

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: P526563

Luminaire Tested: **GALN-SA1C-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4944 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

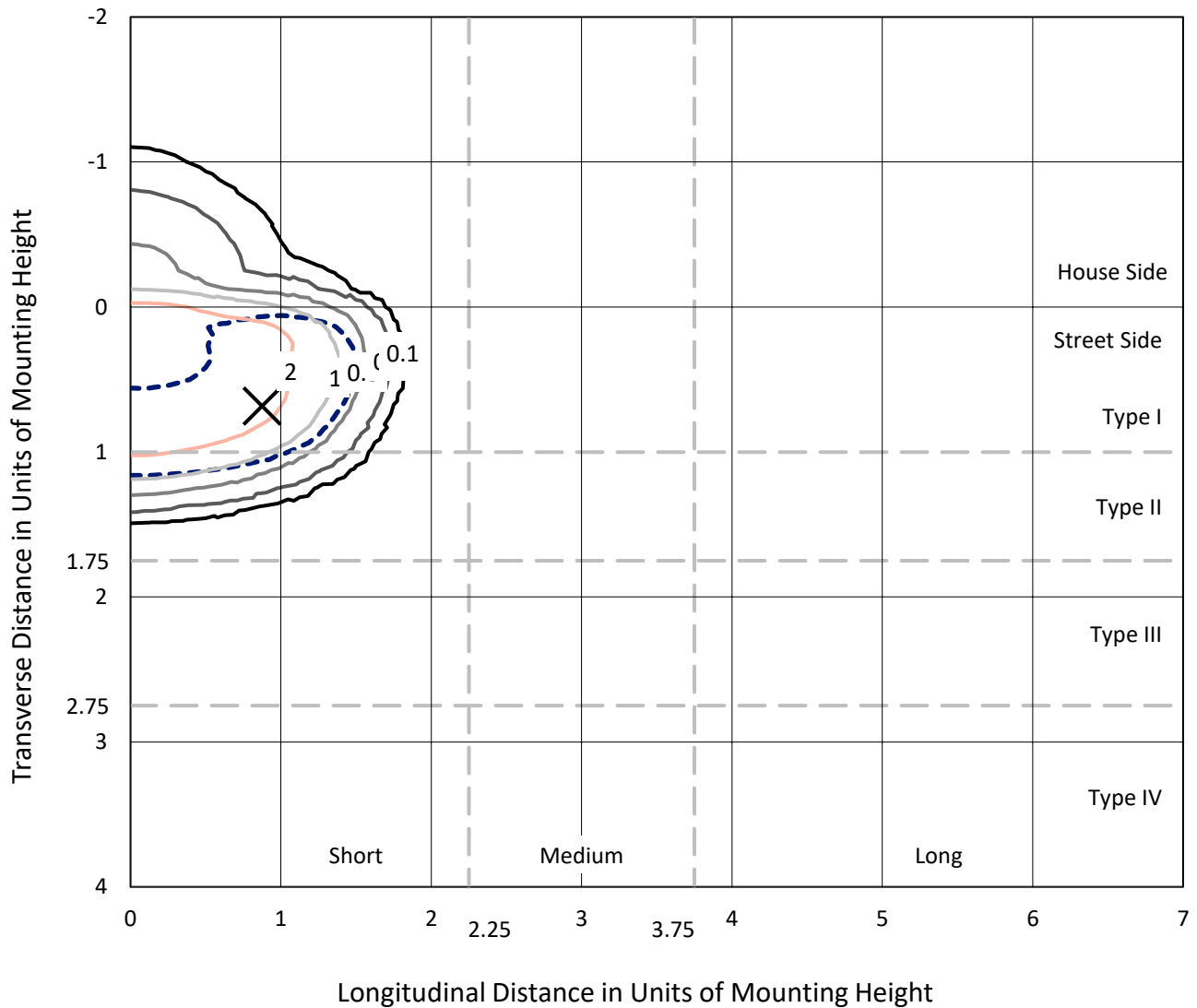
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

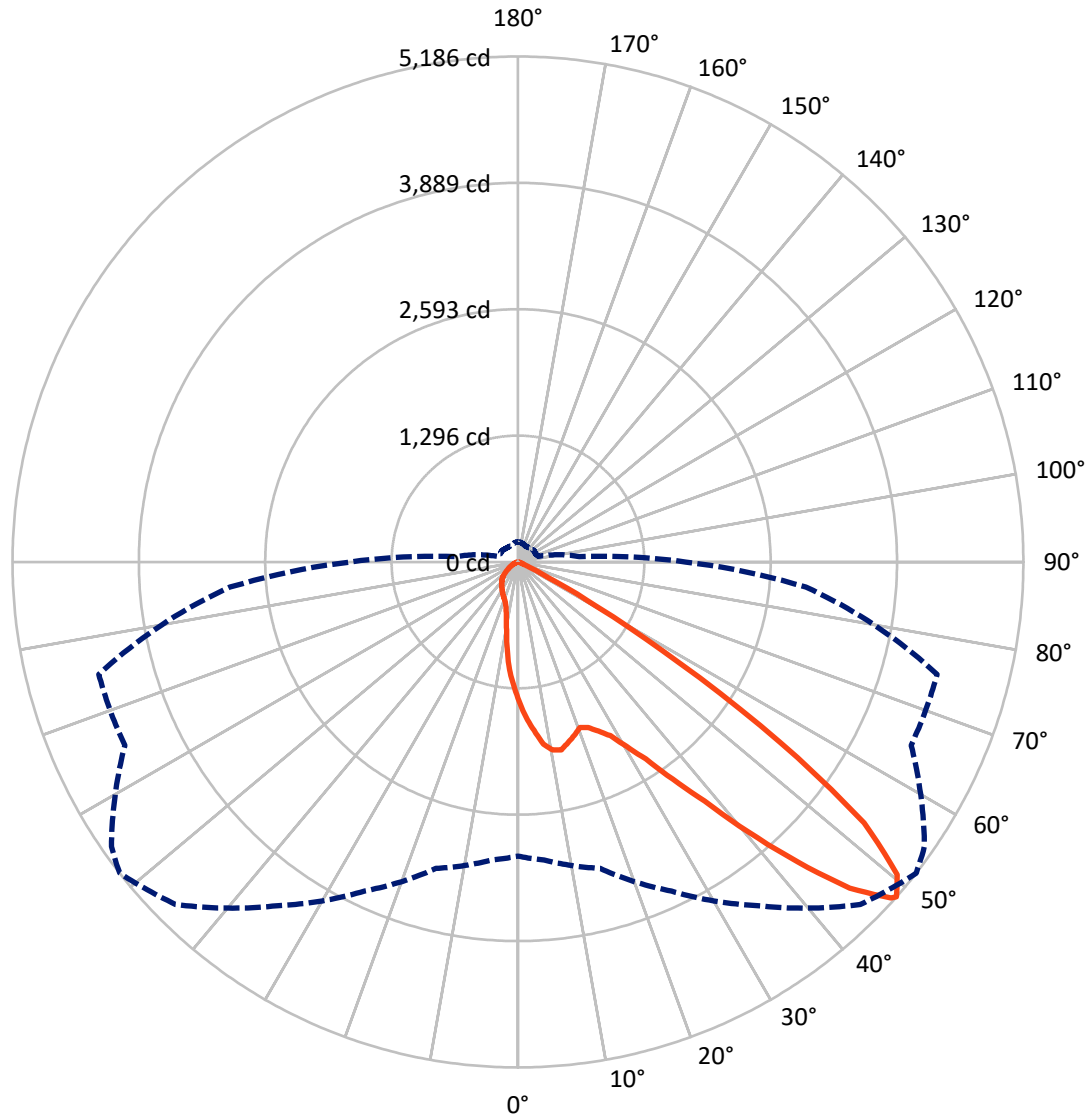
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	602.0	0.0	602.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	4342.0	0.0	4342.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	4944.0	0.0	4944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	2.6
10°-20°	341.5	6.9
20°-30°	583.1	11.8
30°-40°	1073.8	21.7
40°-50°	1667.6	33.7
50°-60°	1003.6	20.3
60°-70°	116.1	2.3
70°-80°	22.5	0.5
80°-90°	5.2	0.1
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°	4944.0	100.0
0°-180°	4944.0	100.0

Coefficient of Utilization



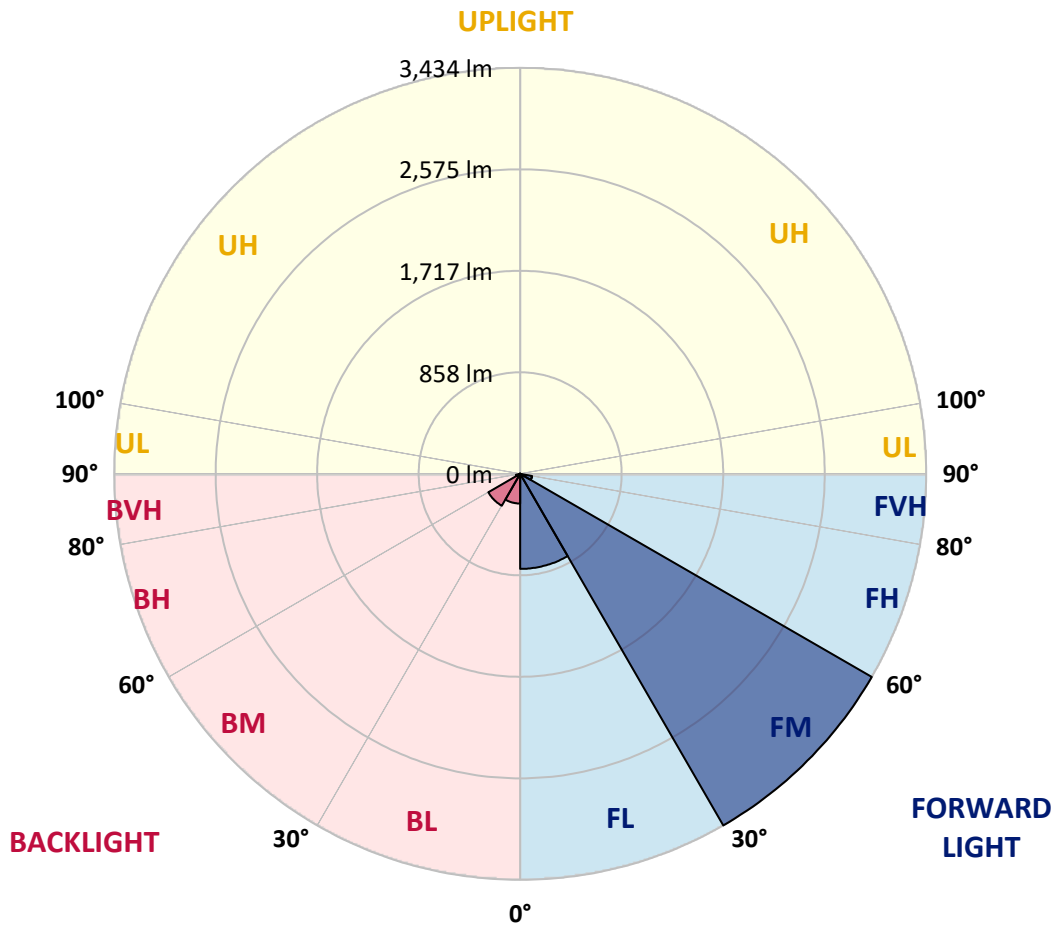
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	803.8	16.3			
FM (30°-60°)	3433.5	69.4			
FH (60°-80°)	102.2	2.1			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	251.5	5.1	B1/500		
BM (30°-60°)	311.4	6.3	B1/1000		
BH (60°-80°)	36.3	0.7	B0/110		G0/110
BVH (80°-90°)	2.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1427.7	1427.7	1427.7	1427.7	1427.7	1427.7	1427.7	1427.7	1427.7	1427.7	1427.7
