

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: P939409

Luminaire Tested: **GALN-SB2A-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8224 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 57.3
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

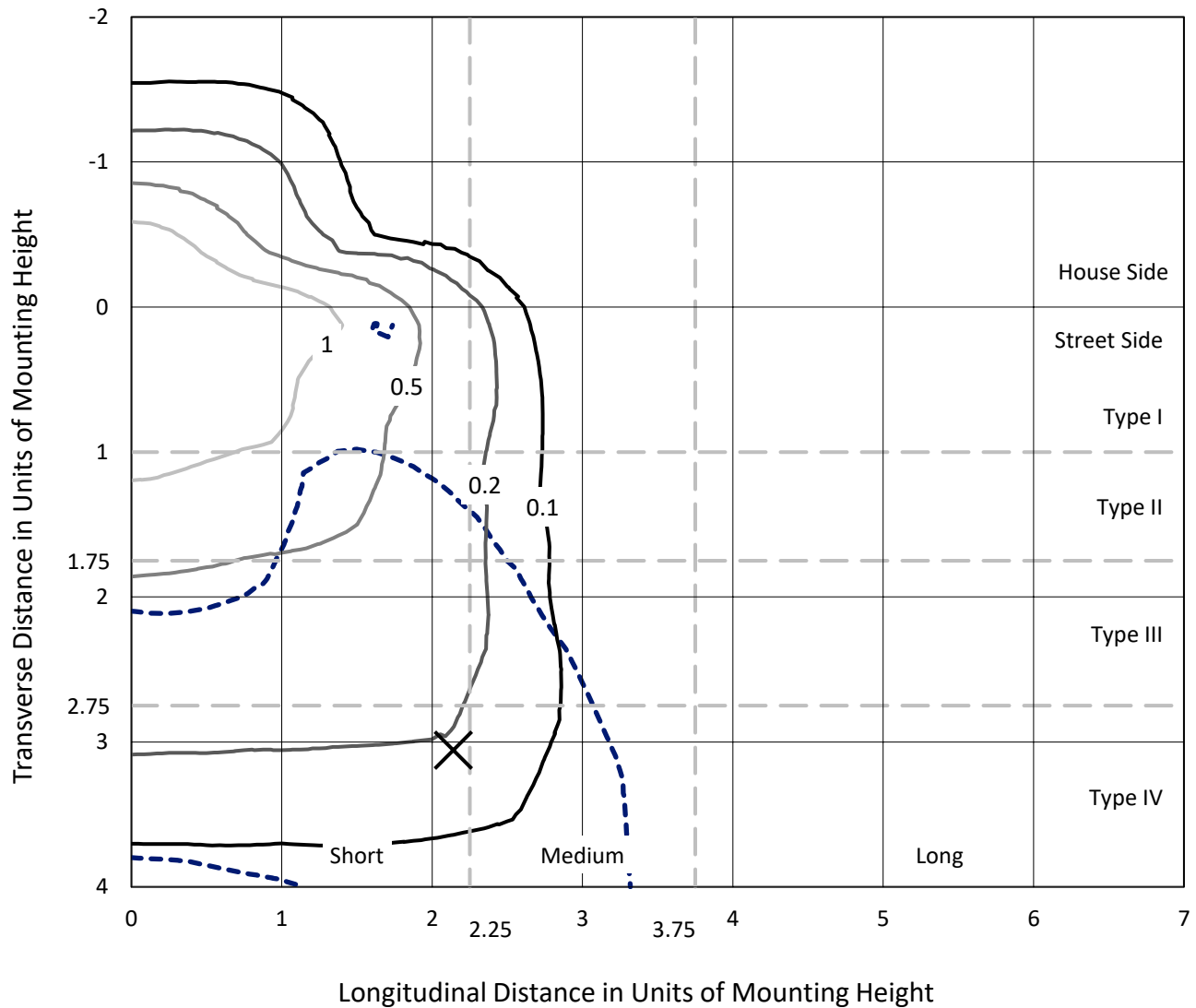


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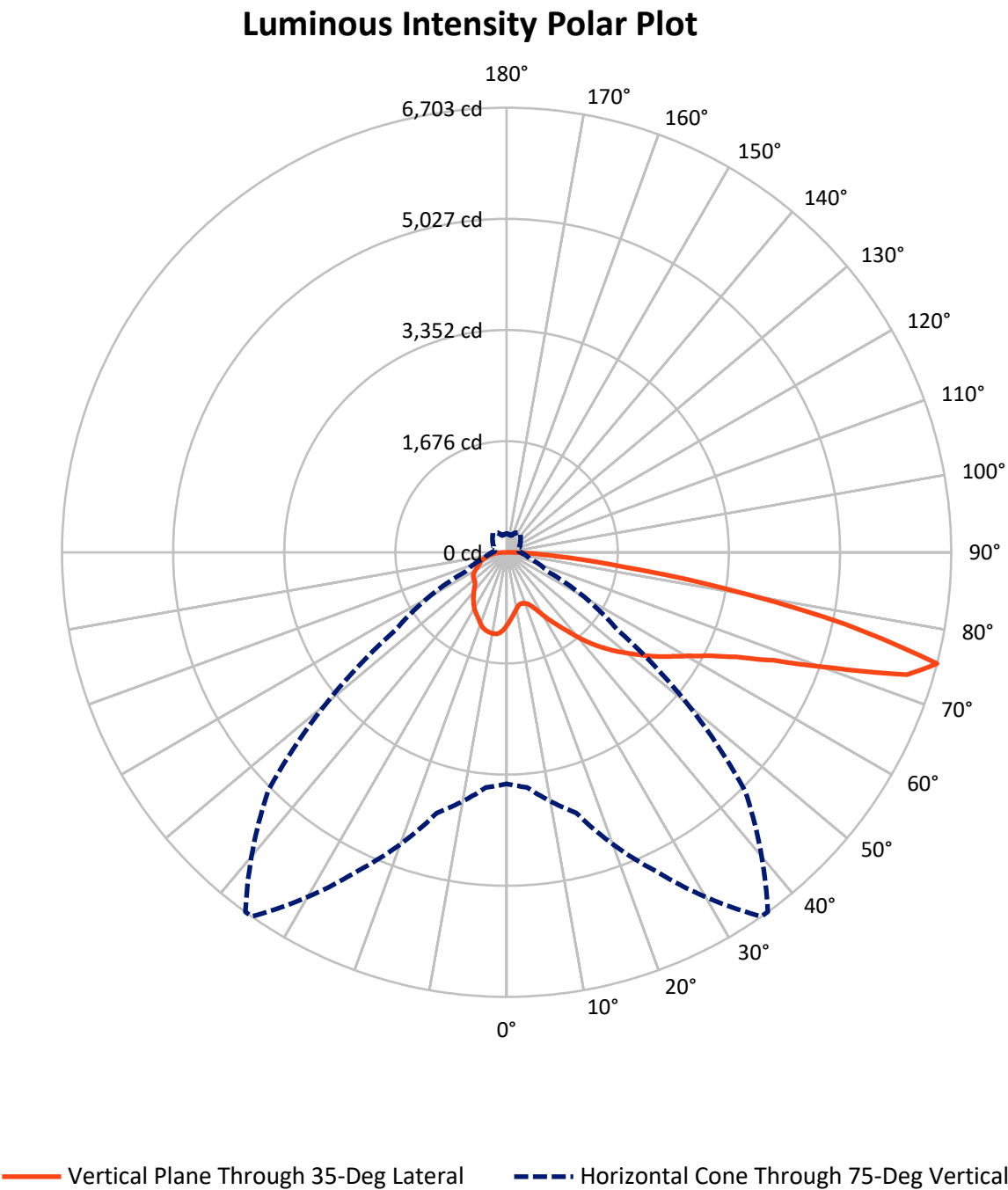
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1957.1	0.0	1957.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	6266.9	0.0	6266.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	8224.0	0.0	8224.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.8	1.3
10°-20°	299.3	3.6
20°-30°	502.6	6.1
30°-40°	781.1	9.5
40°-50°	1159.3	14.1
50°-60°	1600.5	19.5
60°-70°	1941.8	23.6
70°-80°	1604.8	19.5
80°-90°	230.8	2.8
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°	8224.0	100.0
0°-180°	8224.0	100.0

Coefficient of Utilization



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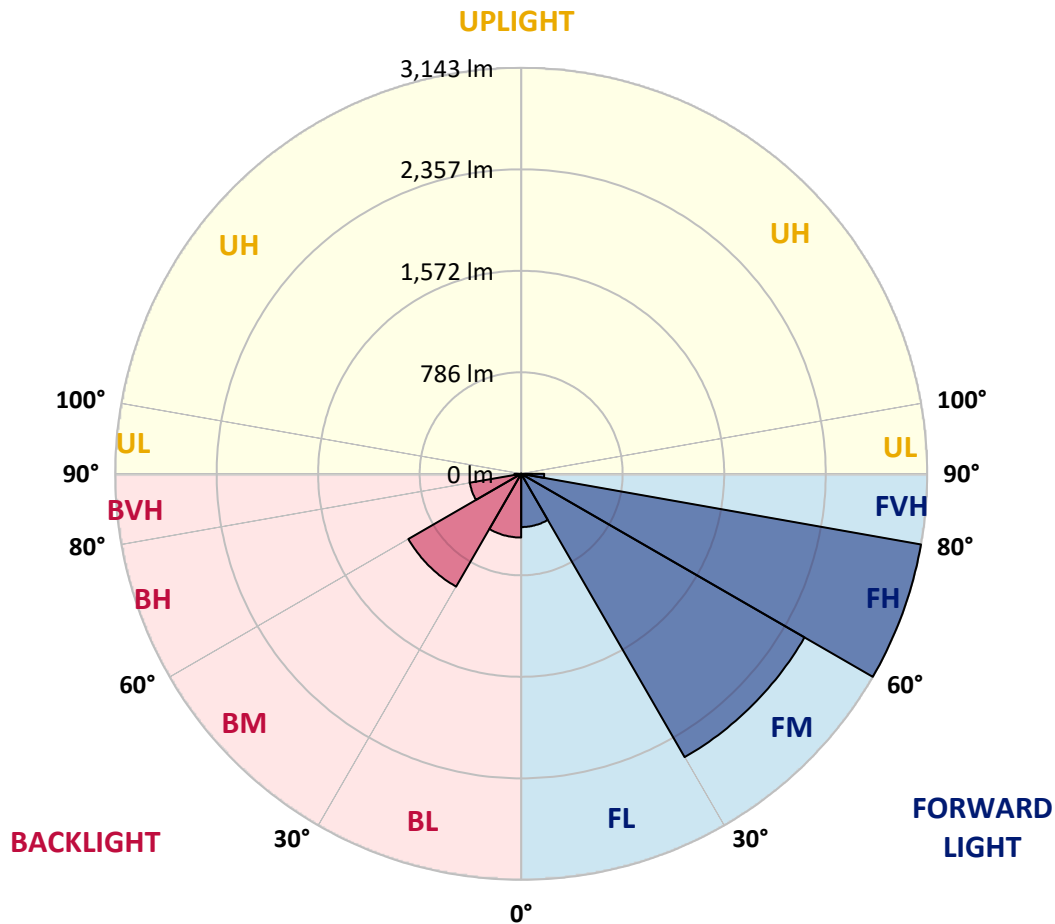
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	412.4	5.0			
FM	(30°-60°)	2532.5	30.8			
FH	(60°-80°)	3143.1	38.2			G2/5000
FVH	(80°-90°)	178.8	2.2			G2/225
BL	(0°-30°)	493.2	6.0	B1/500		
BM	(30°-60°)	1008.4	12.3	B2/2500		
BH	(60°-80°)	403.5	4.9	B1/500		G1/500
BVH	(80°-90°)	52.0	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9
