.4	402.9	403.8	403.8
25°	420.6	420.1	419.6	418.7	418.4	418.4	418.9	419.4
27.5°	440.1	440.3	439.8	439.6	438.9	438.6	439.3	439.1
30°	466.1	467.3	468.5	467.6	466.3	465.6	464.9	463.9
32.5°	501.4	499.9	498.9	497.2	495.1	493.1	491.6	489.9
35°	534.7	532.3	531.3	532.8	532.5	531.3	529.6	528.1
37.5°	575.6	575.1	575.6	578.2	577.8	579.0	575.6	575.3
40°	627.1	627.6	631.0	634.2	635.9	637.6	635.7	633.7
42.5°	687.0	686.7	688.0	692.3	695.3	697.2	693.1	692.6
45°	750.2	748.5	749.5	753.2	756.1	758.3	753.6	753.6
47.5°	819.8	816.9	813.7	817.9	819.6	821.0	817.4	816.2
50°	897.4	891.3	884.5	886.2	886.2	885.7	881.1	880.9
52.5°	986.5	975.3	962.9	958.2	955.6	952.6	944.6	940.7
55°	1088.9	1072.1	1052.6	1040.7	1034.4	1026.3	1013.0	1009.3
57.5°	1208.6	1182.3	1148.7	1134.1	1120.0	1106.9	1092.0	1087.9
60°	1350.4	1311.7	1267.2	1240.2	1224.9	1212.2	1196.9	1196.1
62.5°	1508.5	1447.4	1397.1	1372.8	1361.6	1350.4	1335.8	1337.7
65°	1669.3	1605.6	1558.4	1538.7	1528.2	1519.0	1504.4	1506.6
67.5°	1827.9	1769.3	1717.5	1697.3	1685.6	1673.9	1660.8	1663.0
70°	1941.8	1869.0	1810.6	1765.9	1737.9	1706.3	1685.8	1680.7
72.5°	1909.2	1797.0	1704.3	1615.5	1563.5	1521.2	1492.4	1480.0
75°	1652.3	1499.0	1379.8	1270.8	1209.5	1159.7	1123.4	1100.8
77.5°	1227.0	1054.8	914.0	788.4	689.2	622.5	575.6	545.2
80°	671.7	510.9	373.4	262.5	192.9	160.3	141.6	132.6
82.5°	209.2	135.0	99.5	85.9	79.8	76.4	70.8	61.8
85°	66.7	58.4	54.2	51.8	49.4	43.1	29.7	27.0
87.5°	25.8	26.5	26.3	24.8	25.3	18.2	14.6	12.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)