

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: McGRAW-EDISON

Report Number: P193429

Luminaire Tested: **GLEON-AF-01-LED-E1-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193429
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: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-5WQ-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5356 lumens
Efficiency: N/A
Efficacy: 90.8 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): 59
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: 25 FT

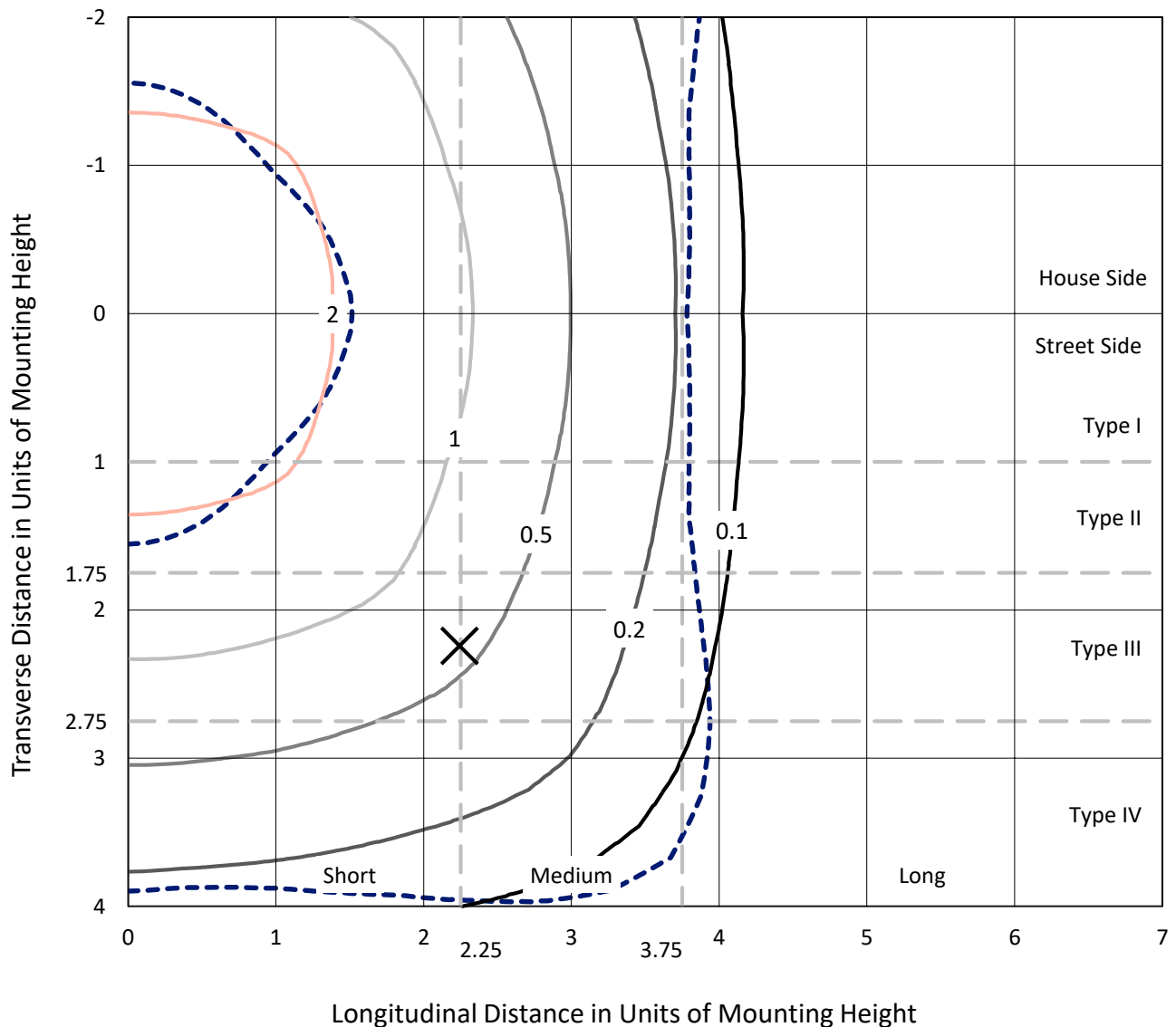


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Iso-Footcandle Lines of Horizontal Illumination

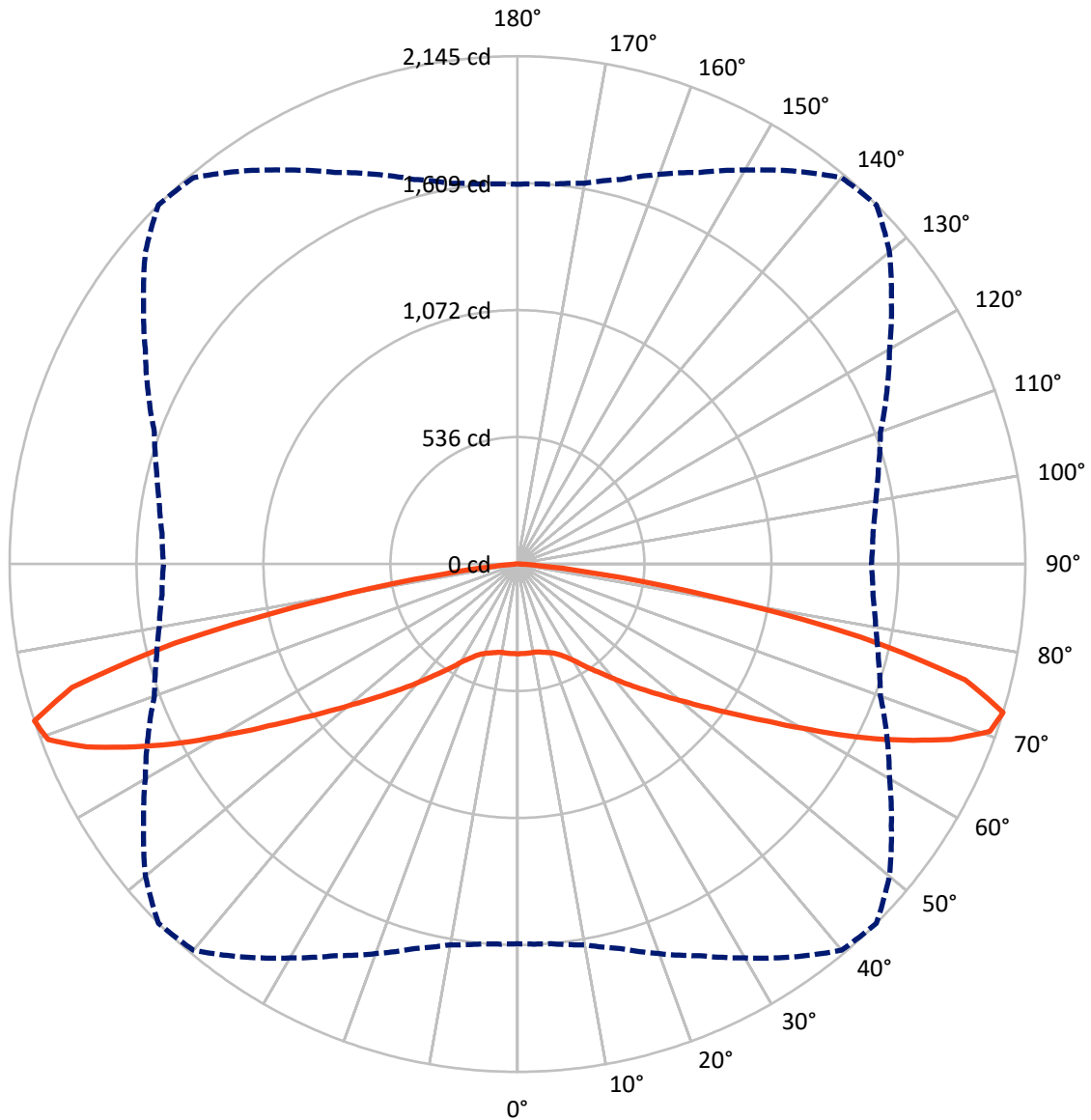
× Max cd
 - - - 1/2 Max cd



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	2678.0	0.0	2678.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2678.0	0.0	2678.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5356.0	0.0	5356.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.2	0.7
10°-20°	110.0	2.1
20°-30°	201.0	3.8
30°-40°	346.6	6.5
40°-50°	592.5	11.1
50°-60°	960.3	17.9
60°-70°	1593.1	29.7
70°-80°	1403.2	26.2
80°-90°	113.1	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°	5356.0	100.0
0°-180°	5356.0	100.0



