

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: P526524

Luminaire Tested: **GALN-SA1C-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4990 lumens
Efficiency: N/A
Efficacy: 87.5 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

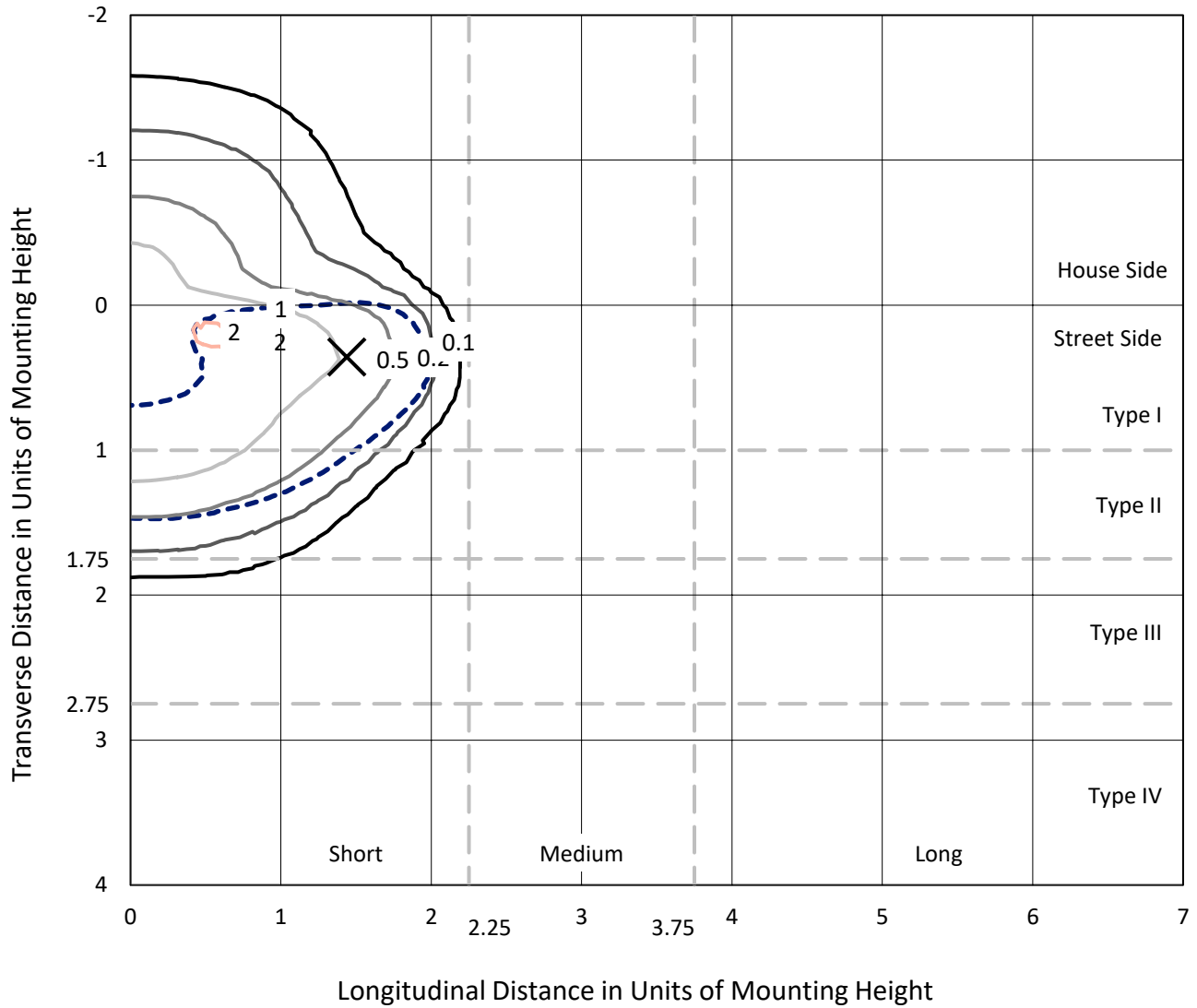
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

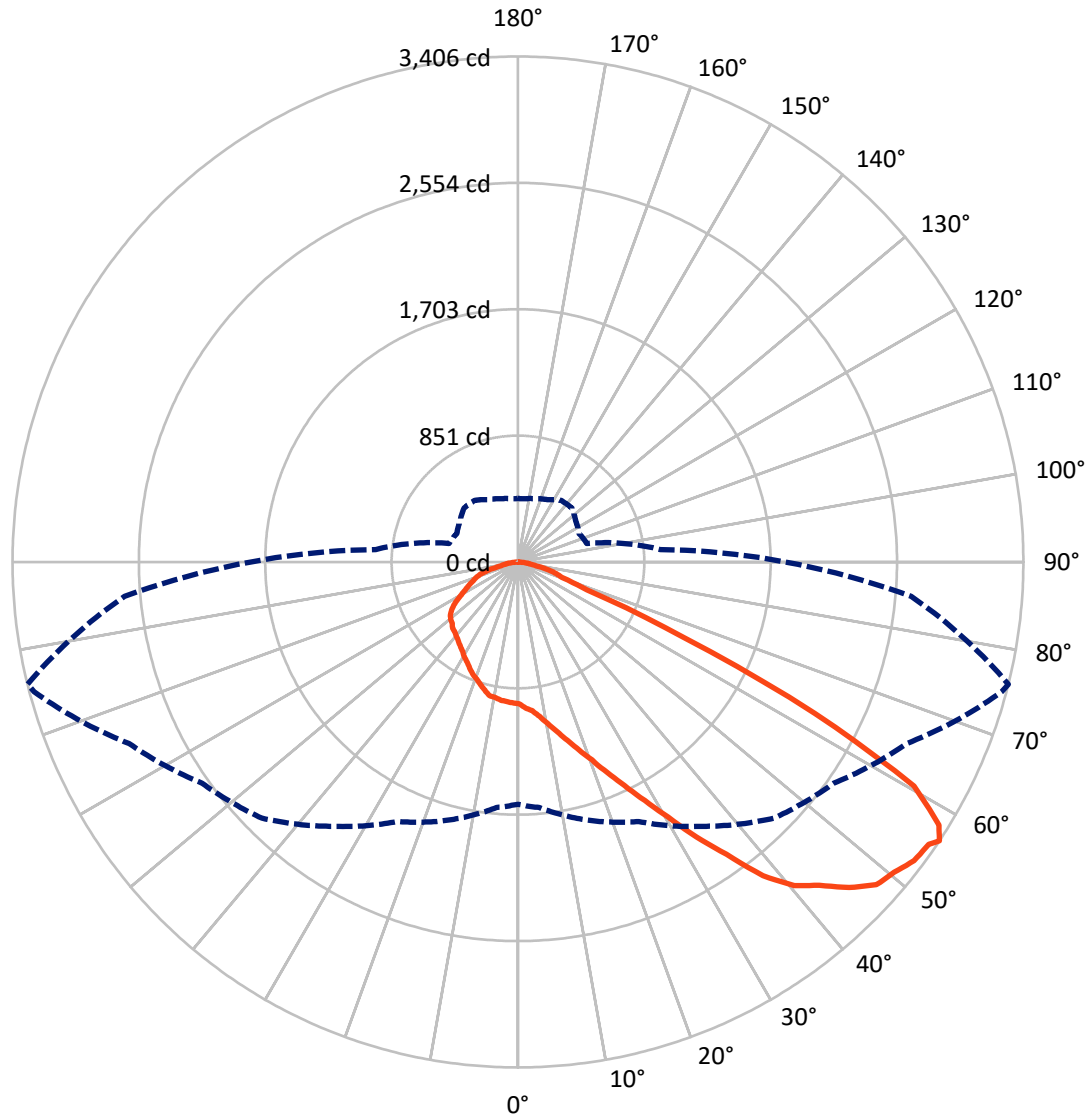
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1341.7	0.0	1341.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	3648.3	0.0	3648.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	4990.0	0.0	4990.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	1.9
10°-20°	297.4	6.0
20°-30°	520.2	10.4
30°-40°	814.4	16.3
40°-50°	1184.8	23.7
50°-60°	1302.2	26.1
60°-70°	581.2	11.6
70°-80°	167.9	3.4
80°-90°	27.2	0.5
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°	4990.0	100.0
0°-180°	4990.0	100.0

Coefficient of Utilization



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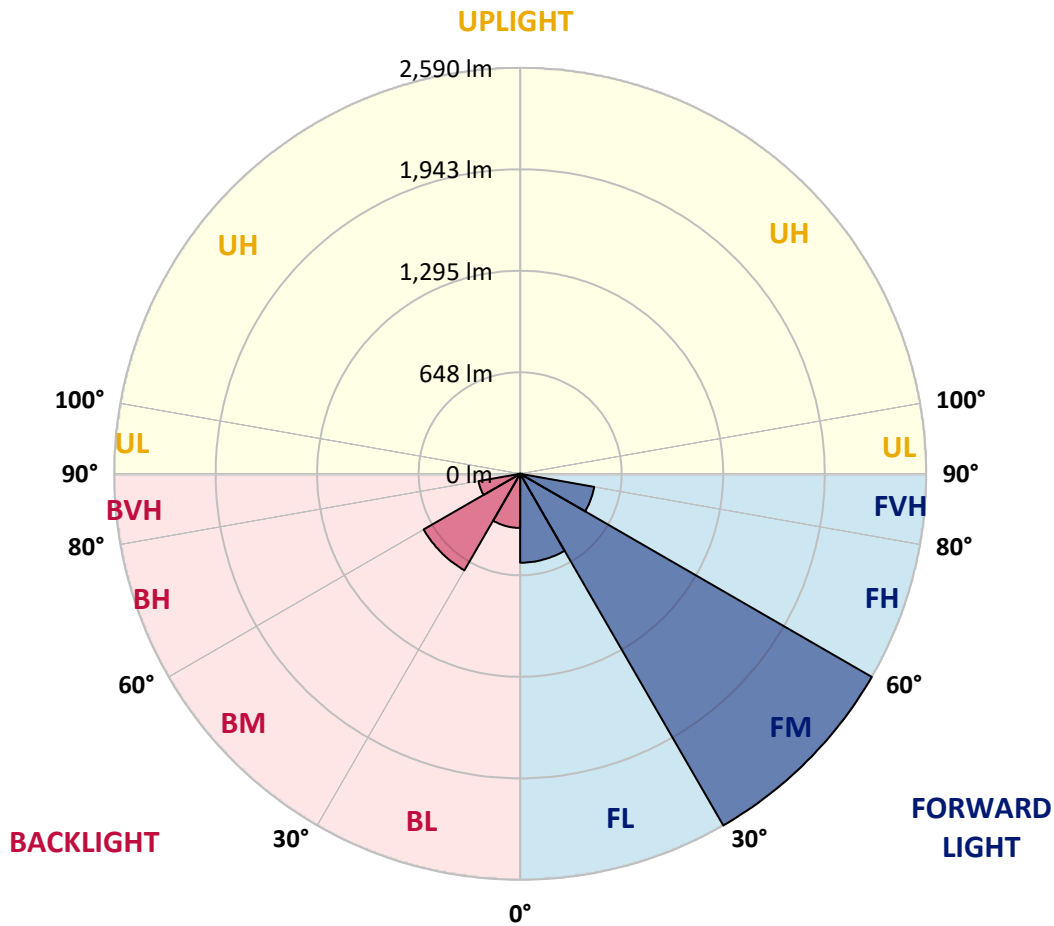
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.1	11.4			
FM (30°-60°)	2590.4	51.9			
FH (60°-80°)	479.2	9.6			G0/660
FVH (80°-90°)	11.7	0.2			G1/100
BL (0°-30°)	345.2	6.9	B1/500		
BM (30°-60°)	711.0	14.2	B1/1000		
BH (60°-80°)	269.9	5.4	B1/500		G1/500
BVH (80°-90°)	15.5	0.3			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°	75°	76°	85°
