

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: P526760

Luminaire Tested: **GALN-SA1D-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5753 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

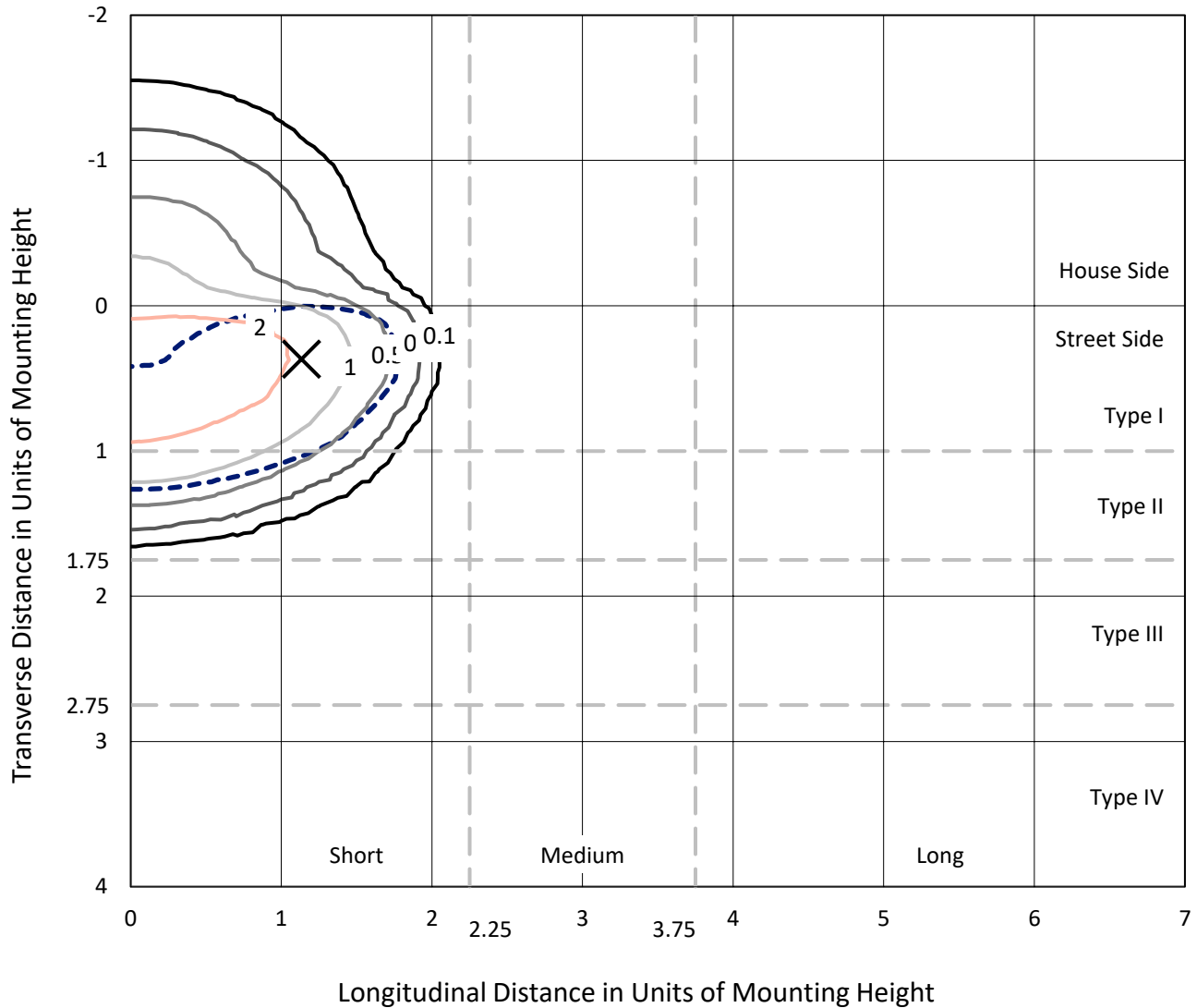
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

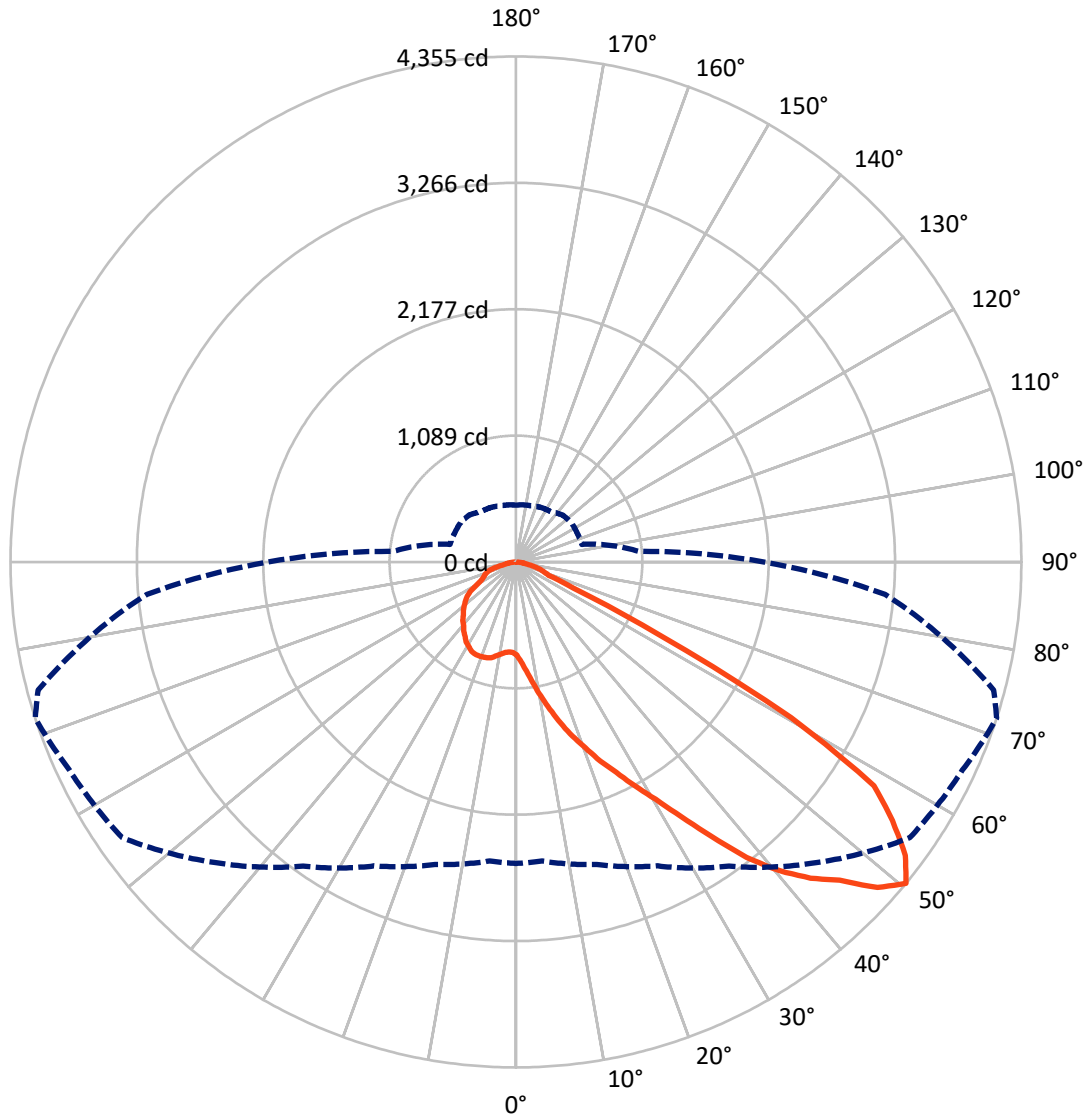
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1318.1	0.0	1318.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4435.0	0.0	4435.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	5753.0	0.0	5753.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	1.6
10°-20°	352.2	6.1
20°-30°	682.8	11.9
30°-40°	1131.2	19.7
40°-50°	1582.8	27.5
50°-60°	1335.3	23.2
60°-70°	407.0	7.1
70°-80°	142.8	2.5
80°-90°	24.8	0.4
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°	5753.0	100.0
0°-180°	5753.0	100.0

Coefficient of Utilization

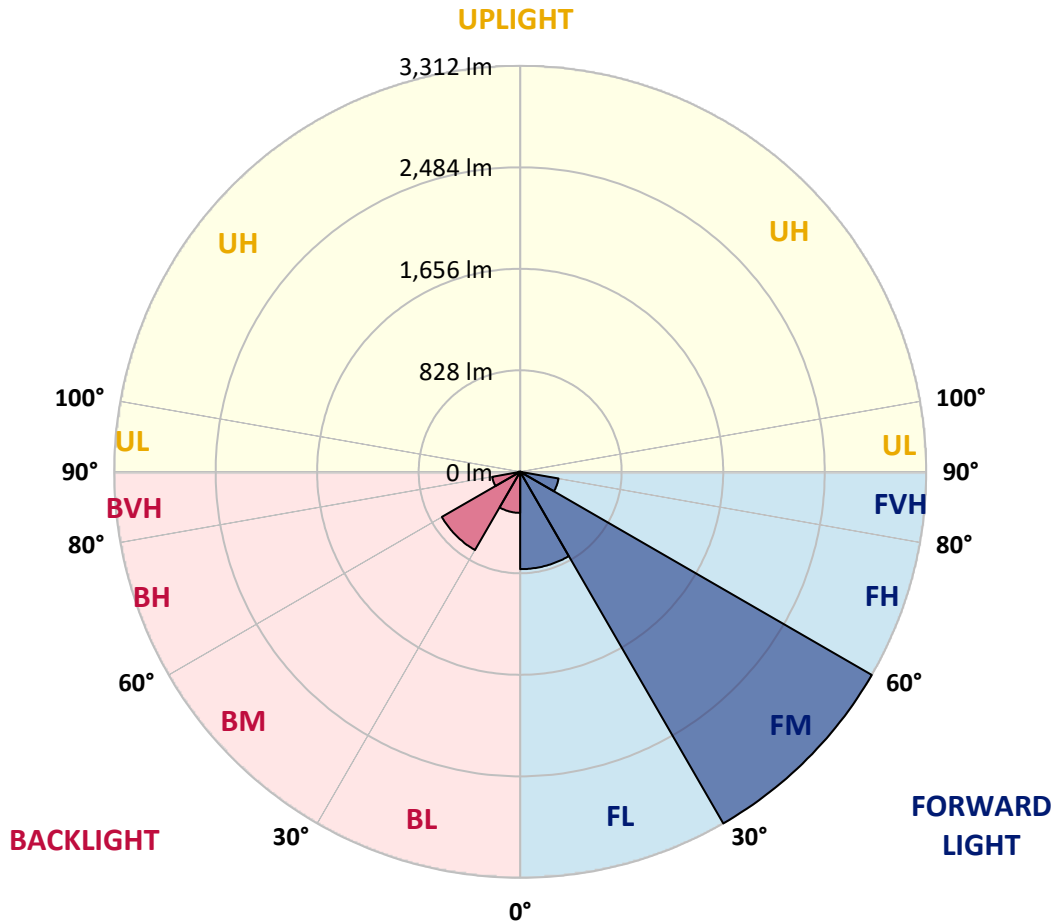


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	794.1	13.8			
FM (30°-60°)	3312.2	57.6			
FH (60°-80°)	317.6	5.5			G0/660
FVH (80°-90°)	11.1	0.2			G1/100
BL (0°-30°)	335.1	5.8	B1/500		
BM (30°-60°)	737.1	12.8	B1/1000		
BH (60°-80°)	232.2	4.0	B1/500		G1/500
BVH (80°-90°)	13.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	800.9	800.9	800.9	800.9	800.9	800.9	800.9	800.9	800.9	800.9	800.9