2.5°	1010.5	1016.8	1019.4	1018.1	1024.8	1023.9	1033.2	1044.8	1060.8	1076.3	1099.0
5°	932.7	939.4	945.2	950.5	963.4	967.4	982.1	1004.3	1033.7	1063.4	1100.8
7.5°	860.3	866.1	874.9	884.7	906.5	910.5	935.0	969.6	1010.5	1054.1	1105.7
10°	801.1	806.9	816.3	827.4	854.5	859.4	890.5	936.7	990.1	1045.2	1111.0
12.5°	775.8	777.6	782.9	794.0	817.6	820.7	854.9	907.8	970.1	1038.6	1119.0
15°	774.5	778.0	778.5	784.2	803.8	805.1	836.7	889.2	957.6	1037.2	1131.0
17.5°	787.8	790.5	786.5	790.0	806.5	808.7	833.6	880.3	953.6	1043.0	1151.5
20°	823.4	825.6	813.6	808.7	820.7	822.5	846.9	886.1	957.6	1055.0	1179.5
22.5°	899.0	900.3	870.9	850.9	851.8	852.7	874.1	909.6	973.2	1076.8	1215.1
25°	1016.8	1015.9	969.2	930.5	908.3	903.4	917.6	947.9	999.4	1105.7	1260.8
27.5°	1154.6	1147.9	1101.2	1043.4	995.0	987.9	984.8	997.7	1036.8	1143.9	1316.9
30°	1310.2	1304.0	1253.7	1178.2	1111.0	1099.5	1070.1	1063.4	1092.3	1195.9	1394.7
32.5°	1480.9	1476.9	1416.9	1325.3	1235.5	1222.2	1172.8	1155.0	1177.7	1274.6	1503.1
35°	1624.1	1620.5	1570.7	1476.5	1366.7	1350.2	1300.0	1280.0	1291.5	1375.5	1645.0
37.5°	1753.4	1751.7	1709.0	1634.7	1521.4	1501.4	1444.9	1438.2	1436.0	1508.5	1817.0
40°	1873.5	1869.0	1824.6	1785.5	1701.4	1683.2	1633.4	1627.6	1610.7	1672.1	2011.8
42.5°	2006.4	1994.9	1930.4	1912.2	1889.5	1874.4	1844.6	1845.5	1808.1	1856.6	2218.0
45°	2114.9	2108.2	2042.0	2031.3	2055.8	2049.5	2075.3	2082.0	2009.5	2050.0	2432.3
