

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: STREETWORKS

Report Number: P320125

Luminaire Tested: **GAN-SA1C-827-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5173 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

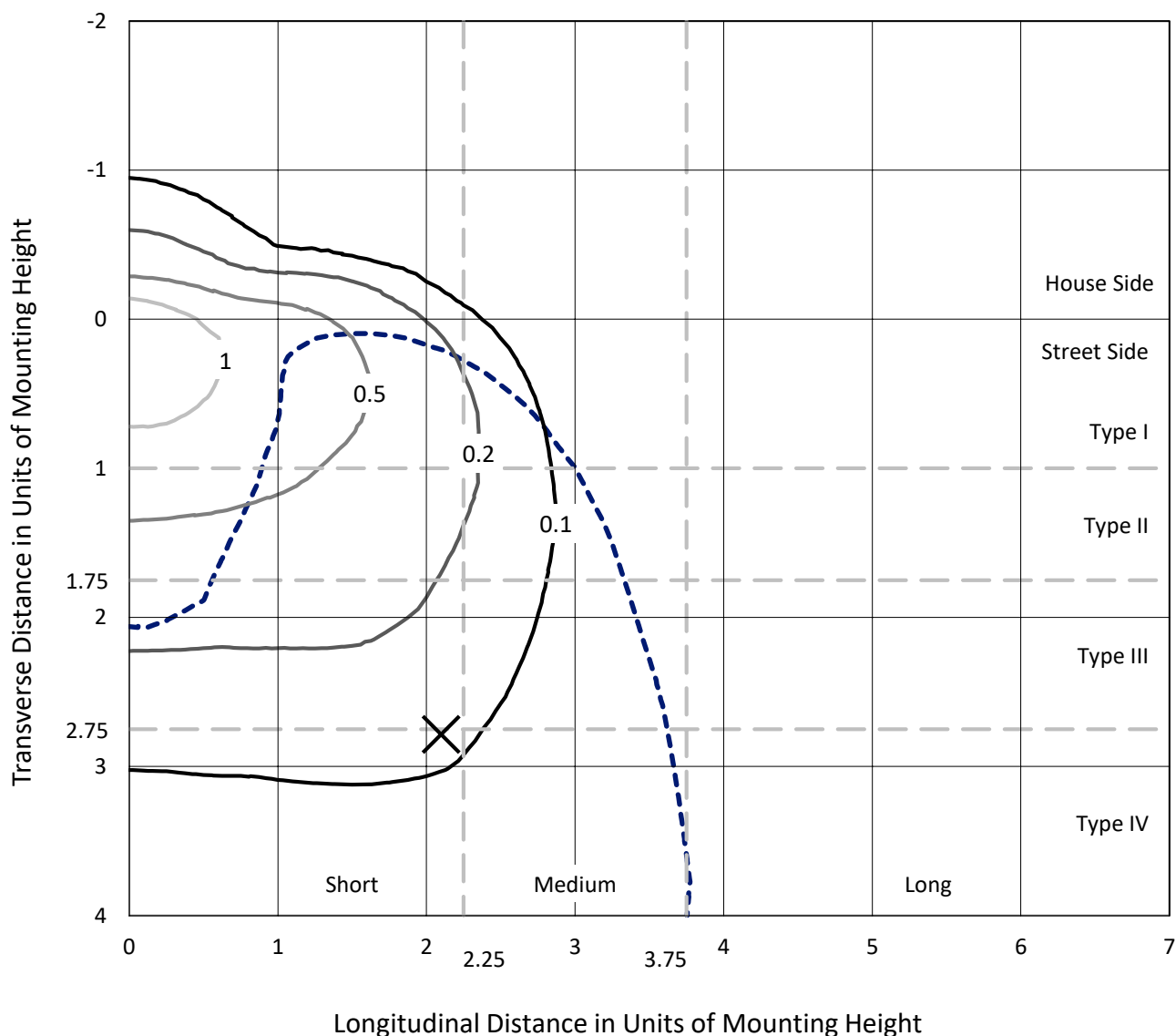
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

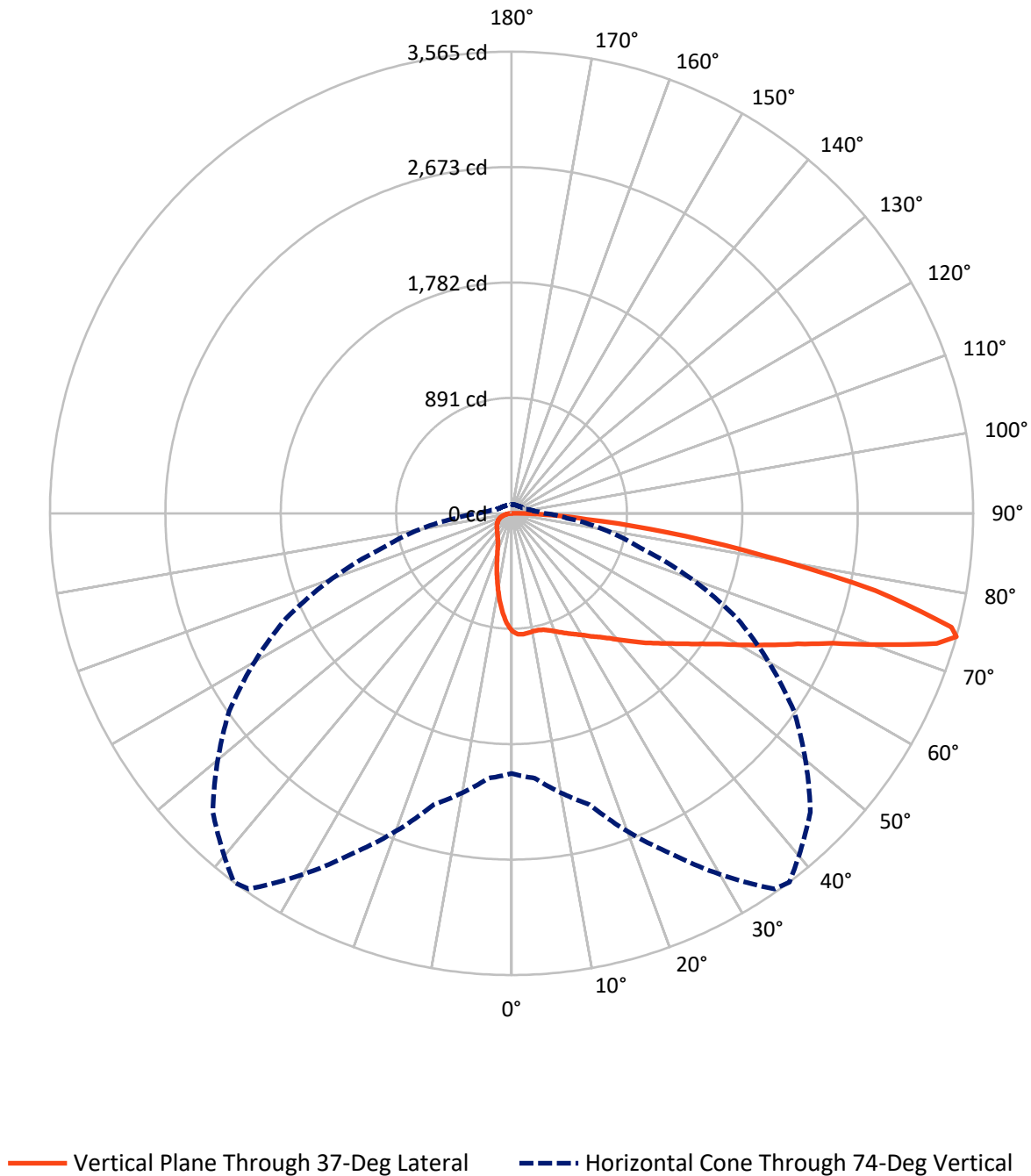
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	711.8	0.0	711.8
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	4461.2	0.0	4461.2
	% Fixture	86.2	0.0	86.2
Total	Lumens	5173.0	0.0	5173.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	1.6
10°-20°	205.7	4.0
20°-30°	317.0	6.1
30°-40°	461.0	8.9
40°-50°	678.5	13.1
50°-60°	952.8	18.4
60°-70°	1205.9	23.3
70°-80°	1061.9	20.5
80°-90°	210.0	4.1
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°	5173.0	100.0
0°-180°	5173.0	100.0

Coefficient of Utilization



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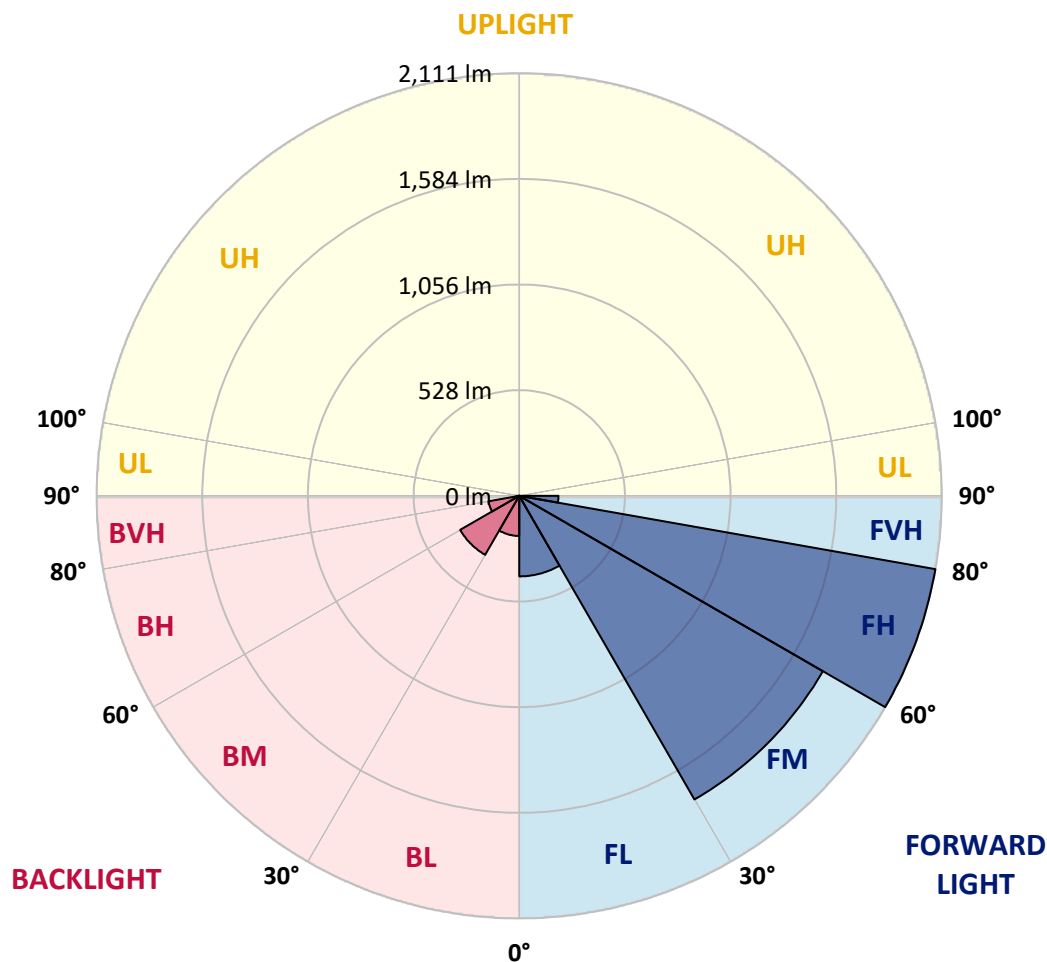
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	402.5	7.8			
FM	(30°-60°)	1751.6	33.9			
FH	(60°-80°)	2111.4	40.8			G2/5000
FVH	(80°-90°)	195.7	3.8			G2/225
BL	(0°-30°)	200.5	3.9	B1/500		
BM	(30°-60°)	340.6	6.6	B1/1000		
BH	(60°-80°)	156.5	3.0	B1/500		G1/500
BVH	(80°-90°)	14.2	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	911.5	911.5	911.5	911.5	911.5	911.5	911.5	911.5	911.5	911.5	911.5
