

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: P450846

Luminaire Tested: **GALN-SA1C-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5685 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

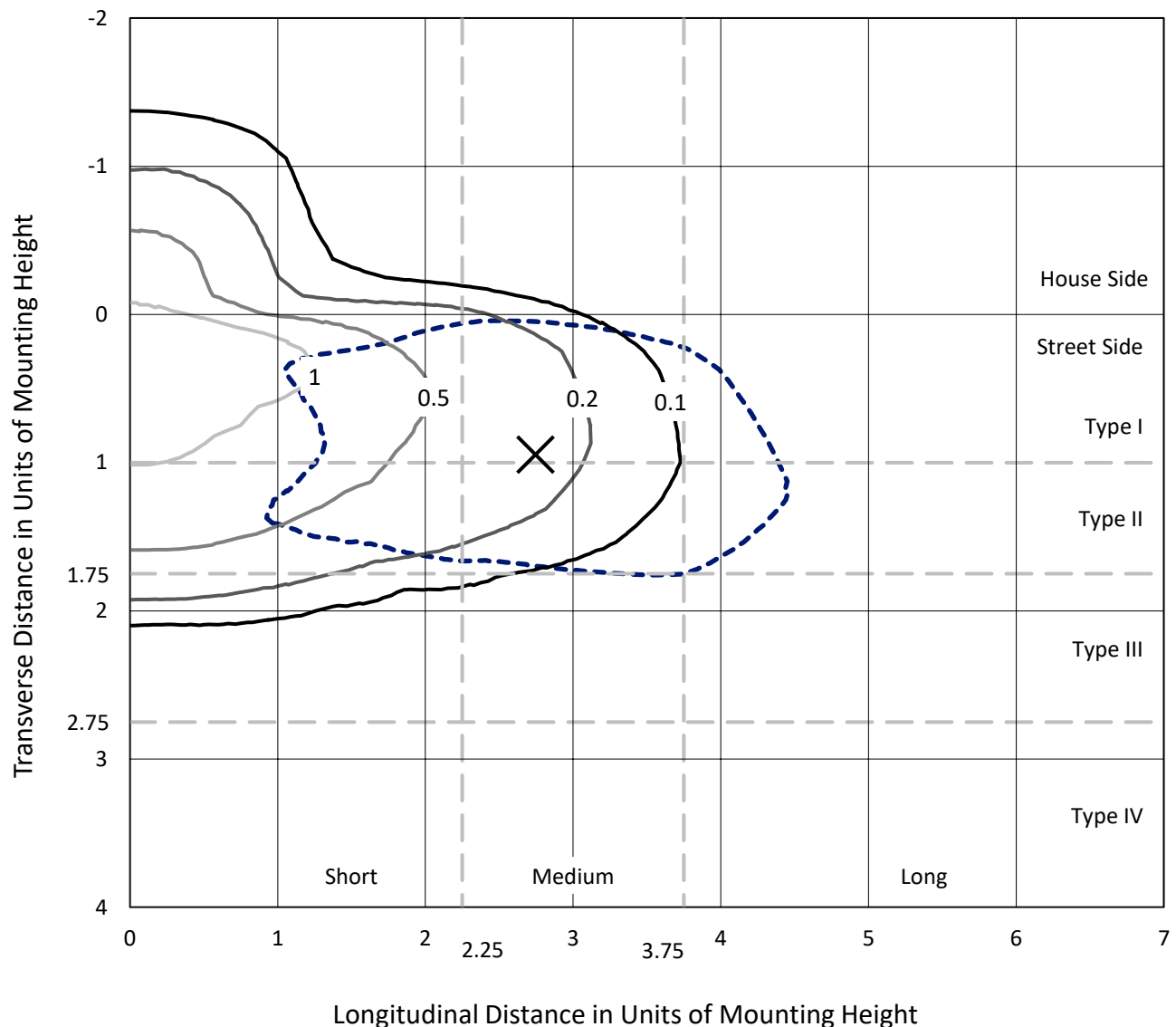


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

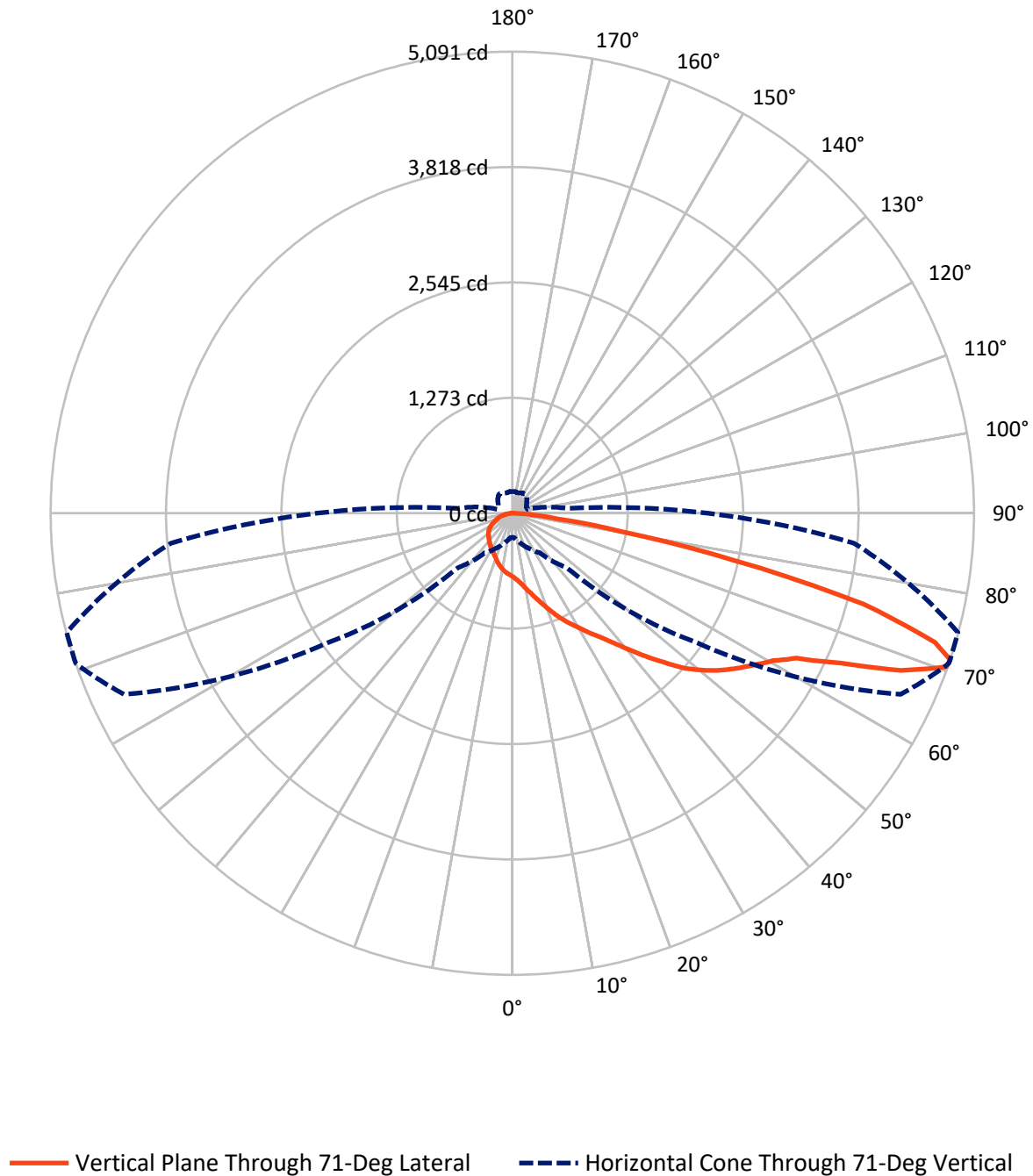


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1022.4	0.0	1022.4
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	4662.6	0.0	4662.6
	% Fixture	82.0	0.0	82.0
Total	Lumens	5685.0	0.0	5685.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	1.2
10°-20°	227.6	4.0
20°-30°	397.8	7.0
30°-40°	591.6	10.4
40°-50°	871.7	15.3
50°-60°	1220.4	21.5
60°-70°	1364.9	24.0
70°-80°	833.8	14.7
80°-90°	107.2	1.9
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°	5685.0	100.0
0°-180°	5685.0	100.0

Coefficient of Utilization



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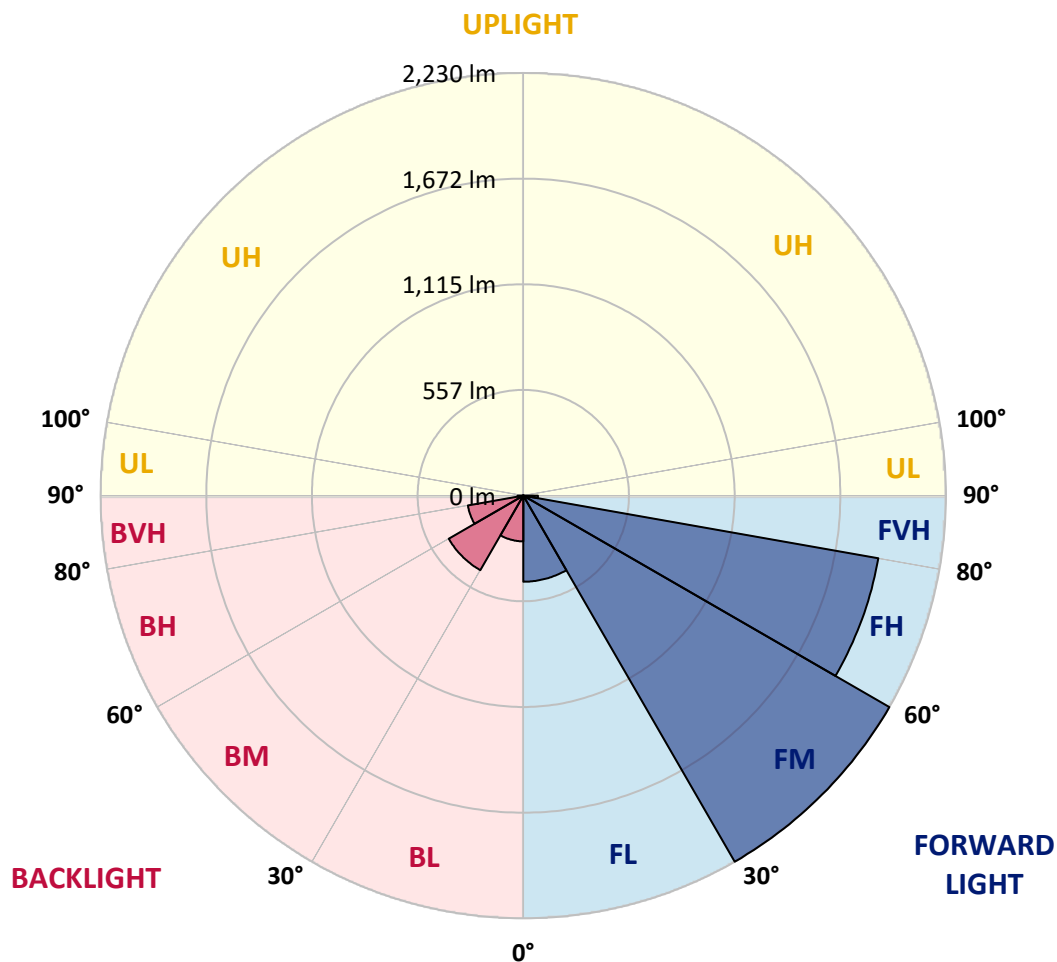
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	454.2	8.0			
FM	(30°-60°)	2229.5	39.2			
FH	(60°-80°)	1901.6	33.4			G2/5000
FVH	(80°-90°)	77.2	1.4			G1/100
BL	(0°-30°)	241.2	4.2	B1/500		
BM	(30°-60°)	454.1	8.0	B1/1000		
BH	(60°-80°)	297.1	5.2	B1/500		G1/500
BVH	(80°-90°)	30.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	697.7	697.7	697.7	697.7	697.7	697.7	697.7	697.7	697.7	697.7	697.7