2.5°	1730.4	1690.8	1694.4	1668.5	1653.3	1628.8	1595.7	1589.2	1553.2	1504.1	1454.4
5°	1886.1	1876.8	1889.0	1851.5	1853.0	1812.6	1734.8	1736.2	1653.3	1573.3	1496.2
7.5°	1896.2	1874.6	1886.8	1920.0	1939.5	1932.2	1888.3	1850.1	1771.5	1654.1	1541.6
10°	1698.0	1739.1	1752.1	1806.8	1884.7	1966.8	1961.8	1964.0	1898.4	1744.9	1580.5
12.5°	1579.1	1551.7	1595.7	1628.8	1746.3	1905.6	1978.4	1994.2	1999.3	1832.8	1619.5
15°	1525.0	1525.0	1532.2	1541.6	1626.7	1773.7	1922.2	1968.3	2077.1	1948.1	1680.7
17.5°	1558.9	1557.5	1567.6	1548.1	1579.8	1693.0	1870.3	1922.9	2164.3	2061.3	1729.0
20°	1662.0	1667.0	1660.5	1604.3	1606.5	1691.5	1812.6	1895.5	2223.4	2159.3	1793.1
22.5°	1805.4	1808.3	1771.5	1710.3	1692.2	1734.1	1845.8	1909.2	2271.0	2276.8	1812.6
25°	1971.2	1959.6	1952.4	1865.9	1811.2	1847.2	1920.7	1957.5	2300.5	2377.7	1868.1
27.5°	2201.1	2178.0	2134.1	2056.9	2016.6	1965.4	2018.0	2078.6	2384.9	2518.9	1928.6
30°	2540.5	2520.4	2434.6	2335.1	2229.2	2178.7	2195.3	2228.5	2536.9	2682.5	2008.6
32.5°	3051.5	3009.0	2885.0	2695.5	2551.3	2412.2	2407.9	2443.2	2673.1	2908.8	2103.8
35°	3614.4	3601.4	3419.1	3223.8	2944.9	2730.1	2733.7	2752.4	2934.0	3205.8	2228.5
37.5°	3988.5	4059.8	3943.8	3734.0	3499.8	3192.8	3114.9	3121.4	3292.2	3557.5	2453.3
40°	4277.5	4216.9	4230.6	4181.6	4021.6	3812.6	3640.4	3606.5	3706.7	3946.7	2676.8
