

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: P268167

Luminaire Tested: **GAN-AF-01-LED-U-5NQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-5NQ-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4512.9 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - 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

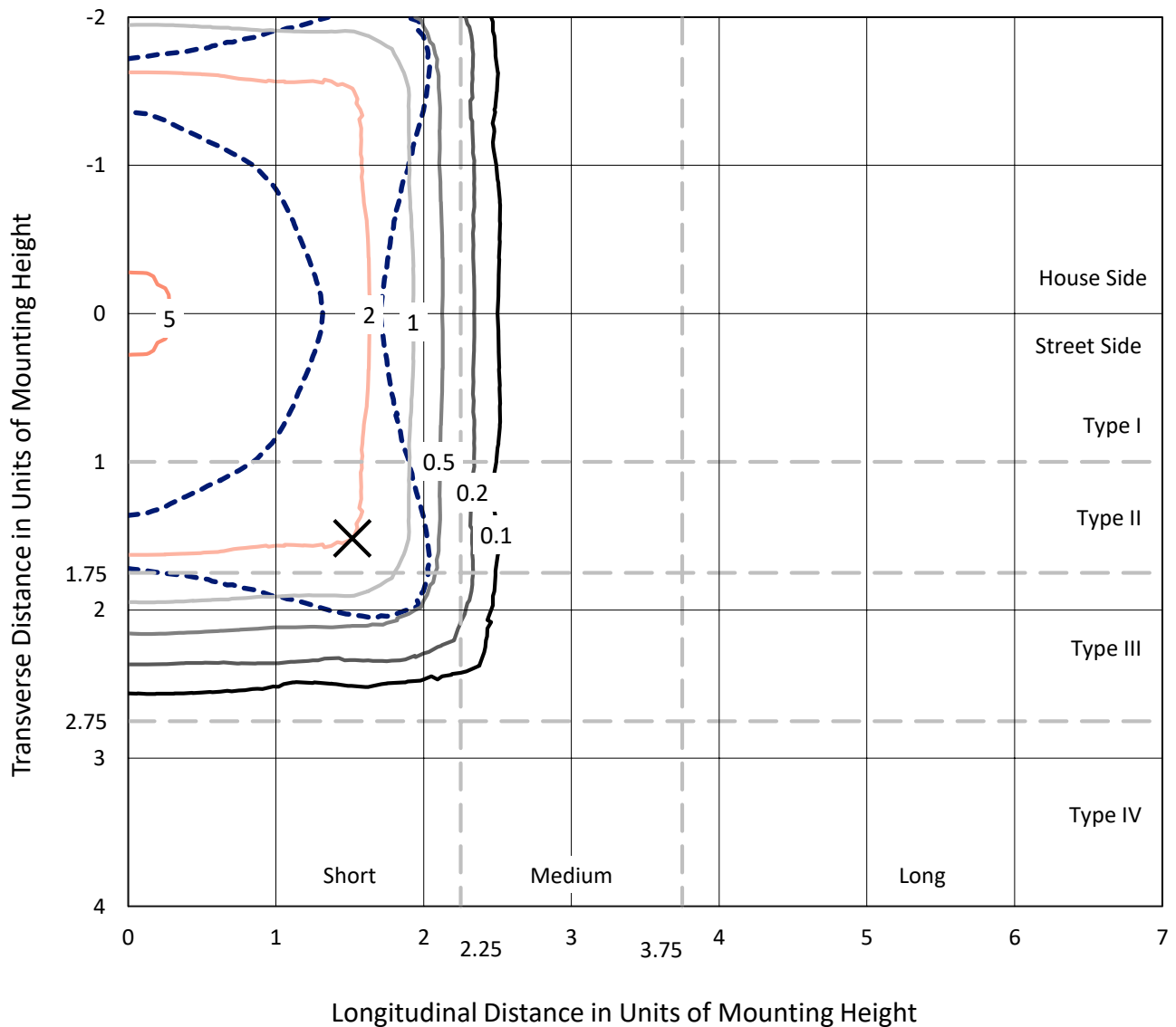


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

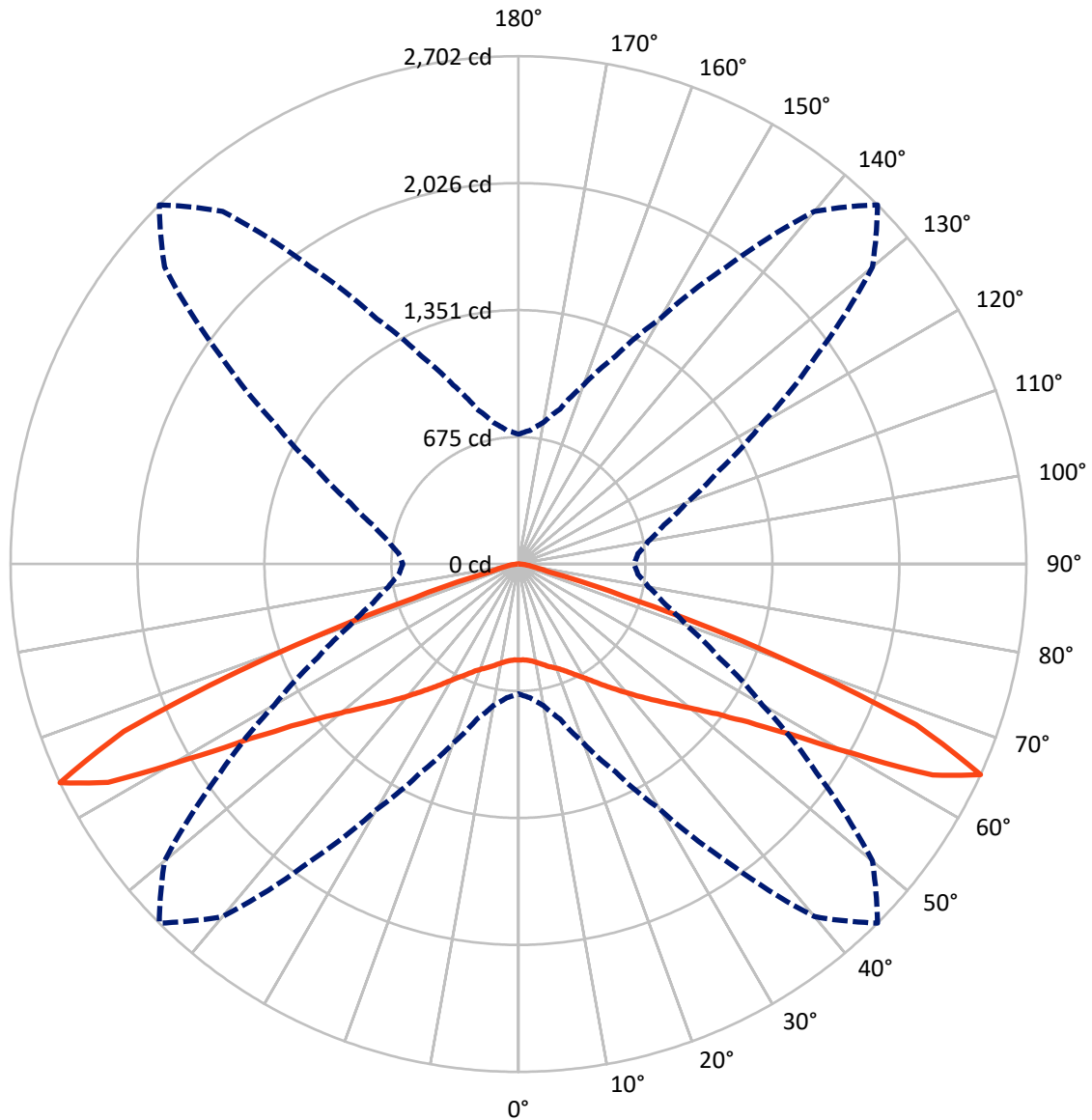


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2256.4	0.0	2256.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2256.4	0.0	2256.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	4512.9	0.0	4512.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.8	1.1
10°-20°	159.6	3.5
20°-30°	298.5	6.6
30°-40°	504.8	11.2
40°-50°	825.4	18.3
50°-60°	1312.5	29.1
60°-70°	1186.4	26.3
70°-80°	150.1	3.3
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°	4512.9	100.0
0°-180°	4512.9	100.0



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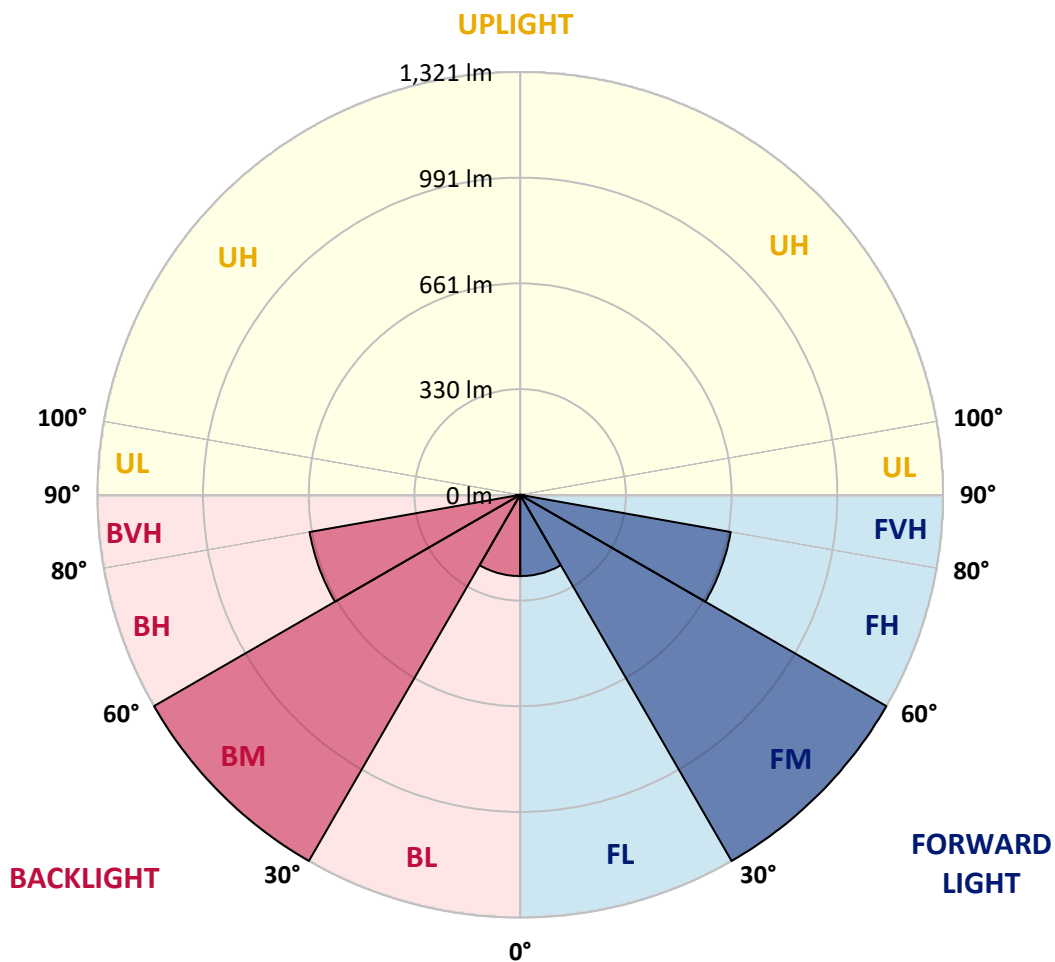
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	253.9	5.6			
FM	(30°-60°)	1321.3	29.3			
FH	(60°-80°)	668.3	14.8			G1/1800
