

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: P526763

Luminaire Tested: **GALN-SA1D-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
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-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3981 lumens
Efficiency: N/A
Efficacy: 61.2 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

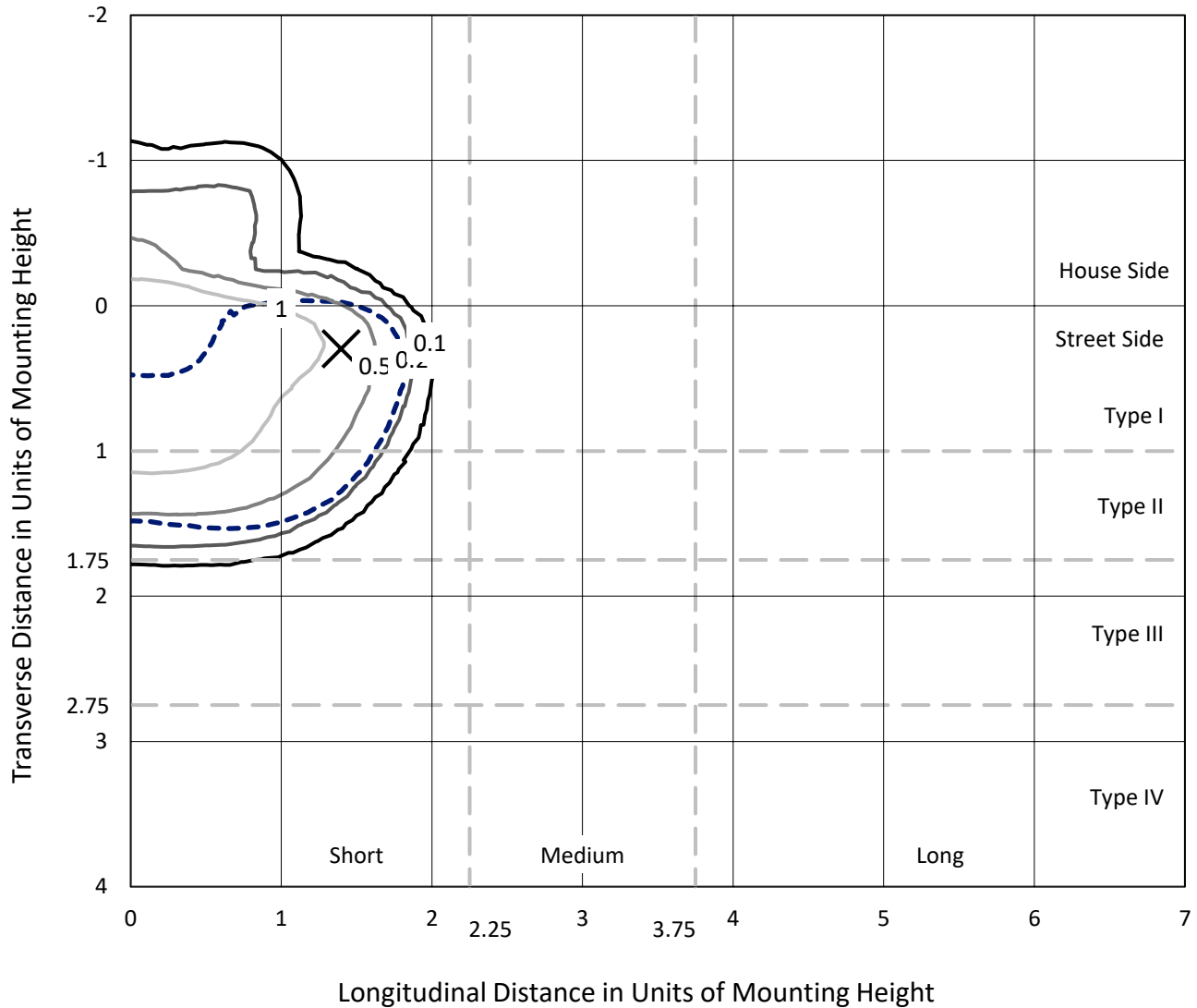
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

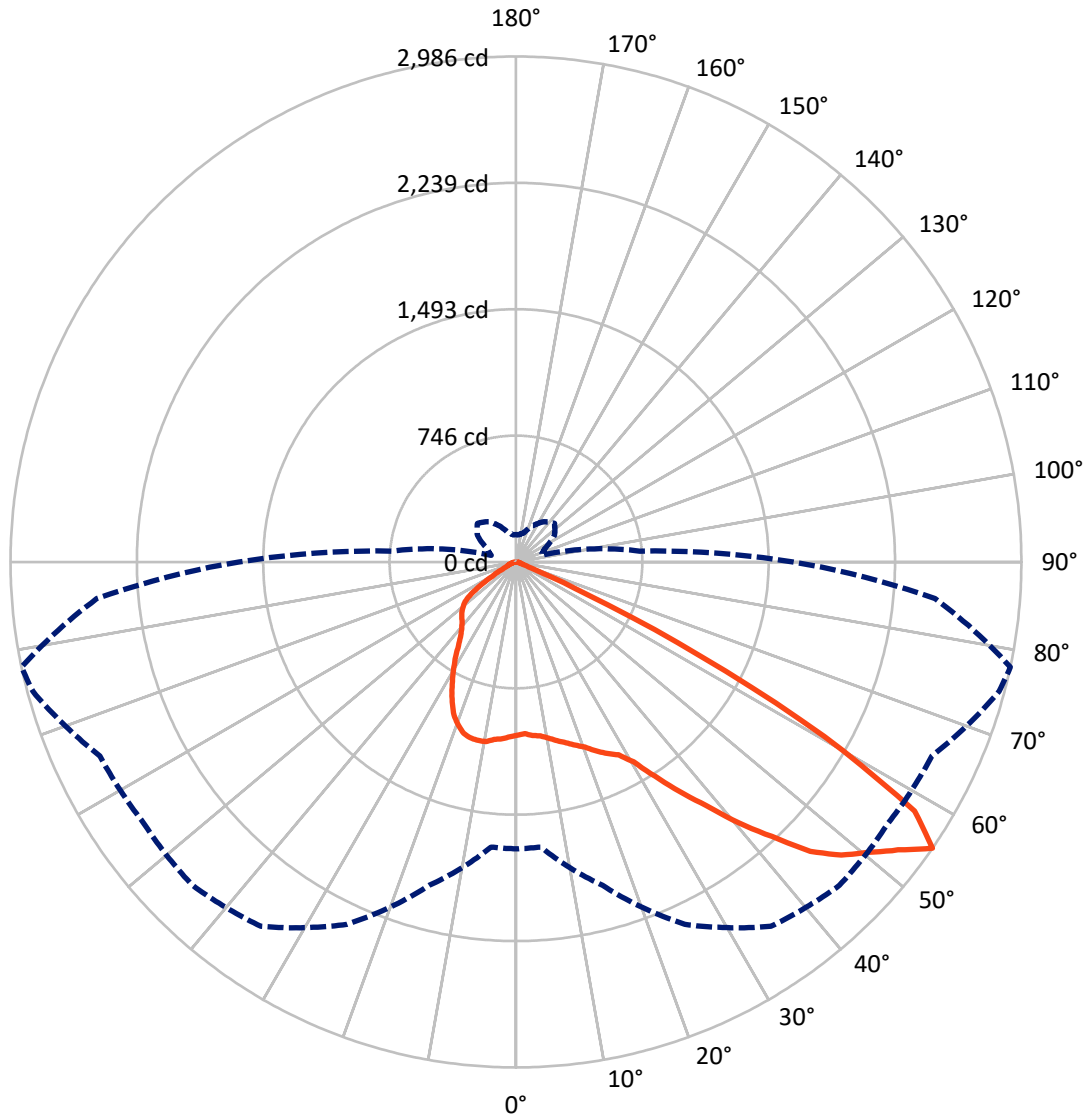
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	739.4	0.0	739.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	3241.6	0.0	3241.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	3981.0	0.0	3981.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	2.3
10°-20°	241.5	6.1
20°-30°	423.4	10.6
30°-40°	698.1	17.5
40°-50°	1015.8	25.5
50°-60°	1151.0	28.9
60°-70°	329.1	8.3
70°-80°	25.6	0.6
80°-90°	5.3	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°	3981.0	100.0
0°-180°	3981.0	100.0

Coefficient of Utilization



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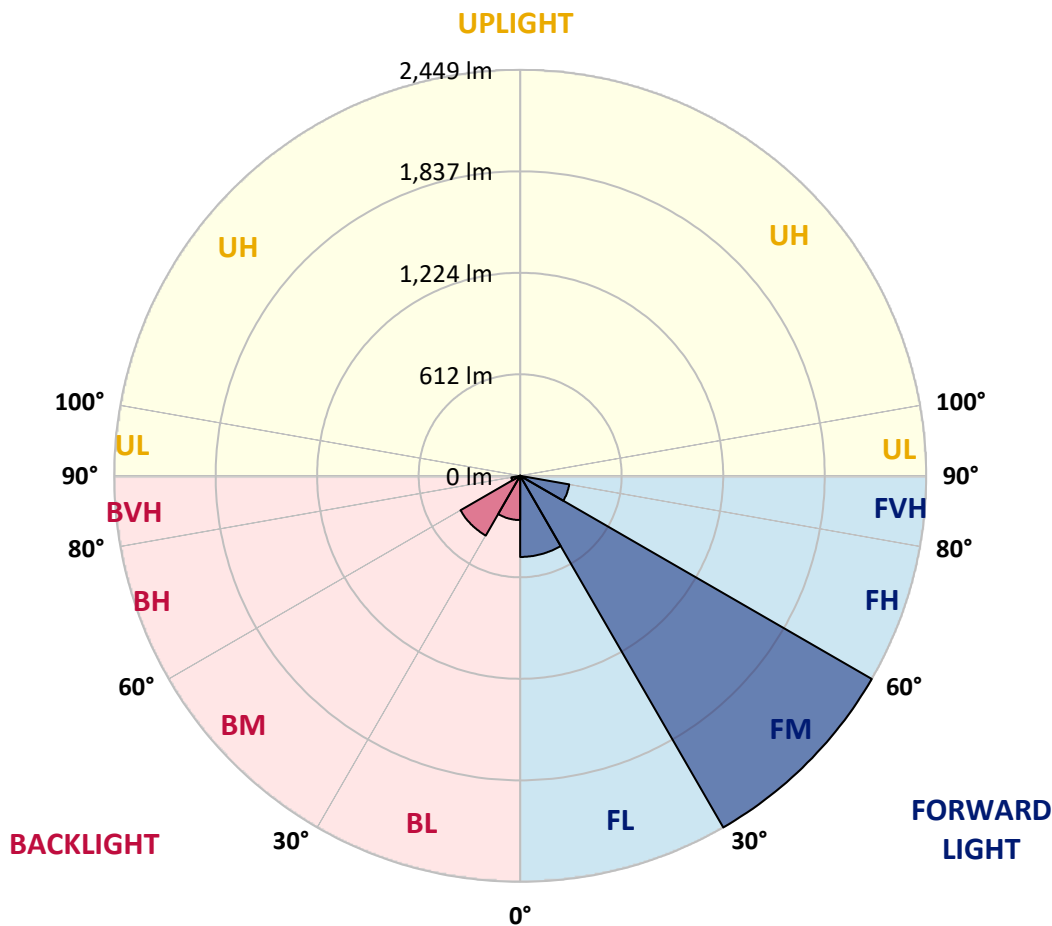
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	489.4	12.3			
FM (30°-60°)	2448.9	61.5			
FH (60°-80°)	300.7	7.6			G0/660
FVH (80°-90°)	2.6	0.1			G0/10
BL (0°-30°)	266.8	6.7	B1/500		