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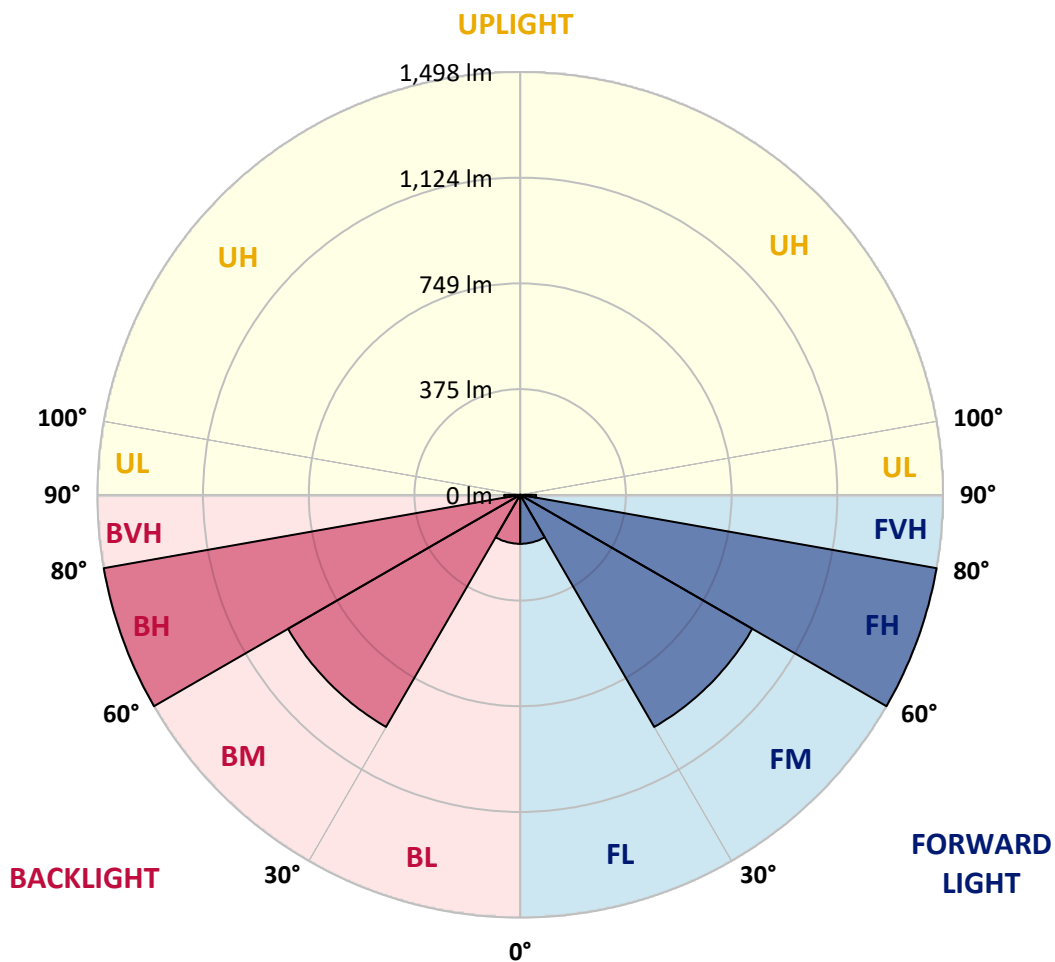
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	173.6	3.2			
FM (30°-60°)	949.7	17.7			
FH (60°-80°)	1498.1	28.0			G1/1800
FVH (80°-90°)	56.6	1.1			G1/100
BL (0°-30°)	173.6	3.2	B1/500		
BM (30°-60°)	949.7	17.7	B1/1000		
BH (60°-80°)	1498.1	28.0	B3/2500		G1/1800
BVH (80°-90°)	56.6	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°	379.3	379.3	379.3	379.3	379.3	379.3	379.3	379.3	379.3	379.3	379.3
2.5°	379.3	379.5	379.8	379.5	379.5	379.3	379.0	379.3	379.0	378.6	378.8
5°	380.5	381.0	381.0	380.5	380.8	380.5	380.0	380.3	379.8	379.0	379.0
7.5°	382.0	382.2	382.2	381.7	382.0	381.5	381.0	380.8	380.3	379.3	378.6
10°	384.2	384.4	384.2	383.7	383.7	383.0	381.7	381.3	380.3	378.8	378.1
12.5°	386.7	386.9	386.7	386.2	385.9	384.7	383.7	383.0	382.2	381.0	379.8
15°	390.1	390.6	390.1	389.1	388.4	387.4	386.9	387.1	387.4	386.4	385.2
17.5°	396.5	396.7	396.0	393.8	392.8	391.8	391.8	392.3	393.0	392.6	391.3
20°	408.3	407.5	405.8	403.1	401.9	400.2	399.9	400.2	400.2	399.9	398.9
22.5°	423.0	422.5	420.3	416.9	415.2	414.2	412.7	411.5	411.2	410.5	409.5
25°	440.7	440.5	437.8	434.8	433.6	432.3	431.1	429.4	427.9	426.2	425.2
27.5°	463.3	462.3	458.4	456.9	455.2	454.5	452.7	450.8	449.5	447.3	446.1