FVH	(80°-90°)	12.9	0.3			G1/100
BL	(0°-30°)	253.9	5.6	B1/500		
BM	(30°-60°)	1321.3	29.3	B2/2500		
BH	(60°-80°)	668.3	14.8	B2/1000		G1/1800
BVH	(80°-90°)	12.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	510.6	510.6	510.6	510.6	510.6	510.6	510.6	510.6	510.6	510.6	510.6
2.5°	511.0	511.5	511.9	511.5	511.9	511.2	510.9	511.5	510.9	510.1	510.6
5°	515.4	515.6	515.6	515.1	515.6	515.3	514.6	515.4	514.9	514.2	514.6
7.5°	523.0	523.7	523.2	522.5	523.0	522.5	522.0	522.3	522.0	521.3	521.6
10°	532.9	533.5	533.1	532.9	533.2	533.1	532.6	532.3	532.6	531.9	531.9
12.5°	544.9	544.6	544.5	544.6	545.4	545.4	545.1	545.4	545.7	545.9	545.5
15°	556.7	557.0	557.0	557.0	558.3	559.5	560.2	560.5	561.4	561.6	560.7
17.5°	571.5	571.5	571.3	571.5	572.8	574.5	575.0	576.0	576.8	577.4	576.4
20°	588.0	588.4	588.4	588.7	590.5	592.4	592.4	592.8	592.4	592.8	592.3
22.5°	608.1	609.3	609.3	609.5	611.2	613.5	613.0	613.5	612.6	613.4	612.6
25°	634.3	636.2	635.7	635.7	637.0	638.4	638.8	640.0	639.8	640.9	640.2
27.5°	663.8	666.8	667.7	667.4	668.2	669.7	670.1	671.8	670.9	671.8	671.3
30°	699.4	700.7	702.4	703.0	704.0	705.4	705.4	705.7	704.7	705.9	706.5
32.5°	736.2	738.4	740.2	743.9	745.9	746.9	746.8	747.1	746.1	747.7	749.0