BM (30°-60°)	415.9	10.4	B1/1000		
BH (60°-80°)	54.0	1.4	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°	55°	65°	75°	78°	85°
0°	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5
2.5°	962.3	971.6	973.0	984.4	983.7	1002.9	1008.6	1009.3	1022.1	1015.7	1032.1
5°	935.3	930.3	928.1	948.1	953.8	970.8	985.1	993.6	1020.0	1029.2	1046.3
7.5°	911.1	911.1	912.5	930.3	928.1	950.2	965.2	991.5	1029.9	1037.8	1058.4
10°	887.6	879.0	889.7	908.2	923.9	933.8	965.2	990.1	1034.9	1057.7	1086.2
12.5°	875.5	879.7	881.2	894.7	911.8	941.7	958.7	1000.0	1070.5	1084.0	1114.6
15°	951.6	943.1	922.4	910.3	924.6	938.8	981.5	1023.5	1089.0	1108.2	1142.4
17.5°	1039.9	1032.8	1015.7	982.9	950.9	977.3	1010.7	1049.1	1108.9	1137.4	1187.9
20°	1155.2	1143.8	1126.7	1062.7	1034.9	1006.4	1042.0	1087.6	1141.7	1167.3	1219.3
22.5°	1292.6	1292.6	1254.1	1176.5	1118.9	1091.8	1106.8	1133.1	1178.0	1212.8	1264.1
25°	1435.6	1431.4	1396.5	1316.1	1218.5	1186.5	1203.6	1222.1	1234.2	1253.4	1287.6
27.5°	1599.3	1574.4	1530.3	1441.3	1355.2	1293.3	1311.8	1295.4	1280.5	1290.4	1339.5
30°	1710.4	1726.0	1669.8	1584.4	1503.2	1434.2	1437.8	1423.5	1355.2	1369.4	1398.6
32.5°	1825.7	1835.6	1804.3	1757.3	1676.2	1595.8	1566.6	1554.5	1503.2	1509.7	1481.2
35°	1921.8	1941.0	1913.2	1892.6	1869.1	1804.3	1723.9	1763.0	1680.5	1664.8	1590.8