0°	954.8	954.8	954.8	954.8	954.8	954.8	954.8	954.8	954.8	954.8	954.8
2.5°	1051.8	1035.0	1033.7	1029.2	1031.7	1020.1	1007.8	991.6	974.8	985.2	960.6
5°	1125.5	1102.9	1112.0	1096.4	1098.4	1082.9	1057.6	1038.9	1018.2	1005.9	988.4
7.5°	1151.4	1153.4	1159.8	1157.2	1144.3	1144.3	1127.5	1094.5	1058.3	1051.2	1022.0
10°	1186.4	1187.0	1179.9	1181.8	1199.9	1191.5	1176.6	1162.4	1115.8	1107.4	1055.7
12.5°	1198.6	1187.0	1198.6	1209.0	1230.3	1242.0	1238.7	1228.4	1178.6	1172.8	1097.1
15°	1200.6	1193.5	1203.2	1226.5	1245.2	1294.4	1319.0	1311.8	1245.9	1246.5	1143.7
17.5°	1191.5	1201.2	1205.1	1225.2	1268.5	1314.4	1385.6	1395.3	1341.0	1332.5	1202.5
20°	1203.8	1196.7	1201.9	1220.0	1277.6	1349.4	1442.5	1506.5	1430.2	1424.4	1263.3
22.5°	1251.0	1241.3	1240.0	1251.7	1293.1	1367.5	1502.7	1617.8	1538.9	1542.1	1339.0
25°	1287.9	1293.1	1288.6	1287.9	1313.8	1394.6	1582.2	1750.4	1686.4	1667.6	1428.3
27.5°	1351.3	1363.6	1354.5	1366.8	1361.0	1435.4	1639.2	1897.3	1845.5	1820.3	1509.1
30°	1439.3	1445.7	1437.3	1437.3	1419.9	1492.3	1690.9	2050.6	2029.2	1994.9	1604.2
32.5°	1555.1	1564.8	1547.9	1538.2	1535.7	1577.1	1784.1	2201.9	2238.2	2209.0	1730.4
35°	1708.4	1702.5	1682.5	1673.4	1638.5	1707.1	1922.5	2375.9	2471.0	2419.3	1883.0
37.5°	1843.6	1834.5	1833.2	1782.8	1791.2	1847.4	2040.2	2507.9	2696.8	2681.9	2044.1
40°	1969.7	1978.1	1991.7	1963.2	1950.3	2012.4	2177.3	2608.8	2872.1	2866.3	2168.3