30°	488.1	488.1	484.9	484.4	484.4	482.7	480.7	477.3	475.1	472.9	472.1
32.5°	512.9	513.2	510.0	511.0	511.7	512.9	513.4	512.2	510.7	510.5	509.0
35°	548.8	547.8	544.6	545.3	545.1	544.9	544.9	547.6	548.1	548.5	545.6
37.5°	593.3	593.3	590.1	590.1	588.6	587.1	585.1	586.9	589.6	590.3	588.3
40°	644.1	645.8	641.9	641.6	642.1	637.5	635.3	638.0	639.7	642.6	640.4
42.5°	704.0	702.8	698.9	698.4	695.7	694.2	692.2	694.5	697.2	699.1	699.9
45°	761.5	760.5	756.1	756.1	753.4	752.2	753.2	756.9	758.1	760.8	763.5
47.5°	818.3	817.0	814.1	815.3	815.6	817.8	821.0	824.4	827.9	831.5	832.8
50°	876.2	876.5	873.3	876.2	879.9	886.1	894.7	900.3	907.4	912.1	913.6
52.5°	929.1	930.0	933.5	940.4	947.7	959.8	974.5	988.3	1000.1	1007.9	1007.4
55°	992.4	993.9	1002.3	1014.1	1026.1	1044.3	1066.1	1090.5	1110.1	1121.4	1114.3
57.5°	1073.5	1076.7	1086.0	1102.0	1119.9	1143.5	1173.5	1210.1	1240.5	1255.8	1244.2
60°	1184.8	1186.7	1198.0	1215.7	1237.4	1266.6	1306.6	1355.8	1398.7	1418.9	1405.6
62.5°	1331.4	1335.1	1344.2	1362.1	1384.3	1417.4	1466.3	1527.7	1581.3	1609.3	1579.3
65°	1506.6	1518.4	1526.0	1544.2	1564.8	1599.9	1651.0	1716.9	1774.4	1792.8	1758.1
67.5°	1680.0	1690.3	1703.6	1724.5	1745.4	1784.9	1832.3	1896.2	1959.3	1976.0	1922.2
70°	1755.9	1761.8	1782.5	1811.0	1851.0	1897.7	1952.4	2024.2	2102.3	2116.1	2047.8