2.5°	942.6	942.8	942.6	941.2	937.7	934.8	932.4	929.0	921.3	915.5	906.7
5°	951.6	950.5	949.7	947.0	941.5	938.2	933.7	927.1	914.6	902.9	888.7
7.5°	947.4	946.1	944.4	941.2	935.0	932.2	925.9	917.3	902.2	886.9	866.5
10°	934.4	934.1	933.3	932.6	927.3	925.1	919.3	910.2	895.2	876.7	852.8
12.5°	920.0	920.9	923.9	927.7	925.3	924.2	920.6	914.4	899.1	879.0	850.2
15°	910.9	913.5	921.3	931.3	933.3	933.0	932.1	928.0	911.8	889.6	856.1
17.5°	907.8	912.0	927.0	943.5	949.4	950.6	951.0	944.1	926.0	902.5	862.1
20°	913.5	918.8	940.6	963.4	972.7	973.4	971.8	959.8	939.5	913.6	865.4
22.5°	930.6	935.3	962.7	988.4	998.9	1000.0	995.1	976.9	953.7	926.8	869.9
25°	963.6	969.4	996.7	1022.4	1027.9	1028.1	1021.0	998.4	972.3	945.2	879.8
27.5°	1006.6	1012.4	1037.0	1062.2	1059.2	1057.6	1047.9	1025.3	996.6	970.5	897.2
30°	1054.5	1060.9	1084.2	1102.1	1095.1	1091.9	1084.0	1054.9	1030.3	1005.1	924.0
32.5°	1104.1	1109.9	1130.3	1142.5	1133.8	1132.3	1120.5	1093.9	1074.2	1058.0	967.4
35°	1154.9	1159.1	1179.1	1186.1	1174.4	1174.0	1170.8	1146.3	1134.0	1141.6	1030.5
37.5°	1206.8	1207.9	1225.1	1225.4	1222.0	1223.4	1226.9	1211.6	1215.0	1238.9	1112.5
40°	1253.1	1256.0	1268.4	1272.3	1278.3	1283.4	1300.7	1290.7	1317.4	1359.7	1214.5
42.5°	1287.4	1293.0	1312.9	1322.7	1342.2	1350.2	1374.7	1384.0	1437.9	1501.3	1335.9
45°	1316.4	1325.1	1357.0	1377.2	1410.2	1424.2	1459.2	1490.4	1574.0	1654.9	1463.6
