

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: P453119

Luminaire Tested: **GALN-SA4A-827-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13948 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): 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: 24 FT

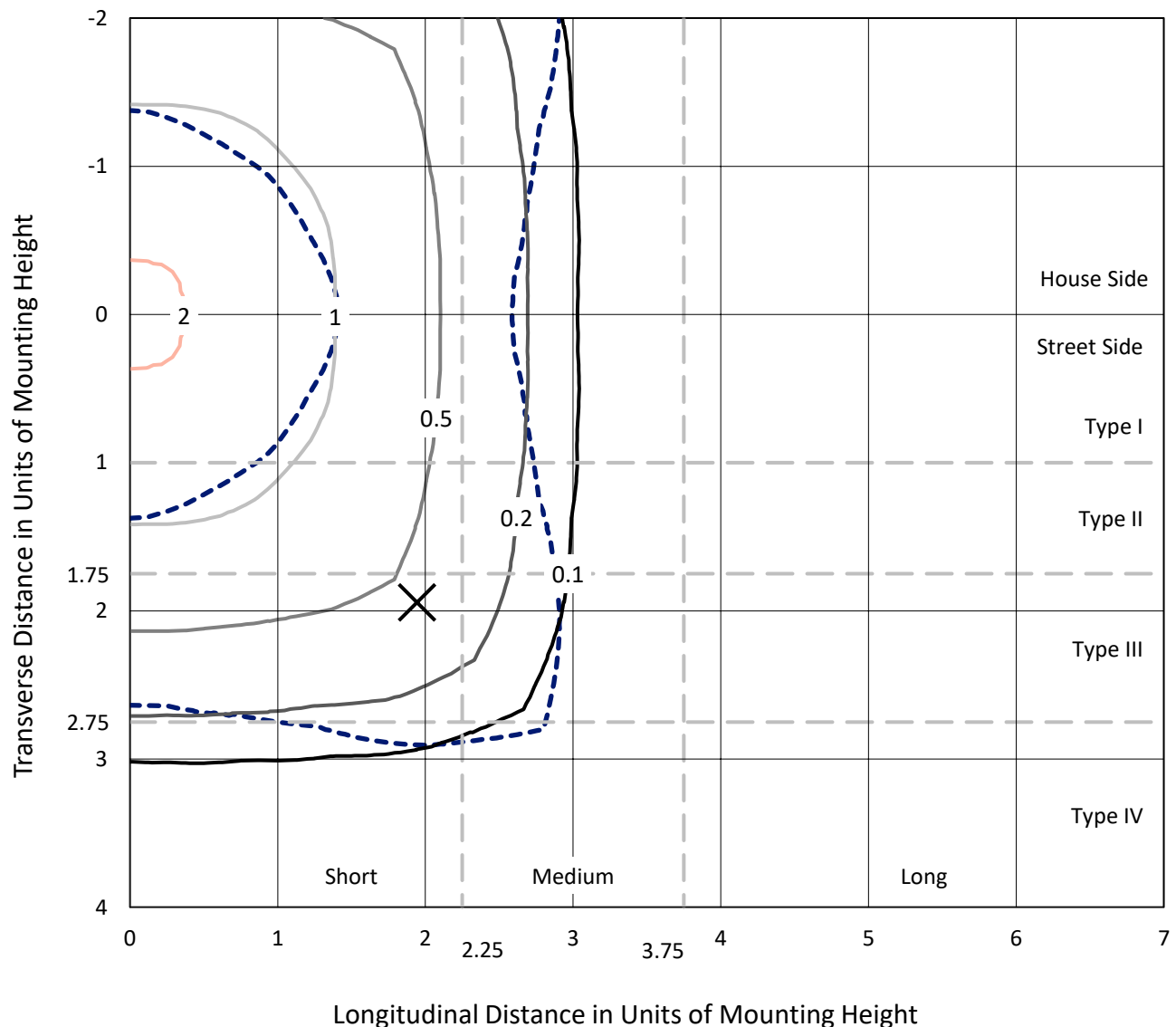


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

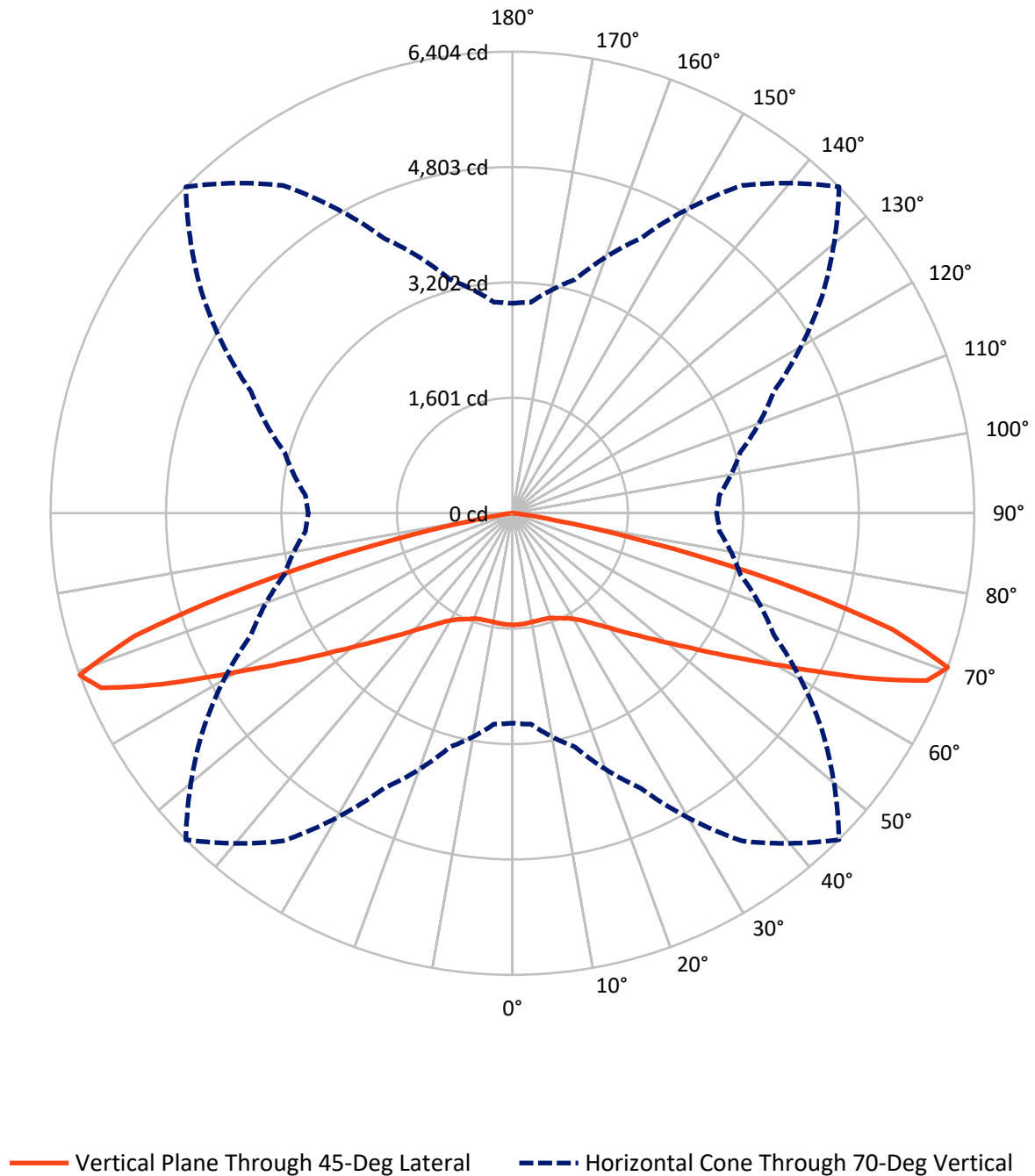


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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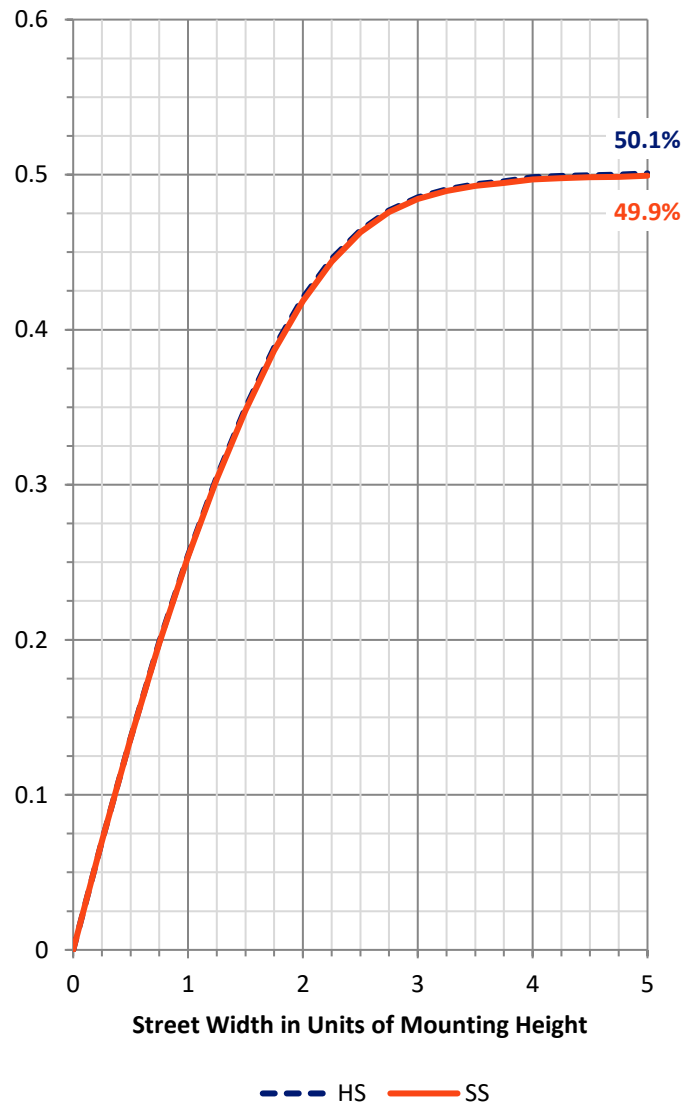
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6974.0	0.0	6974.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6974.0	0.0	6974.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13948.0	0.0	13948.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	1.1
10°-20°	431.0	3.1
20°-30°	737.1	5.3
30°-40°	1170.0	8.4