72.5°	1603.9	1609.8	1632.9	1681.2	1751.0	1825.2	1920.8	2026.1	2129.3	2144.8	2050.7
75°	1213.0	1203.5	1237.6	1301.7	1395.8	1499.2	1632.9	1783.9	1933.0	1952.4	1840.2
77.5°	626.9	625.7	651.5	731.1	843.3	961.0	1108.1	1278.9	1424.8	1483.7	1392.4
80°	176.6	178.6	190.9	230.4	296.0	381.0	496.0	655.9	775.3	836.2	785.1
82.5°	69.3	74.7	79.3	86.7	95.3	107.8	144.0	214.2	287.4	343.4	281.3
85°	24.8	26.5	37.6	44.5	45.2	47.7	54.3	63.4	76.4	91.1	74.9
87.5°	9.3	10.3	12.0	19.9	19.7	17.9	21.9	22.8	17.2	15.7	19.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	379.3	379.3	379.3	379.3	379.3	379.3	379.3	379.3
2.5°	378.3	378.6	378.6	378.8	379.0	379.0	379.5	379.5
5°	378.6	378.6	378.1	378.3	378.1	378.1	378.3	378.3
7.5°	378.1	377.8	377.3	377.1	376.6	376.6	376.6	376.6
10°	377.3	377.1	376.6	376.3	376.1	376.1	376.1	376.1
12.5°	379.3	378.6	378.1	377.8	377.8	377.8	377.8	377.8
15°	384.4	382.7	381.5	381.5	381.7	382.2	382.2	382.7
17.5°	390.8	388.9	387.6	386.7	387.1	387.9	388.4	388.9
20°	398.4	397.5	395.7	394.8	394.8	395.7	396.2	396.5
22.5°	409.0	408.3	407.5	406.3	406.3	406.8	407.8	407.8
25°	424.7	424.2	423.8	422.8	422.5	422.5	423.0	423.5
27.5°	444.4	444.6	444.1	443.9	443.2	442.9	443.6	443.4
30°	470.7	471.9	473.1	472.1	470.9	470.2	469.4	468.5
32.5°	506.3	504.8	503.8	502.1	499.9	497.9	496.5	494.7