47.5°	1347.7	1358.8	1398.7	1437.3	1482.2	1498.0	1561.6	1608.3	1719.2	1809.4	1584.0
50°	1393.8	1402.4	1441.4	1502.0	1558.0	1578.4	1666.4	1733.3	1866.8	1956.7	1688.4
52.5°	1458.1	1454.8	1487.8	1572.9	1648.0	1673.1	1778.3	1866.3	2016.4	2089.9	1776.6
55°	1522.8	1517.3	1540.5	1647.1	1753.0	1779.4	1901.5	1999.9	2158.8	2209.8	1844.2
57.5°	1594.8	1584.4	1603.9	1730.7	1872.5	1904.0	2039.4	2141.8	2298.7	2306.7	1887.2
60°	1668.9	1654.9	1676.8	1834.4	2024.3	2061.5	2200.8	2280.3	2430.6	2384.3	1901.1
62.5°	1733.8	1724.0	1757.7	1950.1	2195.4	2236.2	2359.4	2427.5	2560.7	2416.6	1851.2
65°	1790.5	1792.1	1850.4	2080.2	2386.2	2429.7	2541.2	2609.0	2663.1	2397.5	1734.4
67.5°	1858.1	1867.4	1966.9	2251.5	2626.3	2674.1	2805.8	2806.9	2720.4	2285.2	1504.4
70°	1956.7	1975.8	2127.0	2489.1	2967.8	3033.4	3135.1	2923.2	2640.0	1980.9	1183.7
72.5°	2044.1	2079.9	2297.4	2761.0	3384.0	3433.7	3327.7	2856.1	2304.2	1484.5	737.4
74°	2008.6	2052.9	2328.4	2894.9	3540.7	3564.6	3262.6	2660.4	1921.1	1028.1	428.6
75°	1932.1	1980.2	2283.2	2893.6	3520.8	3507.5	3105.6	2436.8	1582.2	701.2	285.2
77.5°	1559.3	1610.1	1923.9	2480.0	2886.9	2874.3	2385.6	1634.7	693.0	230.0	144.9
80°	906.5	945.4	1194.3	1574.9	1946.7	1969.4	1568.9	808.9	272.6	129.2	98.2
82.5°	402.7	429.5	576.9	804.0	1174.8	1204.1	821.6	423.8	168.4	78.5	59.0
85°	264.2	284.1	350.2	382.8	559.4	579.5	402.2	330.0	111.2	43.2	43.4