42.5°	4151.3	4154.2	4238.6	4354.6	4394.2	4379.1	4203.2	4139.1	4061.3	4265.2	2889.4
45°	3795.3	3869.5	3979.1	4286.1	4555.7	4808.6	4774.0	4667.4	4306.3	4517.5	3011.9
47.5°	3227.4	3224.5	3404.0	3803.2	4402.2	4994.6	5151.7	5076.7	4480.0	4489.4	2986.7
48°	3017.7	3069.5	3254.8	3724.7	4304.9	4967.2	5185.6	5091.2	4450.4	4451.9	2965.0
50°	2230.6	2221.3	2451.9	3028.5	3845.0	4667.4	5042.9	5116.4	4449.7	4262.3	2813.7
52.5°	1178.4	1218.7	1386.7	1904.1	2718.6	3819.8	4448.3	4562.9	4292.6	3952.4	2596.0
55°	500.9	452.6	581.6	859.8	1529.4	2552.1	3263.4	3518.6	3629.5	3497.7	2271.0
57.5°	178.7	195.3	224.9	323.6	642.9	1396.8	1945.9	2144.1	2514.6	2566.5	1547.4
60°	114.6	116.8	126.1	148.5	241.4	538.4	923.2	1081.1	1249.0	1289.4	722.2
62.5°	88.6	89.4	93.7	97.3	114.6	209.0	346.7	410.8	426.7	366.8	189.5
65°	74.2	75.0	76.4	76.4	81.4	98.0	121.1	133.3	129.7	128.3	107.4
67.5°	56.9	58.4	61.3	61.3	64.1	59.8	67.0	71.4	80.7	98.0	91.5
70°	44.7	45.4	47.6	49.0	49.0	43.2	48.3	52.6	59.1	72.8	72.1
72.5°	34.6	36.0	37.5	37.5	35.3	29.5	34.6	38.2	42.5	50.5	49.0
75°	26.7	26.7	27.4	22.3	17.3	15.1	20.9	25.2	31.7	33.2	27.4
77.5°	7.2	7.9	7.2	6.5	7.2	10.8	13.7	15.9	20.2	20.2	18.0
80°	0.0	0.7	2.2	4.3	7.2	10.1	12.3	13.7	15.9	17.3	16.6
82.5°	0.0	0.7	2.2	4.3	6.5	7.9	10.8	11.5	13.0	15.1	15.1
85°	0.0	0.7	1.4	2.9	4.3	5.0	5.0	4.3	4.3	3.6	2.9
87.5°	0.0	0.0	0.7	1.4	1.4	2.2	2.2	2.2	2.2	2.2	2.2