2.5°	774.6	770.8	771.1	765.8	759.0	751.5	740.8	731.5	724.0	719.6	706.8
5°	858.3	854.6	849.9	838.3	833.3	814.9	791.5	770.2	754.0	744.9	719.3
7.5°	926.1	925.2	923.9	917.4	904.6	878.9	859.0	822.1	798.0	780.8	737.1
10°	968.0	969.6	970.5	971.7	966.4	953.0	925.5	878.9	848.3	826.5	760.2
12.5°	989.2	990.8	996.1	1007.7	1014.9	1013.3	990.8	945.2	903.0	874.3	784.9
15°	1002.4	1004.9	1014.2	1029.6	1053.6	1068.9	1058.0	1015.8	969.6	935.5	814.3
17.5°	1016.7	1019.6	1029.9	1051.7	1083.3	1116.4	1128.3	1092.0	1041.7	1001.1	847.1
20°	1024.9	1028.6	1043.3	1072.0	1108.9	1157.0	1196.4	1177.3	1122.4	1077.4	884.9
22.5°	1038.0	1041.1	1053.6	1084.2	1128.3	1188.6	1264.5	1260.5	1212.0	1153.9	926.4
25°	1073.6	1078.6	1084.9	1103.3	1145.8	1220.8	1321.1	1349.2	1298.9	1233.9	964.6
27.5°	1140.8	1144.9	1144.5	1147.0	1171.1	1248.6	1370.1	1437.0	1385.1	1314.8	1001.4
30°	1217.3	1218.9	1220.2	1214.5	1219.8	1277.0	1415.1	1523.9	1472.0	1397.9	1033.6
32.5°	1310.5	1313.6	1303.0	1288.6	1284.2	1319.2	1452.3	1610.7	1574.8	1482.3	1065.5
35°	1420.4	1428.6	1407.0	1381.7	1363.9	1379.8	1502.3	1699.5	1680.1	1590.1	1107.7
37.5°	1546.0	1556.0	1536.0	1486.4	1461.1	1465.4	1567.6	1809.1	1813.2	1712.9	1170.5
40°	1648.8	1662.0	1662.6	1592.3	1553.9	1558.9	1650.4	1927.2	1973.8	1864.8	1244.5
42.5°	1716.7	1729.5	1742.9	1701.7	1661.3	1689.8	1747.0	2055.4	2154.4	2049.1	1347.9
45°	1791.0	1802.6	1810.1	1791.3	1768.8	1842.6	1863.5	2191.6	2346.9	2255.0	1461.1