87.5°	190.1	209.2	260.2	227.2	256.7	243.1	218.8	305.4	44.6	24.6	14.6
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°	911.5	911.5	911.5	911.5	911.5	911.5	911.5	911.5	911.5	911.5	911.5
2.5°	902.9	900.0	893.4	881.0	874.1	868.3	858.6	853.0	850.4	850.2	851.3
5°	880.5	873.7	856.8	836.0	819.4	804.3	785.5	774.3	766.2	761.5	762.8
7.5°	854.4	843.9	817.3	784.1	757.5	728.1	699.2	681.9	668.4	658.4	660.2
10°	836.6	822.0	783.2	735.4	691.2	648.5	608.6	584.7	565.8	551.2	552.3
12.5°	830.6	810.9	757.1	693.3	631.2	572.9	520.8	484.2	464.7	448.1	449.4
15°	831.5	805.0	735.3	655.4	577.3	503.8	440.6	397.8	371.4	359.9	360.1
17.5°	832.2	798.3	712.3	614.8	523.9	439.3	370.6	327.3	302.3	291.7	291.9
20°	829.8	787.4	683.9	568.2	468.1	380.1	313.6	276.8	257.8	249.6	249.6
22.5°	826.7	774.4	651.8	521.3	413.1	328.7	272.8	244.7	233.8	228.3	228.1
25°	828.2	764.8	619.0	473.2	362.4	287.7	245.6	227.0	219.8	216.3	216.1
27.5°	836.0	760.2	588.8	425.3	318.2	256.9	227.4	214.3	209.6	207.4	207.4
30°	850.2	760.2	557.2	384.5	281.3	234.2	213.4	204.5	201.2	199.7	199.7
32.5°	875.0	764.4	526.8	344.0	252.0	216.3	201.7	195.7	193.2	192.4	192.4
35°	917.7	778.6	497.1	305.8	228.3	201.7	190.6	187.1	185.3	185.1	185.7
37.5°	977.6	807.6	469.2	277.5	211.6	189.9	181.3	178.6	177.5	178.4	179.1
40°	1053.0	847.0	443.9	252.0	198.8	180.4	172.7	170.9	170.4	171.7	172.7
