

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: P452572

Luminaire Tested: **GALN-SA3C-740-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21193 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

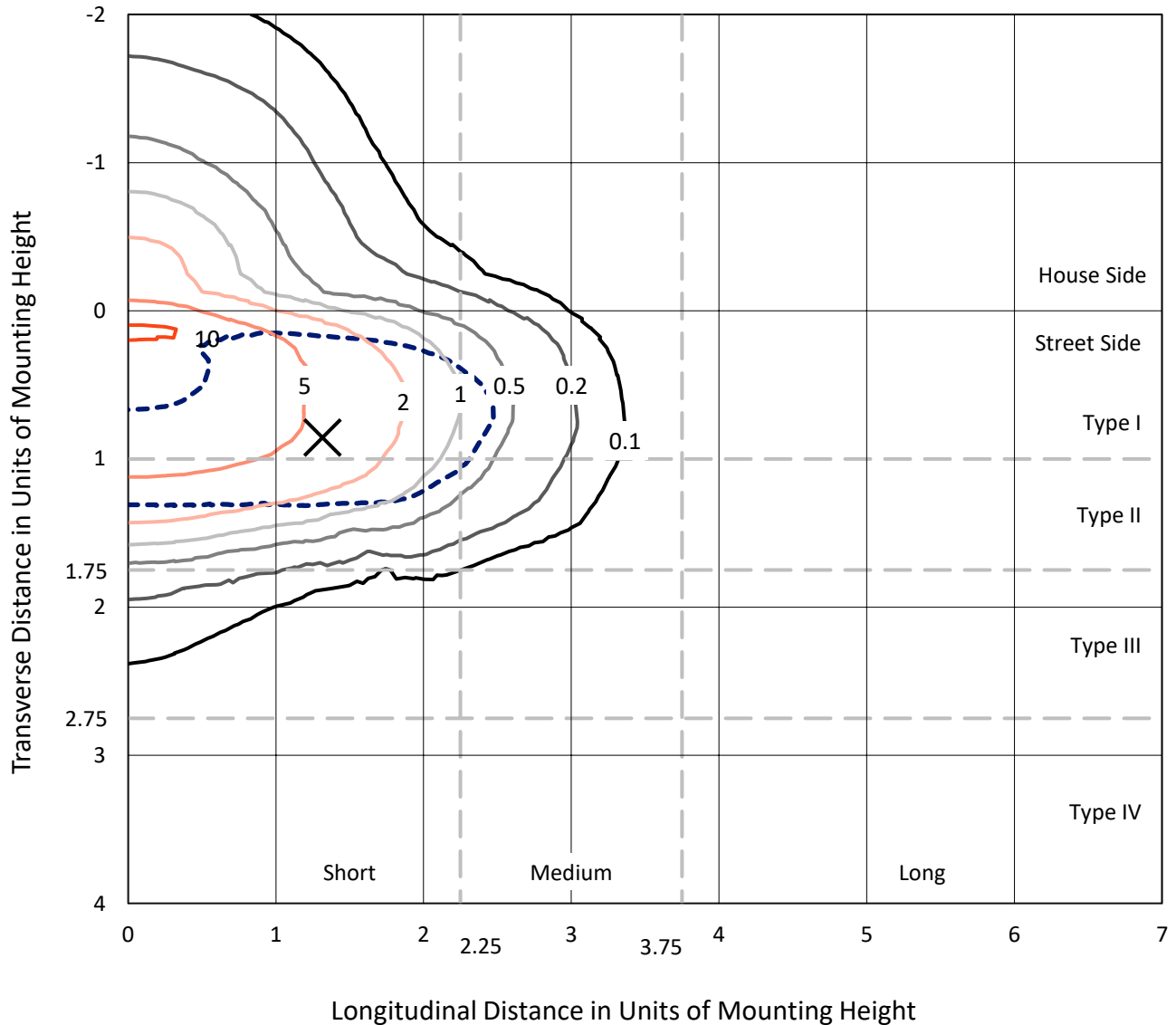
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452572
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Iso-Footcandle Lines of Horizontal Illumination

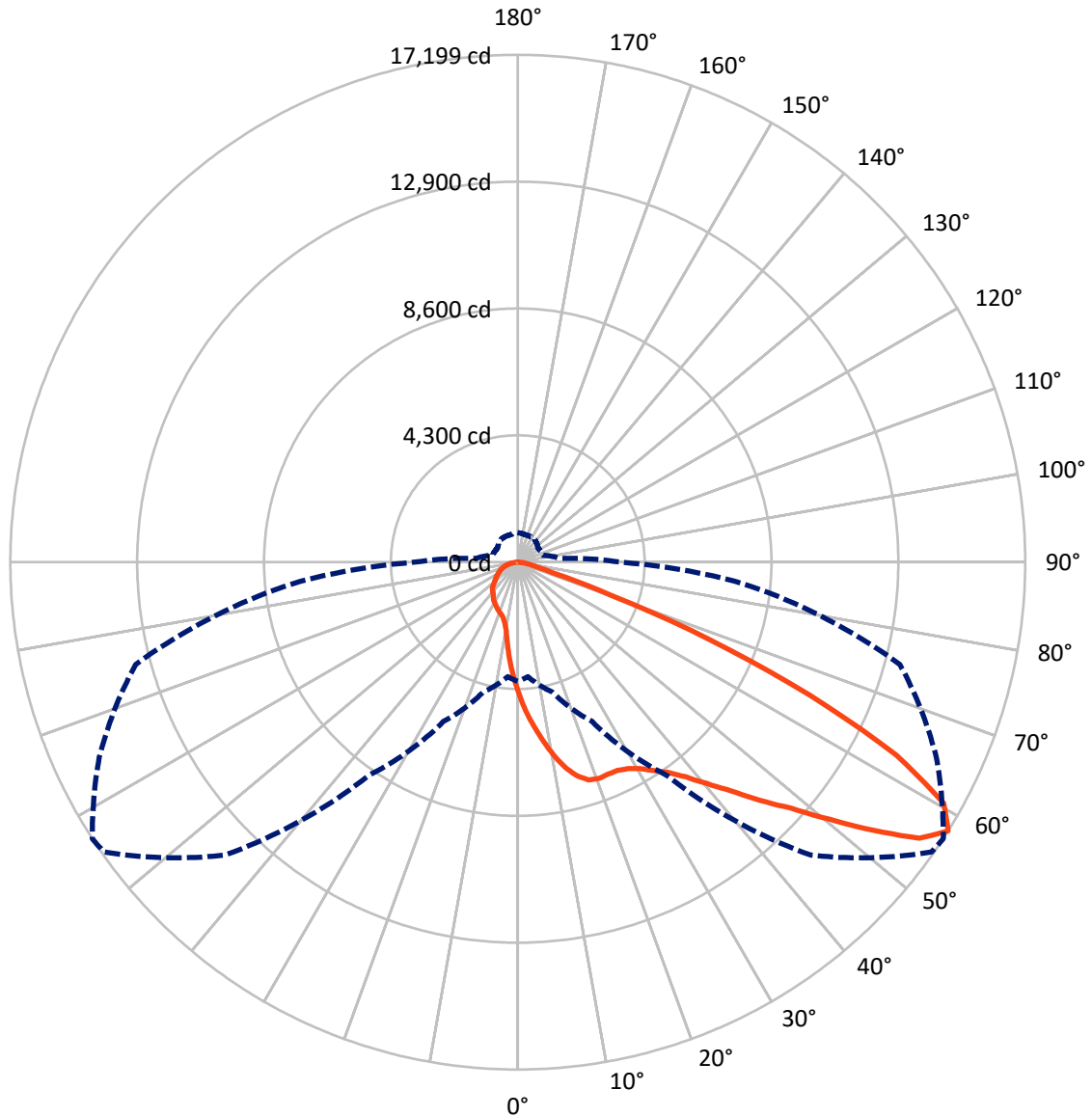
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

REPORT NUMBER: P452572
CATALOG NUMBER: GALN-SA3C-740-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3222.9	0.0	3222.9
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	17970.1	0.0	17970.1
	% Fixture	84.8	0.0	84.8
Total	Lumens	21193.0	0.0	21193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.9	2.0
10°-20°	1261.1	6.0
20°-30°	2094.1	9.9
30°-40°	3154.3	14.9
40°-50°	4735.9	22.3
50°-60°	5308.3	25.0
60°-70°	3106.7	14.7
70°-80°	918.9	4.3
80°-90°	185.7	0.9
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°	21193.0	100.0
0°-180°	21193.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452572

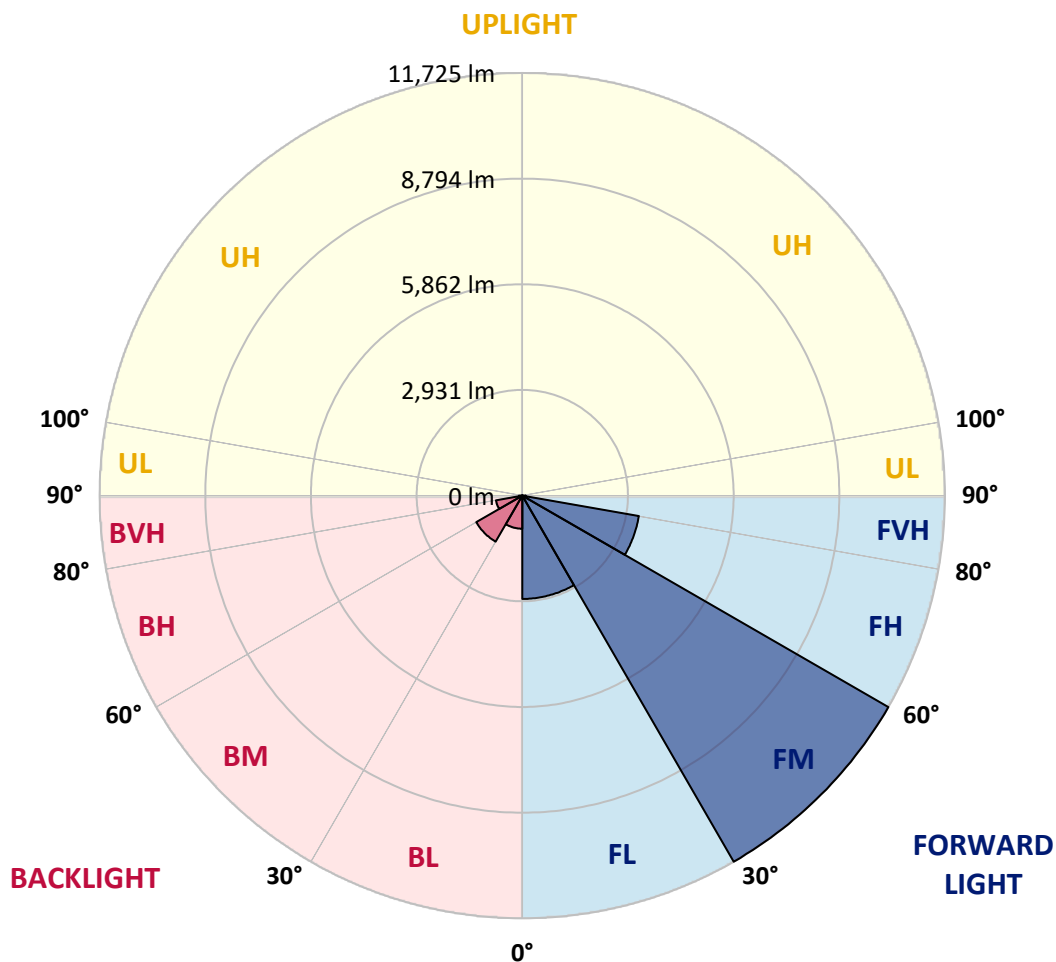
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2864.8	13.5			
FM	(30°-60°)	11724.9	55.3			
FH	(60°-80°)	3284.1	15.5			G2/5000
FVH	(80°-90°)	96.4	0.5			G1/100
BL	(0°-30°)	918.3	4.3	B2/1000		
BM	(30°-60°)	1473.6	7.0	B2/2500		
BH	(60°-80°)	741.6	3.5	B2/1000		G2/1000
BVH	(80°-90°)	89.4	0.4			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 II Short