47.5°	1877.3	1890.1	1897.3	1879.4	1871.0	1976.6	1989.1	2318.8	2552.5	2455.0	1586.0
50°	1992.2	2001.9	1998.2	1986.9	1985.1	2079.4	2109.7	2437.8	2722.1	2670.3	1715.7
52.5°	2135.3	2146.9	2151.0	2135.0	2127.8	2152.8	2206.9	2546.2	2876.5	2855.3	1854.1
55°	2221.9	2240.3	2302.2	2327.2	2344.4	2247.8	2311.6	2665.9	3014.9	3050.2	2002.9
57.5°	2111.0	2134.7	2273.1	2398.1	2559.7	2485.3	2460.0	2790.9	3153.3	3239.3	2181.0
60°	1840.4	1845.7	2024.1	2254.4	2579.4	2790.6	2769.6	2989.6	3303.3	3429.9	2415.6
62.5°	1276.7	1288.0	1498.9	1866.3	2336.3	2900.6	3296.4	3332.7	3518.3	3715.1	2759.6
65°	658.4	643.7	835.8	1173.0	1761.3	2639.3	3723.3	3963.5	3984.5	4161.3	3244.0
67.5°	405.3	411.8	501.8	684.9	1041.4	1918.2	3678.6	4734.4	4624.1	4709.1	3693.6
70°	304.3	312.5	374.3	468.7	634.9	1096.7	2958.4	4921.2	5075.3	5053.4	3830.4
71°	264.7	273.1	337.5	426.5	533.4	846.5	2492.5	4725.6	5090.9	5087.1	3778.9
72.5°	225.6	230.9	281.2	361.2	449.6	593.4	1872.6	4238.2	4873.7	4998.4	3594.8
75°	177.2	181.2	203.7	275.6	354.0	364.3	1004.9	3177.4	4002.9	4240.4	2992.7
77.5°	144.4	147.2	158.7	204.7	273.1	258.1	527.1	2068.2	2507.8	2746.8	1762.9
80°	114.7	117.8	124.7	138.7	204.7	184.0	251.5	1048.0	1211.4	1208.9	703.7
82.5°	89.1	90.0	98.1	101.9	140.0	130.6	136.2	443.7	491.5	507.7	254.0
85°	56.2	59.1	86.9	78.1	83.7	76.6	67.2	176.2	217.2	214.0	101.5