37.5°	2010.0	2004.3	2037.1	2015.7	2010.7	1965.2	1876.9	1884.8	1829.2	1825.7	1740.3
40°	2089.0	2090.5	2135.3	2145.3	2125.3	2044.2	1916.1	1978.0	2022.8	2027.1	1917.5
42.5°	2154.5	2173.7	2212.2	2292.6	2262.7	2127.5	1956.6	2024.3	2190.8	2217.1	2085.5
45°	2211.5	2250.6	2298.3	2370.2	2353.1	2245.6	2057.7	2119.6	2370.2	2439.2	2243.5
47.5°	2215.0	2266.3	2318.2	2425.0	2446.3	2309.0	2162.3	2270.5	2512.5	2587.3	2358.8
50°	2200.8	2227.8	2331.7	2447.8	2496.2	2412.2	2309.0	2397.2	2650.6	2697.6	2417.2
52.5°	2032.1	2052.7	2261.3	2469.1	2585.8	2528.9	2503.3	2573.7	2791.5	2826.4	2472.0
55°	1694.0	1690.4	1977.3	2361.6	2627.1	2701.9	2686.2	2711.1	2954.5	2985.9	2485.5
57.5°	1158.8	1223.5	1471.2	1966.6	2374.4	2661.3	2677.7	2636.4	2764.5	2776.6	2166.6
60°	624.9	652.0	851.3	1312.5	1807.9	2168.7	2211.5	2136.7	2126.8	2092.6	1546.7
62.5°	248.4	261.9	375.1	649.8	985.1	1318.2	1410.0	1379.4	1313.9	1224.2	800.7
65°	118.2	126.7	186.5	303.9	437.0	549.5	641.3	669.8	494.0	444.9	264.1
67.5°	80.4	86.8	135.9	173.7	155.9	163.0	212.1	197.2	116.0	98.9	73.3
70°	61.2	65.5	108.9	118.2	69.8	49.1	54.8	51.2	47.7	48.4	47.7
72.5°	43.4	47.0	79.7	69.8	30.6	22.8	29.2	34.9	34.9	34.9	34.2
75°	26.3	29.9	46.3	27.0	12.1	12.1	18.5	23.5	24.9	25.6	24.2
77.5°	13.5	17.1	15.7	7.8	7.8	9.3	13.5	16.4	17.8	17.8	17.1
80°	2.8	2.8	2.8	4.3	7.8	10.0	13.5	14.9	17.1	17.1	15.7