35°	539.9	537.5	536.5	538.0	537.7	536.5	534.8	533.3
37.5°	581.2	580.7	581.2	583.9	583.4	584.7	581.2	581.0
40°	633.3	633.8	637.2	640.4	642.1	643.9	641.9	639.9
42.5°	693.7	693.5	694.7	699.1	702.1	704.0	699.9	699.4
45°	757.6	755.9	756.9	760.5	763.5	765.7	761.0	761.0
47.5°	827.9	824.9	821.7	825.9	827.6	829.1	825.4	824.2
50°	906.2	900.1	893.2	894.9	894.9	894.4	889.8	889.5
52.5°	996.1	984.8	972.3	967.6	964.9	962.0	953.9	949.9
55°	1099.5	1082.6	1062.9	1050.9	1044.5	1036.4	1022.9	1019.2
57.5°	1220.4	1193.9	1160.0	1145.2	1131.0	1117.7	1102.7	1098.6
60°	1363.6	1324.6	1279.6	1252.3	1236.9	1224.1	1208.6	1207.9
62.5°	1523.3	1461.6	1410.8	1386.2	1374.9	1363.6	1348.9	1350.8
65°	1685.7	1621.3	1573.7	1553.8	1543.2	1533.9	1519.1	1521.3
67.5°	1845.8	1786.6	1734.3	1713.9	1702.1	1690.3	1677.1	1679.3
70°	1960.8	1887.4	1828.4	1783.2	1754.9	1723.0	1702.4	1697.2
72.5°	1927.9	1814.6	1721.0	1631.4	1578.8	1536.1	1507.1	1494.6
75°	1668.5	1513.7	1393.3	1283.3	1221.4	1171.0	1134.4	1111.6
77.5°	1239.1	1065.2	922.9	796.2	695.9	628.6	581.2	550.5
80°	678.2	515.9	377.1	265.1	194.8	161.9	143.0	133.9
82.5°	211.3	136.3	100.5	86.7	80.6	77.1	71.5	62.4
85°	67.3	59.0	54.8	52.3	49.9	43.5	30.0	27.3
87.5°	26.0	26.8	26.5	25.1	25.5	18.4	14.7	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)