87.5°	17.2	18.1	29.4	33.1	37.2	33.4	24.7	51.9	63.4	68.7	25.3
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°	697.7	697.7	697.7	697.7	697.7	697.7	697.7	697.7	697.7	697.7	697.7
2.5°	701.8	698.3	686.2	676.2	666.8	656.5	647.7	645.2	643.0	642.1	641.8
5°	708.3	698.0	674.0	654.3	638.7	624.3	615.2	611.2	607.1	607.1	608.4
7.5°	717.7	699.0	661.8	632.4	612.7	599.3	592.7	592.1	593.0	594.0	594.3
10°	728.0	698.3	644.0	607.4	589.9	583.7	584.0	589.3	594.3	598.0	598.7
12.5°	738.0	694.6	623.0	584.0	572.7	574.0	582.7	594.6	604.3	609.6	609.9
15°	749.3	688.7	597.7	561.8	558.1	567.7	584.0	602.1	616.8	625.5	626.5
17.5°	758.7	678.7	571.2	540.2	544.9	562.7	585.2	608.7	626.5	637.4	639.3
20°	769.3	665.9	543.7	519.6	533.1	557.1	582.7	608.0	626.5	637.1	639.6
22.5°	777.7	647.7	517.4	502.7	522.4	550.2	574.3	594.6	609.6	615.2	619.0
25°	781.1	624.9	492.7	489.0	514.0	539.0	555.2	566.8	571.5	570.9	572.4
27.5°	779.3	598.7	471.5	478.1	503.4	521.5	529.6	528.7	520.2	512.4	516.2
30°	771.5	567.4	453.7	466.8	489.6	499.6	498.4	486.2	470.3	455.6	456.5
32.5°	757.4	533.7	437.1	454.0	470.3	474.6	466.2	450.3	427.4	408.4	405.6
35°	745.5	501.5	422.4	439.3	450.9	448.7	440.6	419.9	399.3	382.5	379.6
37.5°	743.7	474.0	408.4	422.8	429.3	426.2	416.2	398.7	391.2	378.4	376.8
40°	753.7	454.6	394.0	405.3	408.4	405.9	394.9	384.9	391.8	388.7	388.7
42.5°	780.8	444.3	381.2	387.8	390.3	392.1	384.3	375.9	384.3	370.0	365.3