47.5°	2231.4	2225.2	2169.1	2161.6	2227.8	2229.6	2320.7	2323.0	2206.0	2250.9	2647.1
50°	2375.0	2366.1	2310.5	2319.8	2394.1	2400.8	2567.5	2552.4	2387.0	2455.0	2860.0
52.5°	2469.7	2475.0	2463.0	2478.1	2579.5	2585.7	2810.2	2771.5	2566.1	2656.4	3069.0
55°	2539.5	2550.1	2587.5	2622.2	2775.1	2781.3	3039.2	2980.1	2714.6	2843.1	3265.5
57.5°	2629.3	2614.2	2684.0	2751.5	2960.9	2977.4	3261.9	3181.0	2846.2	3004.1	3400.2
60°	2758.2	2747.5	2801.8	2901.8	3169.0	3195.2	3497.6	3362.0	2942.7	3131.7	3426.4
62.5°	3019.6	2993.0	3001.4	3089.9	3431.3	3466.0	3763.4	3519.8	2990.7	3181.5	3285.9
65°	3410.4	3364.6	3321.9	3383.3	3800.8	3835.0	4063.5	3643.8	2972.9	3085.0	2912.9
67.5°	3902.6	3857.2	3804.8	3862.6	4344.9	4372.1	4433.9	3713.6	2832.9	2713.3	2253.6
70°	4308.5	4291.6	4354.3	4592.1	5214.1	5215.0	4908.7	3655.8	2449.2	1923.7	1304.0
72.5°	4254.7	4244.5	4574.8	5310.1	6309.6	6286.0	5358.1	3218.4	1649.9	867.8	488.6
75°	3490.4	3556.7	4068.4	5297.2	6703.0	6699.9	5082.9	2046.0	682.4	359.7	252.5
77.5°	1871.7	1976.6	2641.3	3911.0	5232.8	5311.5	3573.6	715.8	293.0	230.3	174.7
80°	610.4	702.0	1052.8	1991.3	3400.2	3385.5	1531.6	281.0	200.5	163.2	120.9
82.5°	259.2	269.9	470.4	940.3	1745.0	1717.9	487.7	161.4	140.9	111.6	74.7
85°	101.4	113.4	207.6	434.8	755.8	739.3	176.1	80.0	90.3	72.9	44.5
87.5°	33.3	40.5	74.2	148.9	235.2	226.7	43.1	27.6	39.1	33.3	16.0
