

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: P299335

Luminaire Tested: **GLNA-AF-01-LED-E1-5NQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299335
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: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-5NQ-7027
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5566.4 lumens
Efficiency: N/A
Efficacy: 94.3 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

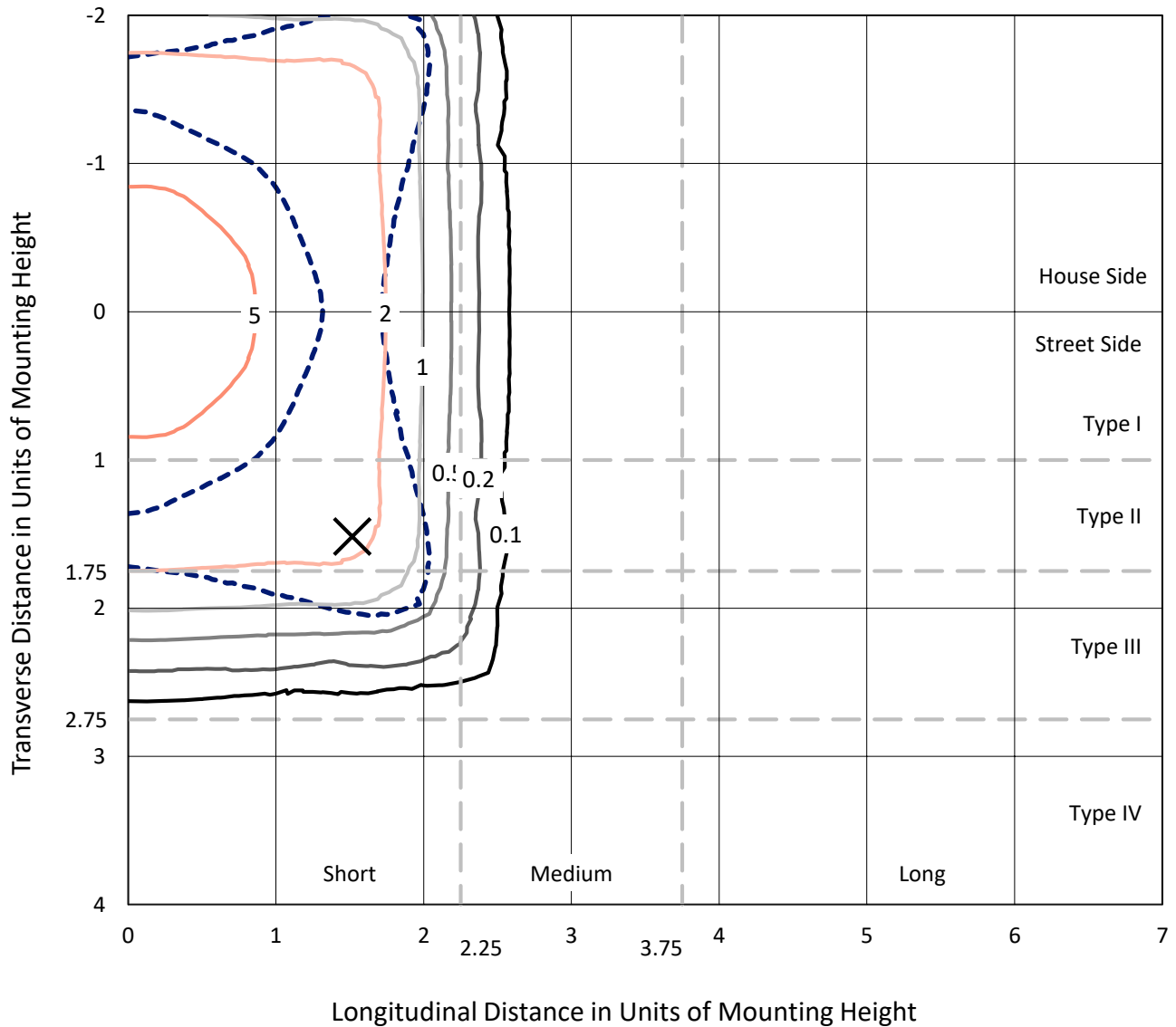
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

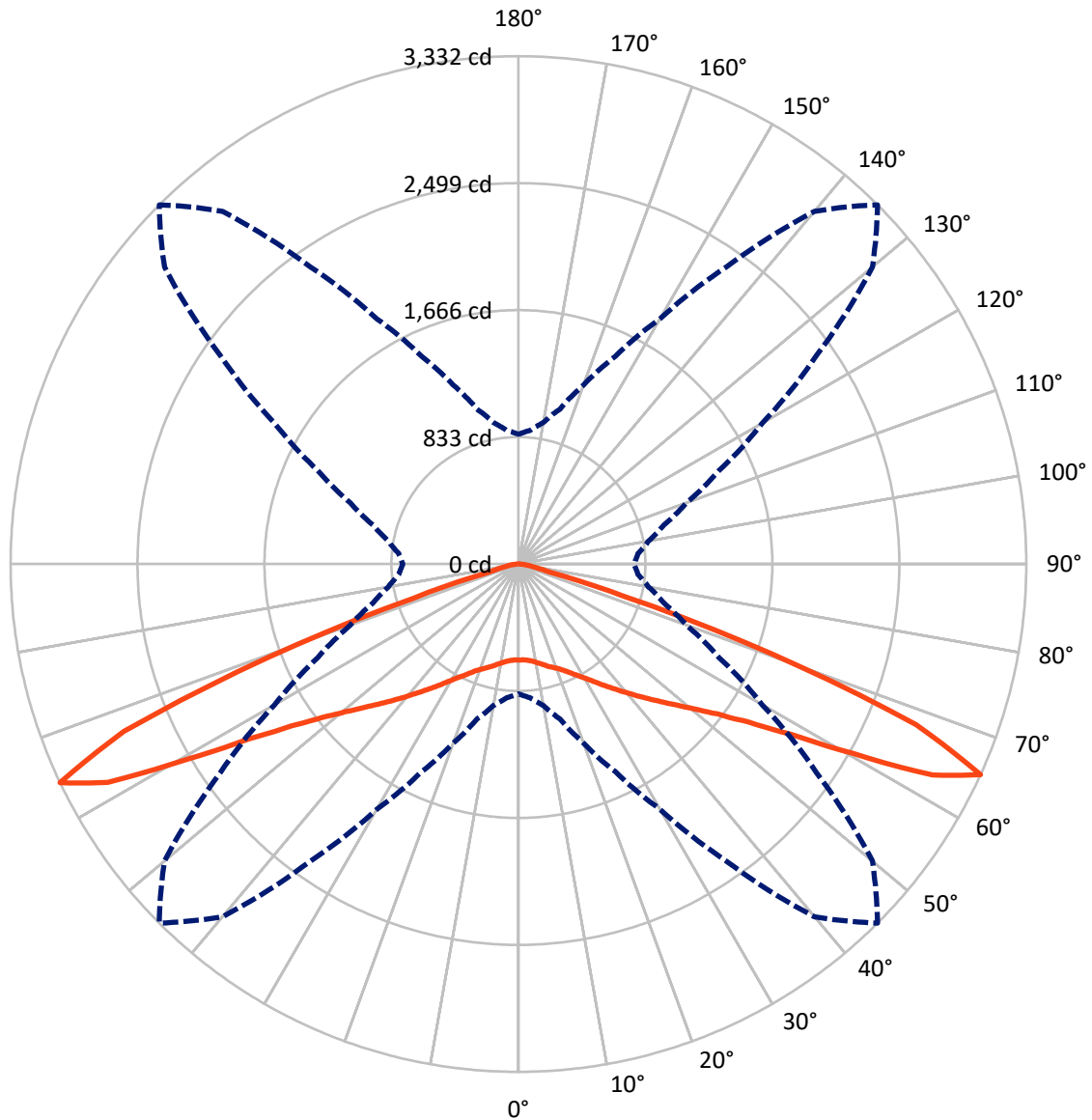
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 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	2783.2	0.0	2783.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2783.2	0.0	2783.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	5566.4	0.0	5566.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	1.1
10°-20°	196.9	3.5
20°-30°	368.1	6.6
30°-40°	622.6	11.2
40°-50°	1018.1	18.3
50°-60°	1618.9	29.1
60°-70°	1463.4	26.3
70°-80°	185.2	3.3
80°-90°	31.8	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°	5566.4	100.0
0°-180°	5566.4	100.0

Coefficient of Utilization



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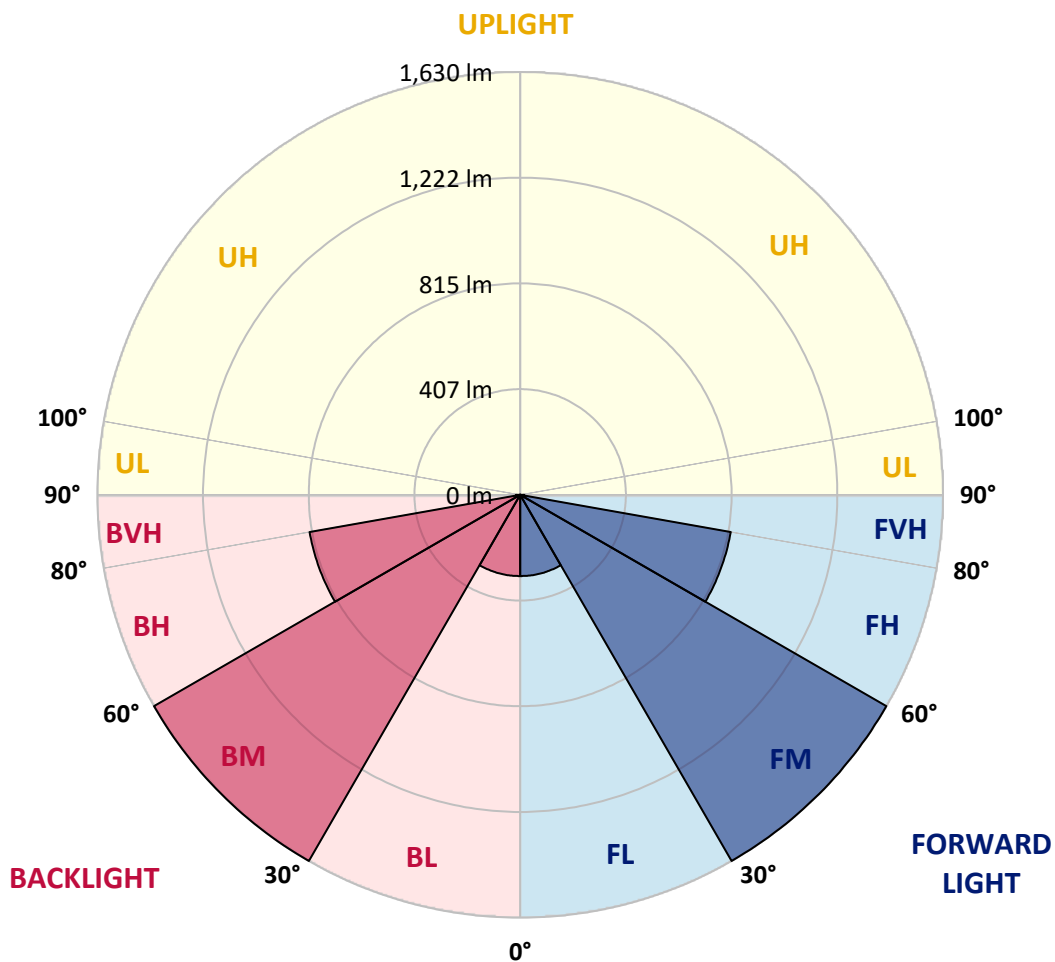