42.5°	2104.9	2097.1	2121.1	2097.1	2077.7	2165.7	2326.1	2678.7	3026.0	2978.2	2298.3
45°	2300.9	2276.3	2284.7	2286.7	2272.4	2304.8	2387.6	2729.1	3134.1	3128.9	2393.4
47.5°	2464.6	2465.2	2451.0	2440.0	2396.6	2429.0	2456.1	2760.8	3258.3	3249.8	2430.3
50°	2525.4	2517.0	2558.4	2582.3	2584.9	2518.9	2509.8	2778.3	3323.6	3286.7	2467.1
52.5°	2306.7	2314.5	2379.8	2522.1	2604.3	2611.4	2572.6	2814.5	3350.1	3342.4	2496.9
55°	1856.5	1894.0	2001.4	2165.7	2360.4	2574.5	2640.5	2852.0	3364.3	3357.9	2628.9
56°	1632.0	1661.1	1800.9	1929.6	2174.1	2440.6	2597.8	2892.1	3375.3	3405.7	2659.9
57.5°	1313.8	1347.4	1447.7	1593.9	1882.4	2185.8	2480.1	2843.0	3332.6	3344.3	2682.5
60°	821.5	824.8	945.1	1041.5	1244.6	1540.8	1892.7	2473.6	3084.3	3067.4	2409.6
62.5°	538.8	539.5	648.8	727.7	820.2	888.1	1113.9	1640.4	2275.7	2245.9	1715.5
65°	378.4	386.8	471.6	577.0	614.5	578.9	571.8	864.9	1271.1	1228.4	921.8
67.5°	276.9	277.5	352.5	465.7	520.1	440.5	357.7	422.4	503.3	502.0	426.9
70°	183.1	190.8	248.4	348.0	410.1	353.8	292.4	302.1	320.2	320.2	317.6
72.5°	106.7	113.8	152.0	220.6	230.3	221.2	231.6	258.7	270.4	269.7	266.5
75°	60.8	64.0	72.4	91.9	114.5	135.2	170.1	196.0	207.6	214.8	206.3
77.5°	35.6	37.5	42.7	52.4	59.5	73.1	92.5	110.6	126.1	124.2	125.5
80°	18.8	18.8	23.9	31.0	41.4	51.7	61.5	71.8	80.2	82.2	84.1
82.5°	11.0	11.6	15.5	22.6	29.8	36.9	47.2	54.3	62.1	62.7	64.0
85°	5.8	6.5	9.7	14.9	20.1	22.6	23.3	22.0	23.9	22.6	25.9