42.5°	1144.2	900.2	423.1	233.6	189.0	172.4	165.5	163.3	162.7	164.2	165.6
45°	1242.7	957.4	408.5	219.9	181.3	166.4	159.1	156.7	155.6	156.3	158.0
47.5°	1332.4	1011.5	402.7	210.3	174.0	161.3	153.4	150.5	148.7	148.3	149.6
50°	1408.0	1051.8	405.4	204.5	168.2	155.6	148.0	144.7	141.9	140.3	141.2
52.5°	1463.0	1077.1	408.0	201.9	163.6	149.4	141.9	138.9	135.2	132.5	132.5
55°	1502.9	1082.9	402.3	199.9	160.2	142.7	135.2	132.3	128.6	125.5	125.2
57.5°	1518.6	1066.5	381.4	197.0	157.8	136.3	128.1	125.9	122.8	119.2	119.0
60°	1497.5	1015.9	340.9	190.8	154.7	131.0	121.0	119.5	118.1	114.6	114.4
62.5°	1412.6	904.7	288.6	178.2	148.5	125.4	114.4	115.2	115.3	113.0	112.6
65°	1258.6	752.0	237.6	161.8	139.2	118.6	107.7	111.2	113.2	112.8	112.2
67.5°	1034.8	585.3	201.4	144.5	127.0	109.3	100.4	104.4	106.1	107.3	107.0
70°	768.1	412.7	166.5	126.3	112.2	98.4	90.9	92.9	91.8	93.3	93.8
72.5°	428.2	247.6	135.8	108.1	96.9	85.6	80.4	80.0	77.6	77.6	77.6
74°	256.9	181.7	119.4	96.8	87.6	77.3	72.7	71.1	68.9	69.1	68.9
75°	206.6	156.2	109.5	89.3	81.1	72.3	67.8	65.6	64.0	64.0	63.8
77.5°	130.5	118.6	88.2	71.1	64.9	59.6	56.5	53.6	53.6	53.4	53.2
80°	98.6	94.4	68.7	53.8	49.7	45.7	43.7	42.5	42.5	43.0	42.8
82.5°	67.6	71.1	48.3	37.5	35.5	32.6	32.3	32.4	31.9	31.2	31.0
85°	49.4	53.4	32.6	23.7	21.7	19.9	21.3	22.0	21.1	19.5	18.8
87.5°	19.0	35.0	17.5	9.8	9.1	7.8	9.1	9.5	10.2	8.0	8.2
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)