2.5°	1030.1	1023.7	1004.5	998.1	975.3	934.0	919.8	877.7	860.0	843.6	824.4
5°	1302.7	1272.8	1270.7	1234.4	1181.7	1151.1	1060.0	998.8	942.5	914.1	861.4
7.5°	1476.4	1477.2	1477.2	1447.3	1405.3	1327.7	1245.8	1135.5	1050.7	1008.7	919.0
10°	1641.6	1627.4	1619.5	1616.7	1588.2	1512.7	1425.2	1288.5	1172.5	1123.3	962.5
12.5°	1758.3	1746.2	1764.0	1754.8	1734.1	1685.0	1602.4	1446.5	1301.3	1235.1	1032.2
15°	1813.9	1822.4	1836.7	1862.3	1853.0	1834.5	1743.4	1608.9	1440.1	1365.4	1094.2
17.5°	1899.3	1875.8	1892.9	1924.9	1950.6	1942.0	1890.0	1726.3	1577.5	1485.7	1177.5
20°	1959.1	1945.6	1954.1	1991.1	2010.4	2058.8	2031.7	1880.1	1709.2	1612.4	1275.7
22.5°	2129.9	2110.0	2082.3	2087.9	2095.1	2129.2	2135.6	2048.8	1862.3	1759.8	1368.9
25°	2340.7	2322.2	2289.4	2256.0	2235.3	2228.9	2251.0	2181.2	2008.9	1902.9	1469.3
27.5°	2572.7	2541.4	2520.8	2451.7	2396.2	2387.7	2377.0	2339.2	2182.6	2068.0	1582.5
30°	2798.4	2773.5	2745.7	2635.4	2577.7	2568.5	2515.8	2526.5	2371.3	2243.9	1710.7
32.5°	2969.3	2971.4	2908.0	2824.7	2770.6	2721.5	2702.3	2732.9	2613.3	2510.8	1853.7
35°	3107.4	3113.8	3053.3	2977.8	2919.4	2953.6	2945.1	2959.3	2902.3	2777.0	2020.3
37.5°	3241.9	3209.9	3145.1	3108.8	3078.2	3134.4	3207.0	3219.1	3229.8	3082.4	2214.0
40°	3264.0	3266.8	3229.1	3254.7	3216.3	3301.0	3469.7	3454.0	3497.5	3368.6	2424.0