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°	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9
2.5°	1105.2	1112.4	1120.8	1133.2	1143.9	1152.8	1162.1	1167.9	1170.1	1176.8	1176.4
5°	1113.2	1128.8	1149.7	1170.1	1190.2	1202.2	1212.8	1218.2	1223.1	1226.6	1227.5
7.5°	1126.6	1146.6	1179.5	1206.2	1223.1	1232.8	1239.9	1238.2	1239.9	1240.8	1242.2
10°	1138.1	1166.1	1205.3	1230.6	1243.5	1244.0	1242.2	1235.9	1232.8	1233.3	1234.2
12.5°	1151.9	1183.0	1225.3	1246.6	1250.2	1240.4	1232.8	1222.2	1218.2	1216.4	1215.5
15°	1170.6	1206.2	1247.1	1255.1	1246.2	1233.7	1220.8	1203.5	1194.6	1187.5	1189.7
17.5°	1193.3	1232.4	1264.0	1258.2	1239.1	1218.6	1197.7	1171.5	1153.3	1145.7	1146.1
20°	1224.8	1260.0	1276.8	1251.5	1222.6	1191.5	1155.9	1123.9	1107.0	1099.5	1098.6
22.5°	1263.1	1296.9	1289.3	1239.9	1199.0	1149.3	1104.8	1081.2	1072.8	1067.5	1068.3
25°	1308.9	1337.8	1298.2	1223.1	1160.4	1093.2	1059.0	1051.4	1047.4	1043.4	1043.4
27.5°	1368.4	1384.0	1304.9	1198.2	1099.9	1033.7	1021.2	1022.5	1021.2	1014.5	1015.9
30°	1447.1	1444.0	1311.1	1157.7	1030.5	979.9	980.8	986.5	987.4	983.0	985.2
32.5°	1550.7	1519.1	1314.2	1105.2	964.3	932.7	933.6	939.9	944.3	936.7	940.3
35°	1676.1	1606.7	1309.3	1039.4	913.2	887.8	881.2	882.9	884.3	877.2	882.1
37.5°	1822.4	1705.0	1287.5	966.5	870.9	843.8	829.6	817.6	810.5	803.8	808.3
40°	1982.9	1812.1	1247.5	895.4	823.8	797.1	775.8	753.1	729.1	720.2	724.2