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	313.2	5.6			
FM	(30°-60°)	1629.8	29.3			
FH	(60°-80°)	824.3	14.8			G1/1800
FVH	(80°-90°)	15.9	0.3			G1/100
BL	(0°-30°)	313.2	5.6	B1/500		
BM	(30°-60°)	1629.8	29.3	B2/2500		
BH	(60°-80°)	824.3	14.8	B2/1000		G1/1800
BVH	(80°-90°)	15.9	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°	629.8	629.8	629.8	629.8	629.8	629.8	629.8	629.8	629.8	629.8	629.8
2.5°	630.4	630.9	631.4	630.9	631.4	630.6	630.1	630.9	630.1	629.3	629.8
5°	635.8	636.1	636.1	635.3	636.1	635.6	634.8	635.8	635.1	634.3	634.8
7.5°	645.0	646.0	645.2	644.4	645.0	644.4	643.9	644.2	643.9	643.1	643.4
10°	657.2	658.0	657.5	657.2	657.7	657.5	657.0	656.7	657.0	656.2	656.2
12.5°	672.1	671.8	671.6	671.8	672.6	672.6	672.3	672.6	673.1	673.4	672.9
15°	686.7	687.2	687.2	687.2	688.8	690.1	690.8	691.4	692.4	692.7	691.6
17.5°	704.9	704.9	704.7	704.9	706.5	708.6	709.4	710.4	711.4	712.2	710.9
20°	725.3	725.8	725.8	726.3	728.4	730.7	730.7	731.2	730.7	731.2	730.5
22.5°	750.0	751.6	751.6	751.8	753.9	756.8	756.0	756.8	755.5	756.5	755.5
25°	782.3	784.7	784.2	784.2	785.7	787.6	787.8	789.4	789.1	790.4	789.6
27.5°	818.8	822.5	823.5	823.3	824.3	826.1	826.7	828.5	827.4	828.5	828.0
30°	862.6	864.2	866.3	867.1	868.4	870.2	870.2	870.5	869.2	870.7	871.5