42.5°	3232.7	3239.1	3254.0	3290.3	3382.9	3484.7	3735.2	3671.2	3723.9	3609.2	2628.3
45°	3181.4	3155.1	3173.6	3311.7	3471.8	3698.2	3978.0	3928.2	3911.1	3815.0	2871.7
47.5°	2936.5	2963.6	3021.2	3191.4	3432.0	3735.2	4150.3	4138.9	4190.1	4122.5	3093.1
50°	2596.9	2586.3	2697.3	2888.8	3199.2	3662.6	4141.0	4244.2	4354.6	4260.6	3192.1
52.5°	1944.9	2001.8	2097.2	2335.0	2777.8	3266.8	3938.8	4111.1	4200.8	4180.9	3112.3
55°	1229.4	1246.5	1304.2	1586.8	1985.4	2621.9	3376.5	3775.8	3936.0	4010.7	3039.0
57.5°	597.3	565.2	635.7	862.8	1146.8	1763.3	2604.1	3288.9	3637.0	3772.3	2879.6
60°	311.8	323.9	351.7	432.8	593.0	915.5	1623.1	2191.9	2723.7	2931.5	2182.6
62.5°	258.4	262.7	281.2	321.8	394.4	526.8	828.6	1068.5	1388.9	1576.1	1241.5
65°	219.3	221.4	241.3	268.4	314.7	370.9	426.4	446.3	540.3	554.6	441.4
67.5°	183.0	185.1	206.4	232.1	262.0	276.9	291.2	289.7	300.4	296.1	295.4
70°	141.0	143.1	165.2	192.2	207.2	198.6	242.8	252.7	257.0	260.5	266.2
72.5°	101.8	106.1	123.2	142.4	134.5	154.5	200.0	215.0	220.7	222.8	229.9
75°	74.0	75.5	79.7	74.0	85.4	107.5	141.0	159.5	166.6	168.7	179.4
77.5°	32.7	33.5	34.2	42.7	54.8	66.9	84.0	99.0	108.9	111.8	114.6
80°	17.1	17.8	22.1	29.2	39.2	49.1	61.2	69.8	76.2	76.9	79.7
82.5°	10.7	11.4	15.7	20.6	27.8	36.3	44.8	52.0	57.0	57.7	58.4
85°	5.0	6.4	9.3	12.8	18.5	23.5	24.2	20.6	22.1	22.8	21.4