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CATALOG NUMBER: GALN-SA3C-740-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4452.4	4452.4	4452.4	4452.4	4452.4	4452.4	4452.4	4452.4	4452.4	4452.4	4452.4
2.5°	5532.4	5472.1	5424.6	5382.8	5328.3	5180.9	5033.6	5031.3	4914.1	4733.1	4547.5
5°	6433.8	6352.6	6363.1	6233.1	6103.2	5889.8	5577.7	5561.4	5312.0	4973.3	4628.7
7.5°	7020.8	7022.0	6989.5	6915.3	6774.9	6532.4	6178.6	6098.6	5751.7	5237.8	4721.5
10°	6990.7	7022.0	7076.5	7140.3	7183.2	7063.8	6741.3	6643.8	6192.5	5558.0	4824.8
12.5°	6589.3	6638.0	6715.7	6875.8	7134.5	7331.7	7221.5	7142.6	6703.0	5877.0	4938.5
15°	6338.7	6367.7	6410.6	6518.5	6796.9	7269.1	7554.5	7512.7	7184.4	6237.8	5066.1
17.5°	6262.1	6291.1	6305.1	6371.2	6569.6	7053.3	7685.6	7759.8	7611.3	6569.6	5194.9
20°	6338.7	6352.6	6352.6	6392.1	6547.5	6926.9	7679.8	7829.4	7961.7	6967.5	5315.5
22.5°	6539.4	6545.2	6537.1	6551.0	6667.0	6961.7	7625.2	7810.9	8244.7	7305.1	5409.5
25°	6865.4	6874.7	6821.3	6788.8	6873.5	7114.8	7655.4	7825.9	8466.3	7627.6	5472.1
27.5°	7235.5	7247.1	7182.1	7106.7	7146.1	7303.9	7773.7	7926.9	8632.2	7945.4	5511.6
30°	7689.0	7693.7	7584.6	7494.1	7468.6	7585.8	7975.6	8118.3	8838.7	8320.1	5570.7
32.5°	8153.1	8187.9	8047.5	7919.9	7877.0	7912.9	8273.7	8411.8	9084.6	8722.7	5665.9
35°	8784.2	8790.0	8621.8	8466.3	8324.8	8371.2	8655.4	8755.2	9424.5	9187.9	5800.4
37.5°	9571.9	9625.2	9393.2	9103.2	8929.2	8861.9	9117.1	9226.2	9901.3	9758.6	6003.4