40°-50°	1887.5	13.5
50°-60°	3071.0	22.0
60°-70°	4451.9	31.9
70°-80°	1974.7	14.2
80°-90°	77.9	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°	13948.0	100.0
0°-180°	13948.0	100.0

Coefficient of Utilization



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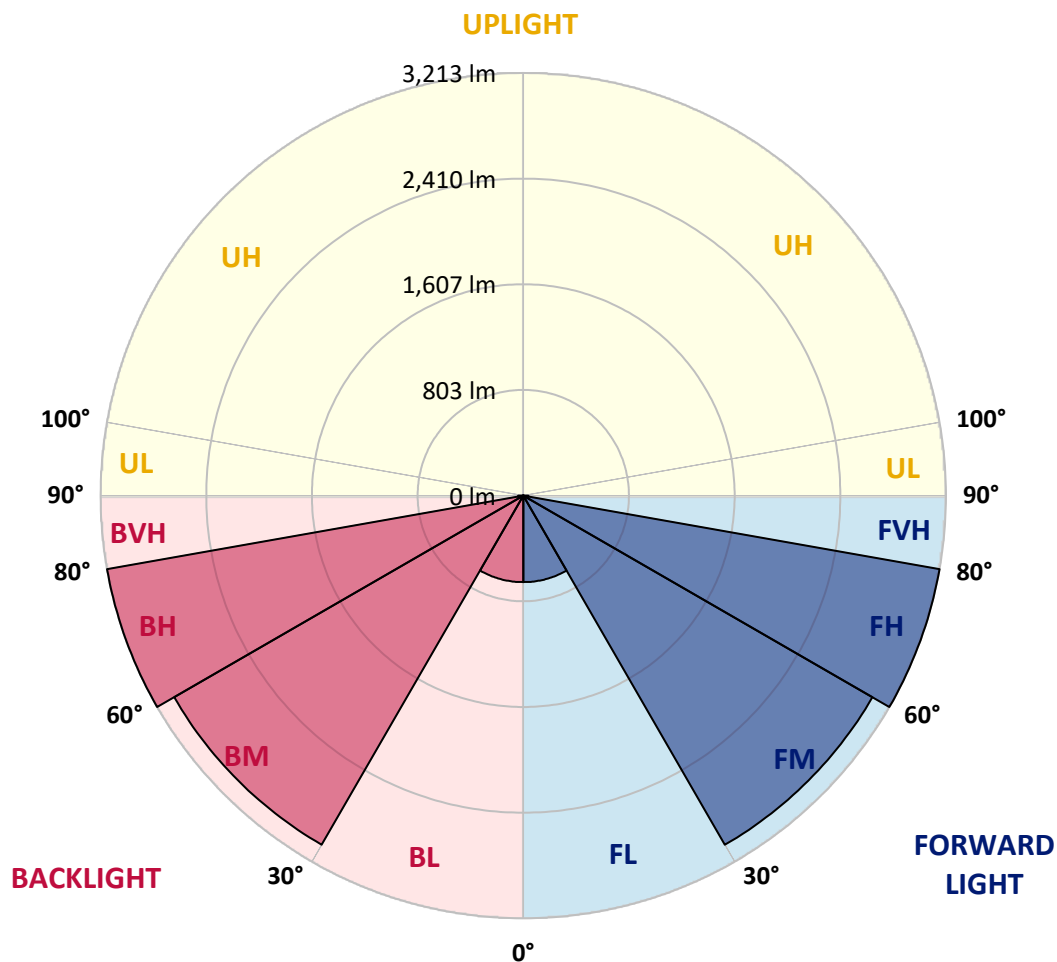
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	657.5	4.7			
FM	(30°-60°)	3064.3	22.0			
FH	(60°-80°)	3213.3	23.0			G2/5000
FVH	(80°-90°)	38.9	0.3			G1/100
BL	(0°-30°)	657.5	4.7	B2/1000		
BM	(30°-60°)	3064.3	22.0	B3/5000		
BH	(60°-80°)	3213.3	23.0	B4/5000		G2/5000
BVH	(80°-90°)	38.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1548.9	1548.9	1548.9	1548.9	1548.9	1548.9	1548.9	1548.9	1548.9	1548.9	1548.9
2.5°	1548.9	1550.3	1548.1	1546.7	1545.9	1545.9	1545.2	1545.9	1550.3	1551.1	1548.9
5°	1544.4	1545.9	1545.2	1543.7	1543.0	1543.0	1542.2	1541.5	1545.2	1546.7	1545.9