87.5°	1.9	1.9	3.2	2.6	2.6	3.2	3.9	3.9	5.2	5.2	5.2
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°	954.8	954.8	954.8	954.8	954.8	954.8	954.8	954.8	954.8	954.8	954.8
2.5°	959.9	959.9	949.0	928.3	925.0	916.6	908.8	908.2	902.4	897.2	894.6
5°	978.1	958.0	941.8	923.1	901.1	890.7	879.1	866.2	861.0	866.2	865.5
7.5°	998.8	981.9	933.4	898.5	873.3	862.9	850.0	836.4	837.7	837.7	828.6
10°	1018.8	996.2	918.5	873.9	837.0	829.3	822.2	827.3	833.8	835.1	829.3
12.5°	1052.4	1001.3	911.4	849.3	826.0	809.2	813.8	828.0	841.6	837.7	842.2
15°	1077.7	1005.9	879.1	824.1	795.0	802.8	818.9	828.6	851.3	848.7	853.2
17.5°	1102.3	1008.5	847.4	790.5	778.2	799.5	811.8	839.6	846.7	862.3	868.1
20°	1152.7	1013.6	815.0	769.8	765.9	790.5	811.8	824.8	840.3	853.9	853.9
22.5°	1178.6	1011.0	793.7	742.6	754.9	770.4	789.8	811.8	811.8	824.8	825.4
25°	1210.9	1000.7	760.1	729.7	738.7	753.6	775.6	767.8	776.2	776.2	786.6
27.5°	1247.8	978.7	731.0	706.4	724.5	740.7	743.9	738.7	729.0	727.7	723.8
30°	1277.6	951.5	709.6	698.6	713.5	722.5	712.2	701.2	684.4	683.1	674.0
32.5°	1318.3	917.9	683.1	679.2	696.0	696.7	693.4	676.6	652.0	641.7	631.3
35°	1386.9	898.5	663.0	668.9	674.0	672.1	666.3	648.2	623.6	619.0	615.2
37.5°	1437.3	884.3	642.3	649.5	654.0	656.6	639.1	619.0	619.7	610.6	608.1
40°	1494.3	875.2	625.5	628.8	629.4	637.8	616.5	606.8	611.3	605.5	609.3
42.5°	1567.4	877.8	608.1	605.5	617.8	614.5	604.2	591.2	593.8	576.4	578.9