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°	1427.7	1427.7	1427.7	1427.7	1427.7	1427.7	1427.7	1427.7	1427.7	1427.7	1427.7
2.5°	1435.0	1412.6	1378.7	1325.4	1274.2	1241.1	1209.4	1174.1	1154.6	1153.2	1142.3
5°	1452.2	1401.8	1321.1	1229.5	1131.5	1047.2	962.2	906.7	856.9	829.5	824.5
7.5°	1461.6	1396.0	1265.6	1112.1	944.9	807.2	712.1	642.2	614.8	594.6	593.9
10°	1481.1	1385.9	1182.7	956.4	749.5	610.4	544.9	513.2	498.0	492.3	483.6
12.5°	1495.5	1367.2	1097.7	796.4	592.4	505.9	477.1	469.9	470.6	473.5	469.9
15°	1515.7	1350.6	983.1	653.7	497.3	455.5	455.5	456.9	467.0	468.5	467.7
17.5°	1514.2	1318.2	864.9	538.4	439.6	433.9	436.0	449.7	456.2	458.4	453.3
20°	1531.5	1287.9	743.1	459.8	407.2	415.9	430.3	433.9	441.8	443.2	437.5
22.5°	1526.5	1212.2	629.9	397.8	382.7	399.3	413.7	418.0	415.9	411.5	410.8
25°	1517.1	1147.4	526.1	356.8	364.7	382.7	396.4	388.5	384.1	384.9	385.6
27.5°	1500.5	1065.2	440.4	327.9	340.2	366.8	366.1	363.2	367.6	364.0	367.6
30°	1497.7	983.1	369.7	302.0	322.2	341.6	343.1	348.1	353.2	346.7	353.2
32.5°	1502.0	893.0	319.3	286.1	311.4	312.1	327.9	333.0	329.4	315.0	316.4
35°	1535.1	823.8	282.5	277.5	294.1	294.8	309.9	303.4	287.6	278.9	284.0
37.5°	1605.0	766.1	265.2	269.5	271.0	280.4	281.1	268.1	269.5	268.8	271.7
40°	1694.4	722.2	253.0	262.3	260.9	267.4	241.4	248.6	255.1	257.3	258.7