7.5°	1538.6	1539.3	1538.6	1537.8	1538.6	1537.8	1535.6	1534.2	1537.1	1537.1	1536.4
10°	1528.3	1529.7	1529.0	1529.7	1531.2	1531.2	1528.3	1525.3	1526.1	1524.6	1524.6
12.5°	1515.8	1518.0	1518.7	1521.7	1525.3	1529.7	1523.1	1516.5	1515.0	1514.3	1513.6
15°	1507.7	1509.9	1512.8	1515.8	1522.4	1532.0	1522.4	1512.1	1509.2	1506.2	1504.8
17.5°	1505.5	1508.4	1512.8	1517.3	1526.1	1535.6	1527.5	1517.3	1509.9	1505.5	1504.0
20°	1511.4	1513.6	1520.2	1528.3	1540.8	1550.3	1542.2	1531.2	1520.2	1513.6	1511.4
22.5°	1523.1	1526.8	1534.9	1549.6	1567.2	1581.2	1570.2	1551.8	1534.2	1525.3	1522.4
25°	1548.9	1551.8	1561.4	1581.2	1601.8	1615.0	1603.3	1581.9	1557.7	1545.9	1542.2
27.5°	1587.8	1592.2	1602.5	1626.0	1643.0	1650.3	1642.2	1627.5	1609.9	1597.4	1594.4
30°	1643.0	1648.1	1663.5	1688.5	1699.6	1704.0	1700.3	1690.7	1678.2	1665.0	1662.1
32.5°	1717.2	1720.1	1737.8	1761.3	1771.6	1773.1	1768.7	1764.2	1743.7	1721.6	1720.1