32.5°	908.0	910.9	913.0	917.6	920.0	921.3	921.0	921.6	920.3	922.3	923.9
35°	968.0	970.0	973.4	977.1	980.2	980.0	979.2	979.4	979.4	981.3	982.8
37.5°	1040.2	1040.7	1045.1	1050.3	1051.9	1050.3	1045.6	1044.6	1042.3	1044.6	1047.2
40°	1116.6	1118.4	1127.2	1130.6	1131.4	1128.5	1121.8	1117.9	1112.6	1115.5	1119.2
42.5°	1196.6	1200.2	1208.3	1214.3	1216.9	1215.1	1205.7	1199.7	1192.9	1194.5	1198.2
45°	1285.2	1289.7	1301.1	1306.9	1311.8	1308.9	1299.8	1290.7	1280.0	1280.8	1286.5
47.5°	1384.3	1388.7	1403.6	1413.2	1415.8	1415.3	1405.1	1392.6	1378.0	1377.5	1382.5
50°	1495.3	1499.8	1518.3	1533.1	1540.7	1539.9	1527.9	1510.2	1492.5	1492.7	1499.0
52.5°	1603.8	1609.3	1628.6	1654.1	1669.0	1679.7	1672.4	1655.7	1634.0	1634.6	1640.3
55°	1705.5	1714.6	1736.8	1771.4	1799.1	1829.0	1837.6	1837.1	1824.1	1827.7	1833.5
57.5°	1754.7	1768.3	1802.4	1857.2	1913.5	1974.5	2026.1	2064.7	2081.1	2105.9	2100.2
60°	1661.4	1683.0	1733.4	1813.9	1925.2	2052.5	2188.8	2322.0	2435.7	2521.4	2472.2
62.5°	1360.3	1388.5	1449.5	1552.7	1721.1	1924.7	2185.7	2500.6	2843.7	3050.7	2902.8
65°	851.2	880.4	942.4	1052.9	1250.0	1503.2	1857.2	2379.1	3020.2	3332.2	3031.4
67.5°	331.9	347.8	381.4	452.0	600.1	825.4	1180.7	1773.0	2539.7	2813.2	2492.5
70°	166.3	167.9	174.1	187.2	219.0	284.4	432.8	822.0	1456.5	1759.2	1404.1