45°	1606.2	895.3	597.7	586.1	599.6	599.0	585.4	573.1	557.6	524.0	525.3
47.5°	1632.0	899.8	573.1	565.4	579.6	588.0	572.5	544.0	522.0	498.1	492.3
50°	1658.6	908.2	561.5	545.3	551.1	571.2	551.8	524.6	503.3	481.9	485.1
52.5°	1681.8	924.4	538.8	514.9	525.3	547.2	536.9	503.9	480.6	463.2	458.0
55°	1785.3	960.6	500.7	469.6	494.2	522.0	516.2	476.1	450.9	441.8	440.5
56°	1801.5	961.9	480.6	454.1	476.7	513.6	506.5	463.8	441.2	426.9	427.6
57.5°	1804.1	946.4	452.2	439.9	459.3	501.3	492.3	454.1	423.0	410.1	406.2
60°	1587.4	738.7	416.6	408.8	431.5	463.8	460.6	427.6	392.6	377.8	384.9
62.5°	1082.2	541.4	388.8	387.5	399.1	430.8	422.4	392.6	363.5	353.8	349.3
65°	630.0	410.8	361.6	356.4	366.1	382.9	388.8	357.7	327.3	320.8	318.9
67.5°	371.9	339.6	326.7	318.3	315.0	325.4	329.9	311.8	281.4	272.3	280.1
70°	311.1	302.1	302.7	288.5	280.7	273.6	269.7	253.6	228.3	216.7	213.5
72.5°	268.4	264.6	262.0	249.0	241.9	225.8	208.9	192.8	174.0	164.3	165.0
75°	205.1	203.8	205.1	198.6	186.3	173.4	157.8	137.1	122.9	110.6	113.2
77.5°	122.3	126.1	128.1	125.5	120.3	108.7	99.0	85.4	71.8	62.1	60.8
80°	84.1	87.3	90.6	87.3	82.2	73.7	63.4	53.0	43.3	38.2	36.9
82.5°	64.0	67.3	69.2	66.0	59.5	50.5	43.3	36.2	28.5	23.3	22.0
85°	23.3	26.5	25.9	31.0	33.6	32.3	27.8	21.3	16.2	11.6	11.0
87.5°	6.5	5.8	6.5	6.5	6.5	5.8	5.2	5.2	5.2	3.2	2.6
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)