35°	1800.3	1805.4	1826.7	1854.7	1864.2	1865.0	1856.1	1849.5	1825.3	1807.6	1807.6
37.5°	1910.5	1912.7	1933.3	1964.9	1975.2	1972.3	1967.9	1962.0	1936.3	1913.5	1914.2
40°	2039.9	2044.3	2062.0	2098.7	2098.7	2095.0	2098.0	2093.6	2067.8	2045.8	2046.5
42.5°	2193.5	2195.7	2217.1	2256.0	2253.1	2245.7	2248.7	2242.8	2226.6	2201.6	2192.8
45°	2357.5	2366.3	2403.0	2440.5	2434.7	2411.1	2422.9	2421.4	2406.7	2369.2	2371.4
47.5°	2555.2	2569.9	2605.2	2650.0	2643.4	2606.7	2619.9	2628.7	2608.1	2567.0	2559.6
50°	2778.0	2787.5	2839.7	2881.6	2875.7	2836.8	2866.9	2868.4	2816.9	2758.8	2758.8
52.5°	3015.4	3024.9	3095.5	3160.9	3164.6	3108.0	3132.3	3130.8	3047.0	2970.5	2955.8
55°	3281.5	3285.9	3377.1	3473.4	3493.9	3438.8	3441.7	3412.3	3303.5	3214.6	3206.5
57.5°	3556.4	3572.6	3673.3	3798.3	3859.3	3825.5	3810.0	3731.4	3626.3	3524.1	3518.9
60°	3860.8	3861.5	3992.3	4140.1	4263.6	4286.4	4223.2	4118.0	3982.0	3846.8	3840.9