35°	784.8	786.5	789.3	792.1	794.7	794.6	793.8	794.0	794.0	795.4	796.7
37.5°	843.2	843.7	847.3	851.6	852.9	851.6	847.7	846.9	844.9	846.9	849.0
40°	905.2	906.7	913.8	916.6	917.3	915.0	909.4	906.3	902.1	904.4	907.4
42.5°	970.1	973.0	979.6	984.5	986.6	985.1	977.5	972.7	967.1	968.5	971.3
45°	1041.9	1045.5	1054.9	1059.6	1063.6	1061.2	1053.8	1046.4	1037.7	1038.4	1043.0
47.5°	1122.3	1125.8	1138.0	1145.8	1147.9	1147.5	1139.2	1129.1	1117.2	1116.9	1120.8
50°	1212.4	1215.9	1230.9	1243.0	1249.2	1248.5	1238.8	1224.4	1209.9	1210.1	1215.2
52.5°	1300.2	1304.7	1320.2	1341.0	1353.0	1361.7	1355.8	1342.2	1324.8	1325.2	1329.9
55°	1382.8	1390.0	1408.1	1436.1	1458.6	1482.8	1489.7	1489.4	1478.8	1481.8	1486.4
57.5°	1422.6	1433.7	1461.4	1505.6	1551.4	1600.8	1642.6	1673.9	1687.2	1707.3	1702.6
60°	1347.0	1364.4	1405.3	1470.5	1560.8	1664.0	1774.5	1882.6	1974.7	2044.3	2004.3
62.5°	1102.8	1125.7	1175.2	1258.9	1395.3	1560.4	1771.9	2027.4	2305.5	2473.3	2353.4
65°	690.1	713.8	764.1	853.7	1013.5	1218.7	1505.6	1928.8	2448.5	2701.6	2457.7
67.5°	269.0	282.0	309.1	366.5	486.5	669.1	957.2	1437.4	2059.1	2280.7	2020.7
70°	134.8	136.2	141.2	151.8	177.5	230.5	350.9	666.5	1180.8	1426.1	1138.3
72.5°	97.5	97.6	100.3	104.8	113.0	125.0	147.7	203.9	384.0	587.0	360.0