82.5°	0.0	0.7	2.1	4.3	7.1	9.3	12.8	14.9	17.1	17.8	16.4
85°	0.0	0.7	1.4	2.8	5.0	5.7	5.0	4.3	4.3	4.3	4.3
87.5°	0.0	0.0	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5
2.5°	1033.5	1035.6	1032.1	1031.3	1028.5	1037.0	1016.4	1011.4	1024.2	1012.1	1015.0
5°	1047.0	1052.0	1045.6	1034.9	1019.2	995.0	974.4	947.4	934.5	925.3	923.9
7.5°	1057.0	1060.5	1054.1	1020.0	973.0	911.8	866.2	832.8	806.4	798.6	785.8
10°	1097.5	1098.3	1066.2	990.8	899.0	818.5	748.8	697.5	671.2	654.8	647.7
12.5°	1124.6	1123.2	1058.4	933.1	810.7	703.9	624.2	562.3	538.1	530.3	525.3
15°	1158.8	1150.9	1039.9	874.0	696.8	581.5	509.6	466.9	464.8	459.8	464.8
17.5°	1185.8	1163.7	1012.8	766.6	587.9	479.0	432.0	434.9	440.6	445.6	446.3
20°	1229.9	1184.4	950.9	672.6	486.8	410.7	410.0	422.8	437.0	442.7	448.4
22.5°	1263.4	1192.9	884.7	572.3	404.3	382.9	395.0	414.2	424.9	430.6	439.2
25°	1275.5	1169.4	796.5	471.9	364.4	370.1	388.6	401.4	415.0	421.4	417.8
27.5°	1287.6	1157.3	691.1	388.6	343.1	361.6	377.2	390.0	394.3	402.9	408.6
30°	1316.8	1115.3	596.5	336.0	332.4	355.9	367.3	371.5	382.9	387.9	387.9
32.5°	1340.3	1099.0	496.1	311.0	331.0	358.7	360.2	360.2	361.6	358.0	356.6
35°	1388.7	1042.7	406.4	296.1	330.3	359.4	363.0	350.9	318.2	305.3	301.8
37.5°	1448.4	1006.4	340.2	292.5	335.2	368.0	373.7	328.1	285.4	264.8	261.2