62.5°	4071.7	4103.3	4268.7	4518.7	4739.9	4867.8	4701.0	4480.4	4212.9	3994.5	3972.5
65°	4115.1	4136.4	4388.6	4812.0	5264.1	5539.7	5153.8	4684.8	4228.3	3937.2	3922.5
67.5°	3764.5	3787.2	4126.9	4776.7	5631.6	6196.9	5447.8	4586.3	3966.6	3606.4	3577.7
70°	2911.7	2937.5	3357.2	4204.8	5550.0	6403.5	5238.3	4000.4	3271.2	2882.3	2830.1
72.5°	1548.1	1643.0	2001.7	2886.0	4504.7	5513.3	4295.2	2919.1	2109.7	1724.5	1655.4
75°	565.3	577.1	777.0	1279.8	2620.6	3780.6	2721.3	1392.3	800.5	618.2	586.6
77.5°	233.8	233.0	255.8	386.7	952.0	1936.3	1062.2	408.7	255.1	236.0	233.0
80°	138.2	138.2	152.2	161.0	250.7	584.4	280.1	182.3	152.9	139.7	141.9
82.5°	61.7	65.4	96.3	101.4	121.3	160.3	135.3	116.1	100.0	69.1	62.5
85°	33.8	29.4	50.7	52.9	58.1	59.5	64.0	63.2	58.1	33.8	34.5
87.5°	6.6	8.1	14.7	11.0	12.5	11.0	14.7	20.6	21.3	11.8	9.6
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)