72.5°	120.2	120.4	123.6	129.3	139.5	154.1	182.2	251.6	473.7	724.0	444.0
75°	92.0	93.1	94.9	98.0	103.5	110.8	121.0	144.9	179.6	208.3	175.2
77.5°	70.9	73.0	74.3	77.2	80.6	85.5	88.4	97.5	113.4	119.4	117.6
80°	54.0	55.8	58.7	61.0	63.3	65.7	64.7	68.8	77.2	82.1	79.5
82.5°	34.4	36.5	44.8	46.9	48.0	49.5	47.7	48.0	51.6	54.7	51.6
85°	22.2	23.5	28.4	31.0	31.3	32.3	31.5	29.7	29.7	27.1	30.5
87.5°	10.2	10.4	12.8	15.1	15.6	14.1	13.8	13.3	10.7	10.2	10.9
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°	629.8	629.8	629.8	629.8	629.8	629.8	629.8	629.8
2.5°	629.6	630.1	630.4	631.1	631.4	631.4	631.7	632.2
5°	634.5	635.3	635.6	636.6	636.9	636.6	637.1	637.4
7.5°	643.4	644.7	645.2	646.3	645.5	646.5	646.8	646.8
10°	656.4	657.7	658.0	659.0	658.5	659.0	659.0	658.5
12.5°	673.6	673.9	673.1	673.9	672.9	673.4	672.6	672.1
15°	692.7	691.9	690.1	690.1	688.5	688.8	688.5	688.2
17.5°	711.2	709.6	708.3	707.8	706.5	706.2	705.4	705.4
20°	731.5	730.7	729.9	728.9	727.6	726.3	726.0	726.6
22.5°	756.0	755.8	755.8	755.2	753.4	752.1	751.3	751.3
25°	788.9	786.5	786.5	786.3	785.5	784.7	783.1	783.9
27.5°	825.9	824.6	825.6	825.4	824.6	824.6	823.5	823.5
30°	871.5	871.0	872.5	871.2	868.6	868.4	867.3	866.0
32.5°	924.2	923.6	926.0	924.4	920.3	917.9	915.8	914.8