42.5°	1755.7	690.4	245.0	250.8	247.9	236.4	222.0	229.2	234.2	242.2	243.6
45°	1783.1	665.2	235.7	230.6	230.6	209.7	204.0	205.4	216.9	225.6	224.1
47.5°	1738.4	640.7	219.1	204.0	209.0	191.7	185.2	185.2	197.5	208.3	206.1
48°	1721.1	630.6	219.8	198.2	201.8	188.8	182.3	180.9	194.6	204.7	204.7
50°	1635.3	593.2	201.1	182.3	175.1	173.7	169.4	170.8	179.5	188.8	188.8
52.5°	1468.1	512.4	170.1	156.4	143.4	152.1	154.2	151.4	155.7	164.3	163.6
55°	1225.2	393.5	136.2	129.7	119.6	129.0	133.3	129.7	125.4	131.9	131.9
57.5°	784.9	211.9	108.8	110.3	100.2	109.5	113.2	104.5	96.6	101.6	100.9
60°	353.9	126.8	89.4	87.2	80.7	91.5	97.3	87.2	76.4	80.0	83.6
62.5°	132.6	90.1	67.7	66.3	64.9	75.0	77.8	69.9	59.1	61.3	62.0
65°	97.3	79.3	54.1	49.0	51.9	59.1	57.7	49.7	42.5	42.5	44.0
67.5°	82.9	69.2	44.0	38.2	38.2	38.9	36.0	31.7	29.5	31.0	32.4
70°	64.9	54.8	34.6	29.5	26.7	23.8	20.9	20.2	18.0	20.2	19.5
72.5°	41.8	36.8	26.7	22.3	20.2	16.6	13.7	13.0	10.8	10.1	10.1
75°	22.3	22.3	20.9	18.0	15.9	13.0	10.8	8.6	5.8	4.3	4.3
77.5°	15.9	17.3	18.7	17.3	14.4	10.8	8.6	5.8	2.9	1.4	1.4
80°	15.1	17.3	18.7	16.6	14.4	10.8	7.9	4.3	2.2	0.7	0.7
82.5°	13.7	15.9	17.3	15.1	13.0	9.4	7.2	4.3	2.2	0.7	0.7
85°	2.9	3.6	4.3	4.3	5.0	6.5	5.0	3.6	1.4	0.7	0.7
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	1.4	1.4	0.7	0.7	0.7
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)