87.5°	1.4	2.1	2.8	2.1	2.8	2.8	3.6	4.3	4.3	4.3	5.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	800.9	800.9	800.9	800.9	800.9	800.9	800.9	800.9	800.9	800.9	800.9
2.5°	813.7	807.3	782.4	773.1	748.9	753.2	740.4	739.6	736.8	736.1	735.4
5°	833.6	813.7	783.8	761.0	747.5	746.1	736.8	736.8	739.6	741.8	736.8
7.5°	866.4	843.6	793.0	771.7	759.6	757.4	751.0	746.1	752.5	750.3	744.6
10°	904.1	864.2	810.8	792.3	772.4	767.4	767.4	769.5	758.9	762.4	756.7
12.5°	946.1	892.7	833.6	812.3	788.8	785.9	784.5	768.8	774.5	771.7	757.4
15°	999.5	925.4	862.8	826.5	806.6	793.7	775.2	772.4	768.8	761.7	755.3
17.5°	1057.1	961.0	876.3	830.8	800.9	791.6	777.4	762.4	751.7	753.2	748.2
20°	1106.3	993.8	881.3	835.0	796.6	778.8	756.7	747.5	736.1	735.4	734.7
22.5°	1164.6	1037.9	888.4	823.6	783.8	765.3	750.3	733.9	726.1	716.2	721.1
25°	1234.4	1055.0	889.9	817.2	774.5	741.8	733.9	716.2	713.3	699.1	701.9
27.5°	1284.9	1064.3	878.5	797.3	753.2	728.3	714.0	701.2	696.2	685.5	682.7
30°	1352.6	1078.5	854.3	772.4	731.8	704.1	695.5	692.7	678.4	667.0	665.6
32.5°	1429.5	1087.8	838.6	746.8	709.7	688.4	692.7	679.1	661.3	651.4	648.5
35°	1490.7	1091.3	799.4	717.6	694.8	681.3	676.3	673.4	647.8	638.6	631.4
37.5°	1583.9	1083.5	766.7	696.9	678.4	673.4	669.2	649.9	620.8	607.2	597.3
40°	1692.9	1081.3	724.7	667.7	662.8	668.5	655.6	625.7	585.2	570.2	563.1