40°	10446.6	10466.3	10267.9	10086.9	9769.1	9574.2	9750.5	9868.8	10489.5	10439.6	6238.9
42.5°	10996.4	11039.4	11054.5	11035.9	10796.9	10469.8	10537.1	10592.7	11185.5	11078.8	6480.2
45°	11182.1	11245.9	11461.6	11918.7	11944.2	11621.7	11465.1	11518.5	11944.2	11723.8	6711.1
47.5°	10874.6	10983.7	11381.6	12318.9	13020.8	13045.2	12573.0	12455.8	12635.6	12258.6	6878.1
50°	10080.0	10103.2	10712.2	12069.5	13525.4	14405.9	13917.5	13699.4	13292.3	12654.2	6993.0
52.5°	8850.3	8877.0	9387.4	10910.6	13214.5	15357.2	15490.6	15100.8	13959.3	12961.6	7068.4
55°	6569.6	6723.9	7285.3	8757.5	11741.2	15267.9	16741.2	16519.6	14765.6	13205.2	7186.7
57.5°	4039.4	3897.9	4563.8	5958.2	8830.6	14040.5	17127.5	17199.4	15653.0	13409.4	7385.1
60°	1858.5	1886.3	2161.2	3073.1	5382.8	10983.7	16132.1	16586.9	16143.7	13402.5	7435.0
62.5°	1280.7	1255.2	1185.6	1349.2	2454.7	6946.6	13626.4	14396.7	15160.0	12986.0	7236.6
65°	1145.0	1119.5	984.9	939.7	1127.6	3027.8	9906.0	10878.1	12764.4	11935.0	6742.4
67.5°	1069.6	1034.8	895.6	807.4	805.1	1205.3	5841.0	7011.6	9467.5	10090.4	5842.2
70°	990.7	962.9	824.8	727.4	685.6	757.5	2567.3	3360.8	6147.3	7271.4	4551.0
72.5°	911.8	879.3	755.2	650.8	596.3	567.3	983.8	1279.6	3473.3	4359.6	2790.0
75°	797.0	780.7	675.2	589.3	530.2	458.2	624.1	712.3	1661.2	2002.3	1400.2
77.5°	697.2	679.8	599.8	515.1	472.2	372.4	443.2	483.8	700.7	812.1	632.2
80°	510.4	527.8	505.8	454.8	421.1	292.3	298.1	331.8	416.5	460.6	386.3
82.5°	323.7	356.1	389.8	350.3	319.0	230.9	206.5	219.3	284.2	301.6	171.7