35°	982.8	983.1	985.9	984.9	980.2	978.6	975.0	974.5
37.5°	1047.0	1051.1	1056.1	1057.1	1053.2	1052.2	1048.3	1046.2
40°	1122.3	1127.8	1135.3	1137.2	1133.0	1132.2	1126.7	1123.9
42.5°	1202.6	1212.0	1221.4	1222.9	1218.7	1214.6	1209.4	1207.3
45°	1292.3	1303.5	1315.7	1318.9	1312.6	1307.6	1300.9	1300.9
47.5°	1392.9	1407.0	1420.8	1429.4	1423.7	1418.4	1410.4	1405.1
50°	1511.8	1531.1	1549.1	1557.9	1548.8	1538.9	1524.8	1520.1
52.5°	1660.9	1681.7	1697.4	1692.7	1678.6	1664.8	1649.4	1643.2
55°	1851.2	1858.2	1858.2	1840.5	1812.4	1789.2	1764.9	1756.8
57.5°	2089.2	2062.1	2020.4	1967.5	1901.0	1843.1	1804.0	1785.5
60°	2368.9	2238.6	2091.3	1946.6	1827.7	1729.7	1671.6	1645.0
62.5°	2555.3	2214.3	1919.2	1687.0	1515.9	1397.8	1317.6	1286.3
65°	2388.2	1846.8	1451.6	1173.6	987.3	867.1	787.6	758.4
67.5°	1749.3	1157.2	773.0	554.0	405.9	323.8	291.2	277.6
70°	785.2	407.5	249.7	195.0	168.1	154.3	148.3	146.2
72.5°	236.7	171.3	144.4	130.3	119.7	112.9	107.9	107.4
75°	142.9	118.9	105.6	97.2	90.5	85.0	82.4	81.6
77.5°	99.8	87.3	81.1	75.1	69.9	65.7	63.3	61.5
80°	70.1	64.1	61.3	57.9	54.5	50.6	47.2	45.6
82.5°	46.9	45.6	45.6	43.5	40.7	37.0	30.2	28.7
85°	30.2	30.0	30.5	29.7	27.6	23.7	19.6	18.5
87.5°	14.1	14.3	15.9	15.6	15.1	12.5	9.9	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)