42.5°	1797.5	1096.3	698.4	652.1	645.7	647.8	630.0	585.2	565.2	556.7	545.3
45°	1972.6	1127.6	654.9	627.9	625.0	623.6	602.3	555.3	543.9	533.2	531.1
47.5°	2130.7	1107.0	627.2	603.0	605.8	598.0	552.4	537.5	524.7	514.0	510.4
50°	2139.9	1057.9	588.0	583.7	584.5	570.9	527.5	517.5	501.2	494.0	489.1
52.5°	2091.5	977.4	551.7	553.1	555.3	533.2	496.9	489.8	476.2	466.3	463.4
55°	1955.5	852.1	516.1	521.8	527.5	485.5	474.1	456.3	445.6	431.4	432.1
57.5°	1722.8	686.3	466.3	475.5	487.6	441.4	432.8	410.8	395.1	383.7	382.3
60°	1154.7	488.4	391.5	395.1	422.1	403.6	402.9	380.9	359.5	349.5	343.8
62.5°	681.3	373.0	338.1	334.6	333.9	344.6	362.3	354.5	326.8	307.5	313.2
65°	356.7	322.5	314.7	302.5	295.4	292.6	306.1	309.7	291.2	270.5	269.1
67.5°	299.7	299.7	293.3	289.0	279.1	267.0	258.4	247.0	244.2	238.5	231.4
70°	272.7	279.8	277.6	267.7	259.1	245.6	223.5	205.0	187.2	180.8	185.1
72.5°	237.8	244.9	244.9	239.9	228.5	207.9	186.5	165.2	150.2	138.8	137.4
75°	183.0	186.5	195.1	189.4	174.4	161.6	139.5	117.5	103.2	92.5	90.4
77.5°	116.7	122.4	122.4	121.7	111.1	99.0	84.7	69.1	58.4	50.5	48.4
80°	77.6	81.2	84.0	81.2	74.0	64.8	54.1	43.4	35.6	29.2	27.8
82.5°	57.0	61.2	63.4	60.5	53.4	46.3	38.4	30.6	22.8	17.8	16.4
85°	22.1	22.8	25.6	30.6	29.9	29.2	23.5	17.1	12.8	9.3	8.5
87.5°	5.7	5.0	5.7	5.7	5.0	4.3	4.3	4.3	4.3	2.1	2.8
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)