85°	135.7	138.1	226.2	213.5	182.1	136.9	124.1	131.1	152.0	158.9	80.0
87.5°	52.2	51.0	80.0	74.2	56.8	39.4	39.4	44.1	60.3	55.7	25.5
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°	4452.4	4452.4	4452.4	4452.4	4452.4	4452.4	4452.4	4452.4	4452.4	4452.4	4452.4
2.5°	4467.5	4385.1	4221.5	4018.5	3870.0	3703.0	3555.7	3450.1	3410.7	3392.1	3357.3
5°	4464.0	4301.6	3962.9	3607.9	3322.5	3030.1	2783.0	2623.0	2609.0	2502.3	2491.9
7.5°	4465.2	4216.9	3677.5	3155.4	2720.4	2421.1	2216.9	2163.6	2099.8	2083.5	2091.6
10°	4468.6	4109.0	3371.2	2707.6	2286.5	2090.5	2013.9	1993.0	1995.3	2002.3	2003.5
12.5°	4473.3	4004.6	3053.3	2367.7	2042.9	1961.7	1953.6	1972.1	1991.9	2006.9	2010.4
15°	4479.1	3885.1	2743.6	2094.0	1921.1	1914.1	1940.8	1972.1	2000.0	2022.0	2025.5
17.5°	4472.1	3745.9	2483.7	1925.7	1853.8	1887.5	1931.5	1971.0	1996.5	2017.4	2019.7
20°	4455.9	3590.5	2233.2	1807.4	1812.1	1866.6	1914.1	1951.3	1979.1	1989.5	1997.7
22.5°	4393.2	3404.8	2015.1	1715.8	1762.2	1837.6	1894.4	1916.5	1885.1	1863.1	1868.9
25°	4286.5	3163.6	1812.1	1641.5	1716.9	1797.0	1855.0	1801.6	1776.1	1766.8	1771.4
27.5°	4153.1	2899.1	1658.9	1563.8	1658.9	1751.7	1735.5	1726.2	1714.6	1699.5	1703.0
30°	4009.3	2640.4	1529.0	1503.5	1596.3	1649.6	1656.6	1671.7	1658.9	1635.7	1645.0
32.5°	3875.8	2396.7	1430.4	1452.4	1552.2	1544.1	1596.3	1613.7	1554.5	1476.8	1480.3
35°	3762.2	2170.5	1356.1	1402.5	1476.8	1480.3	1532.5	1472.1	1408.3	1371.2	1373.5
37.5°	3676.3	1994.2	1307.4	1359.6	1380.5	1424.6	1396.7	1365.4	1357.3	1331.8	1332.9
40°	3625.3	1839.9	1276.1	1326.0	1322.5	1352.7	1263.3	1294.7	1306.3	1298.1	1299.3