40°	1521.0	980.8	296.8	291.1	346.6	387.9	370.8	310.3	254.8	224.9	223.5
42.5°	1605.7	957.3	267.6	290.4	360.9	408.6	368.0	295.4	223.5	203.6	206.4
45°	1673.4	944.5	247.7	285.4	365.8	420.7	370.1	269.0	210.7	197.9	199.3
47.5°	1726.0	917.5	231.3	276.9	365.1	424.9	350.9	258.4	204.3	207.8	211.4
50°	1727.5	881.2	210.7	258.4	354.5	417.1	328.8	248.4	202.9	217.8	224.9
52.5°	1708.2	829.9	188.6	232.0	329.5	390.0	308.9	244.1	196.4	195.0	203.6
55°	1639.9	733.8	151.6	187.9	278.3	321.7	291.1	236.3	177.2	160.9	162.3
57.5°	1325.3	526.0	111.7	134.5	197.2	235.6	262.6	232.7	159.4	136.7	137.4
60°	820.7	298.2	81.9	91.8	121.7	143.1	212.8	216.4	142.4	115.3	113.9
62.5°	421.4	147.3	63.3	64.8	74.7	84.0	145.9	181.5	128.8	109.6	109.6
65°	140.9	72.6	55.5	49.8	49.8	52.0	88.3	126.0	108.9	91.8	91.8
67.5°	60.5	54.1	48.4	43.4	39.9	37.7	49.8	73.3	81.1	69.8	66.9
70°	47.0	45.6	42.0	36.3	31.3	28.5	29.2	37.7	46.3	44.8	43.4
72.5°	34.9	34.9	33.5	28.5	24.2	20.6	19.2	19.9	22.1	22.8	23.5
75°	24.2	24.9	24.9	22.1	17.8	14.9	12.8	10.7	8.5	7.1	6.4
77.5°	16.4	17.1	18.5	16.4	13.5	10.0	7.8	5.7	3.6	1.4	1.4
80°	14.2	16.4	17.8	16.4	14.2	10.7	7.8	4.3	2.1	0.0	0.0
82.5°	14.9	16.4	18.5	15.7	13.5	10.0	7.8	5.0	2.1	0.7	0.0
85°	3.6	3.6	4.3	5.0	6.4	7.1	5.7	3.6	2.1	0.7	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.0	0.0
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)