45°	824.0	444.6	369.6	370.6	378.1	384.6	379.3	366.8	362.5	333.7	328.1
47.5°	887.4	455.3	360.3	354.3	367.8	378.7	371.2	353.1	333.7	314.6	311.2
50°	961.4	474.3	351.8	337.5	354.0	371.2	365.6	344.3	324.3	312.8	310.6
52.5°	1043.6	498.4	341.5	318.7	337.1	367.8	366.8	343.1	315.6	307.8	305.9
55°	1145.2	522.1	328.7	296.8	322.1	365.0	363.4	332.8	313.7	308.1	307.5
57.5°	1263.3	556.5	310.3	274.7	305.0	353.4	350.0	326.5	307.5	303.4	303.1
60°	1453.6	609.9	284.0	254.3	287.5	333.1	337.5	315.9	297.5	296.5	296.2
62.5°	1703.8	684.9	256.8	233.4	267.2	306.8	319.3	301.5	286.8	291.5	292.1
65°	2049.4	748.0	228.7	215.6	244.7	281.5	302.1	288.1	275.0	284.0	284.0
67.5°	2274.7	749.3	203.1	197.2	221.8	260.3	284.0	272.2	259.7	275.0	275.6
70°	2227.8	656.5	181.9	177.8	199.7	237.5	264.0	254.7	240.3	254.0	249.0
71°	2152.2	604.9	173.4	170.3	190.9	226.5	254.7	246.8	232.5	241.5	238.7
72.5°	2031.6	525.2	159.7	160.3	177.8	212.8	241.5	233.4	219.0	224.0	223.1
75°	1717.3	458.7	136.5	139.4	152.8	189.4	215.3	209.0	194.3	194.3	193.4
77.5°	1073.6	320.6	113.4	115.0	129.7	162.2	185.0	179.7	165.6	160.9	159.7
80°	400.6	165.6	88.7	90.6	99.7	127.8	153.1	148.1	133.7	128.4	123.4
82.5°	151.5	83.1	65.3	63.7	73.4	97.5	120.0	114.0	102.8	90.0	86.2
85°	57.2	41.2	40.0	38.7	43.1	57.8	74.4	73.1	61.2	52.2	51.2
87.5°	15.0	13.4	15.6	11.6	12.2	10.9	11.2	4.7	2.2	0.9	0.6
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)