75°	74.6	75.5	77.0	79.5	83.9	89.8	98.1	117.5	145.6	168.9	142.0
77.5°	57.5	59.2	60.2	62.5	65.2	69.3	71.7	79.1	91.9	96.7	95.3
80°	43.7	45.3	47.6	49.4	51.4	53.3	52.5	55.9	62.5	66.6	64.5
82.5°	27.8	29.6	36.3	38.1	38.8	40.2	38.6	38.8	41.9	44.3	41.9
85°	18.0	19.0	23.0	25.2	25.3	26.2	25.6	24.1	24.1	22.0	24.8
87.5°	8.3	8.4	10.4	12.2	12.7	11.4	11.1	10.8	8.7	8.3	8.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	510.6	510.6	510.6	510.6	510.6	510.6	510.6	510.6
2.5°	510.4	510.9	511.0	511.7	511.9	511.9	512.2	512.6
5°	514.4	515.1	515.3	516.2	516.3	516.2	516.5	516.7
7.5°	521.6	522.6	523.2	523.9	523.4	524.2	524.4	524.4
10°	532.2	533.2	533.5	534.3	534.0	534.3	534.3	534.0
12.5°	546.1	546.3	545.7	546.3	545.5	545.9	545.4	544.9
15°	561.6	560.9	559.5	559.5	558.1	558.3	558.1	557.9
17.5°	576.6	575.4	574.2	573.8	572.8	572.6	572.0	572.0
20°	593.1	592.4	591.9	590.9	589.8	588.7	588.6	589.1
22.5°	613.0	612.7	612.7	612.3	610.8	609.8	609.1	609.1
25°	639.6	637.6	637.6	637.4	636.8	636.2	634.9	635.6
27.5°	669.5	668.5	669.3	669.1	668.5	668.5	667.7	667.7
30°	706.5	706.2	707.3	706.3	704.2	704.0	703.2	702.1
32.5°	749.2	748.8	750.8	749.5	746.1	744.2	742.4	741.6
35°	796.7	797.1	799.3	798.6	794.7	793.5	790.5	790.0