42.5°	2150.9	1922.4	1199.0	827.4	769.6	747.8	725.1	692.2	656.2	638.0	640.2
45°	2325.2	2035.3	1151.5	760.2	714.0	704.7	678.4	638.9	599.7	576.6	574.8
47.5°	2495.9	2142.0	1081.7	692.7	662.0	672.2	651.8	615.3	571.7	535.3	531.3
50°	2659.1	2242.0	967.4	624.2	619.8	662.4	642.9	590.4	540.6	493.9	489.9
52.5°	2820.9	2323.0	821.1	562.0	597.1	659.8	631.3	573.5	512.6	463.7	458.4
55°	2958.3	2364.8	680.2	508.6	564.2	637.1	617.5	553.5	473.0	421.0	416.6
57.5°	3036.5	2331.0	562.8	456.1	518.8	599.7	594.0	510.8	425.9	385.9	380.6
60°	3002.7	2194.0	466.8	410.4	475.7	559.3	553.1	468.6	389.9	352.1	346.8
62.5°	2816.5	1933.1	390.8	370.3	436.6	517.9	512.2	436.1	362.3	325.9	320.1
65°	2441.2	1572.5	331.7	337.0	397.0	468.1	476.6	409.0	340.6	305.0	299.2
67.5°	1861.9	1139.0	285.4	308.1	358.3	419.2	443.7	389.5	322.3	288.5	283.2
70°	1061.2	646.9	246.3	280.1	324.1	373.9	418.4	373.9	302.8	274.8	271.2
72.5°	402.4	297.0	213.0	252.1	291.2	335.7	390.3	349.4	280.1	259.2	255.6
75°	214.7	180.9	179.2	219.2	253.4	298.3	355.2	325.4	263.2	273.9	282.8
77.5°	146.3	128.0	149.8	187.6	212.1	257.0	317.9	289.0	228.1	227.2	209.4
80°	101.4	90.7	121.8	151.2	164.1	216.1	277.4	248.1	185.8	173.4	165.8
82.5°	60.9	59.1	91.1	112.9	116.0	166.7	229.9	208.1	152.0	132.5	133.4
85°	33.3	35.1	58.2	66.2	67.6	116.5	180.1	160.9	116.9	98.3	99.1
87.5°	9.3	12.0	21.3	26.2	32.5	60.5	107.1	95.6	58.7	40.9	40.9
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)