42.5°	3574.2	1730.8	1243.6	1279.6	1278.4	1219.2	1199.5	1226.2	1256.4	1259.9	1257.5
45°	3533.6	1646.2	1210.0	1208.8	1232.0	1139.2	1133.4	1149.6	1192.6	1213.4	1212.3
47.5°	3488.4	1575.4	1158.9	1126.4	1133.4	1089.3	1080.0	1087.0	1139.2	1172.8	1182.1
50°	3431.5	1504.6	1095.1	1051.0	1022.0	1042.9	1045.2	1046.4	1098.6	1136.9	1145.0
52.5°	3386.3	1451.3	1022.0	989.6	954.8	1001.2	1018.6	1020.9	1052.2	1083.5	1089.3
55°	3413.0	1421.1	950.1	926.9	895.6	958.2	991.9	996.5	1003.5	1026.7	1030.2
57.5°	3493.0	1428.1	892.1	861.9	838.7	907.2	964.0	967.5	962.9	990.7	995.4
60°	3517.4	1424.6	849.2	790.0	776.1	852.7	923.4	930.4	929.2	969.8	978.0
62.5°	3415.3	1380.5	806.3	729.7	720.4	797.0	866.6	894.4	900.2	958.2	968.7
65°	3175.2	1290.0	749.4	665.9	665.9	737.8	812.1	850.3	866.6	944.3	955.9
67.5°	2858.4	1183.3	691.4	611.4	609.0	681.0	754.1	793.5	819.0	924.6	931.5
70°	2372.4	1039.4	619.5	552.2	552.2	617.2	683.3	730.9	768.0	887.5	887.5
72.5°	1625.3	864.3	532.5	484.9	486.1	546.4	613.7	667.0	711.1	813.2	815.5
75°	1027.8	675.2	437.4	413.0	417.6	474.5	544.1	599.8	687.9	803.9	807.4
77.5°	546.4	474.5	348.0	342.2	348.0	400.2	478.0	554.5	690.3	697.2	685.6
80°	353.8	336.4	274.9	263.3	265.7	322.5	425.8	526.7	554.5	561.5	536.0
82.5°	192.6	213.5	194.9	183.3	183.3	251.7	363.1	418.8	397.9	330.6	315.5
85°	82.4	99.8	100.9	88.2	84.7	155.5	243.6	228.5	212.3	203.0	200.7
87.5°	23.2	32.5	32.5	24.4	18.6	42.9	48.7	13.9	0.0	1.2	2.3
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)