37.5°	848.8	852.2	856.3	857.1	853.8	853.0	849.8	848.2
40°	909.9	914.4	920.5	921.9	918.5	917.9	913.4	911.2
42.5°	975.0	982.6	990.2	991.5	988.0	984.7	980.5	978.8
45°	1047.8	1056.8	1066.6	1069.3	1064.1	1060.2	1054.7	1054.7
47.5°	1129.3	1140.7	1151.8	1158.9	1154.2	1150.0	1143.5	1139.2
50°	1225.6	1241.3	1255.9	1263.0	1255.7	1247.7	1236.2	1232.5
52.5°	1346.5	1363.4	1376.2	1372.3	1360.9	1349.8	1337.2	1332.1
55°	1500.8	1506.5	1506.5	1492.2	1469.4	1450.6	1430.9	1424.4
57.5°	1693.8	1671.8	1638.0	1595.1	1541.2	1494.3	1462.6	1447.6
60°	1920.5	1814.8	1695.6	1578.2	1481.8	1402.3	1355.3	1333.7
62.5°	2071.8	1795.3	1556.0	1367.7	1229.1	1133.3	1068.2	1042.8
65°	1936.1	1497.2	1176.8	951.6	800.4	703.0	638.4	614.8
67.5°	1418.2	938.2	626.7	449.2	329.0	262.6	236.1	225.0
70°	636.5	330.3	202.5	158.1	136.4	125.1	120.3	118.5
72.5°	191.9	138.9	117.0	105.7	96.9	91.4	87.6	87.0
75°	115.8	96.4	85.6	78.8	73.3	68.9	66.7	66.1
77.5°	80.9	70.7	65.8	60.8	56.7	53.3	51.4	49.9
80°	56.9	52.0	49.6	46.9	44.1	41.1	38.3	37.0
82.5°	38.1	37.0	37.0	35.4	33.0	30.1	24.6	23.3
85°	24.6	24.3	24.8	24.1	22.4	19.3	15.9	15.0
87.5°	11.4	11.6	12.8	12.7	12.2	10.2	8.1	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)