

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: P320875

Luminaire Tested: **GAN-SA1B-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5133 lumens
Efficiency: N/A
Efficacy: 116.7 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

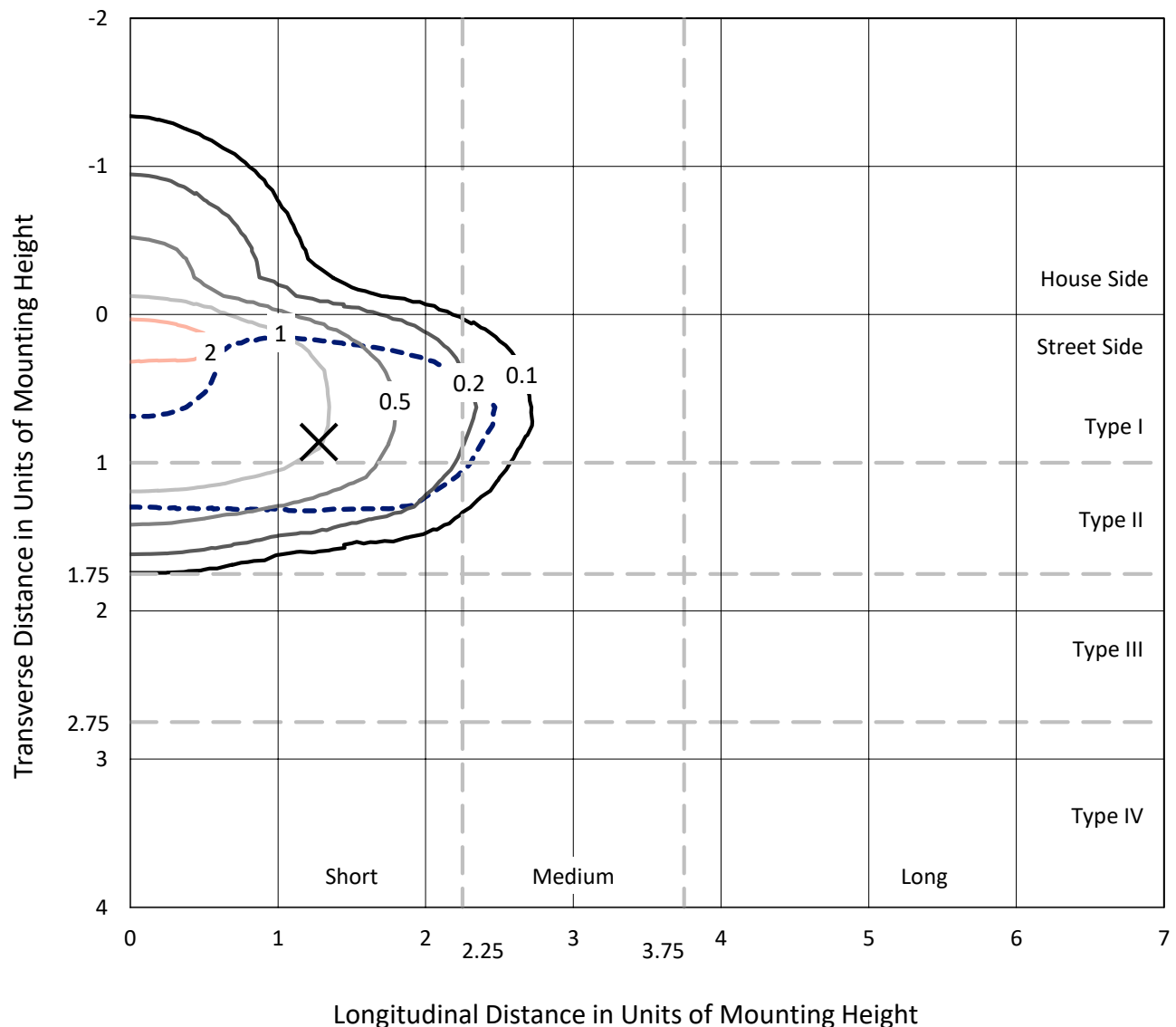
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320875
 CATALOG NUMBER: GAN-SA1B-727-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

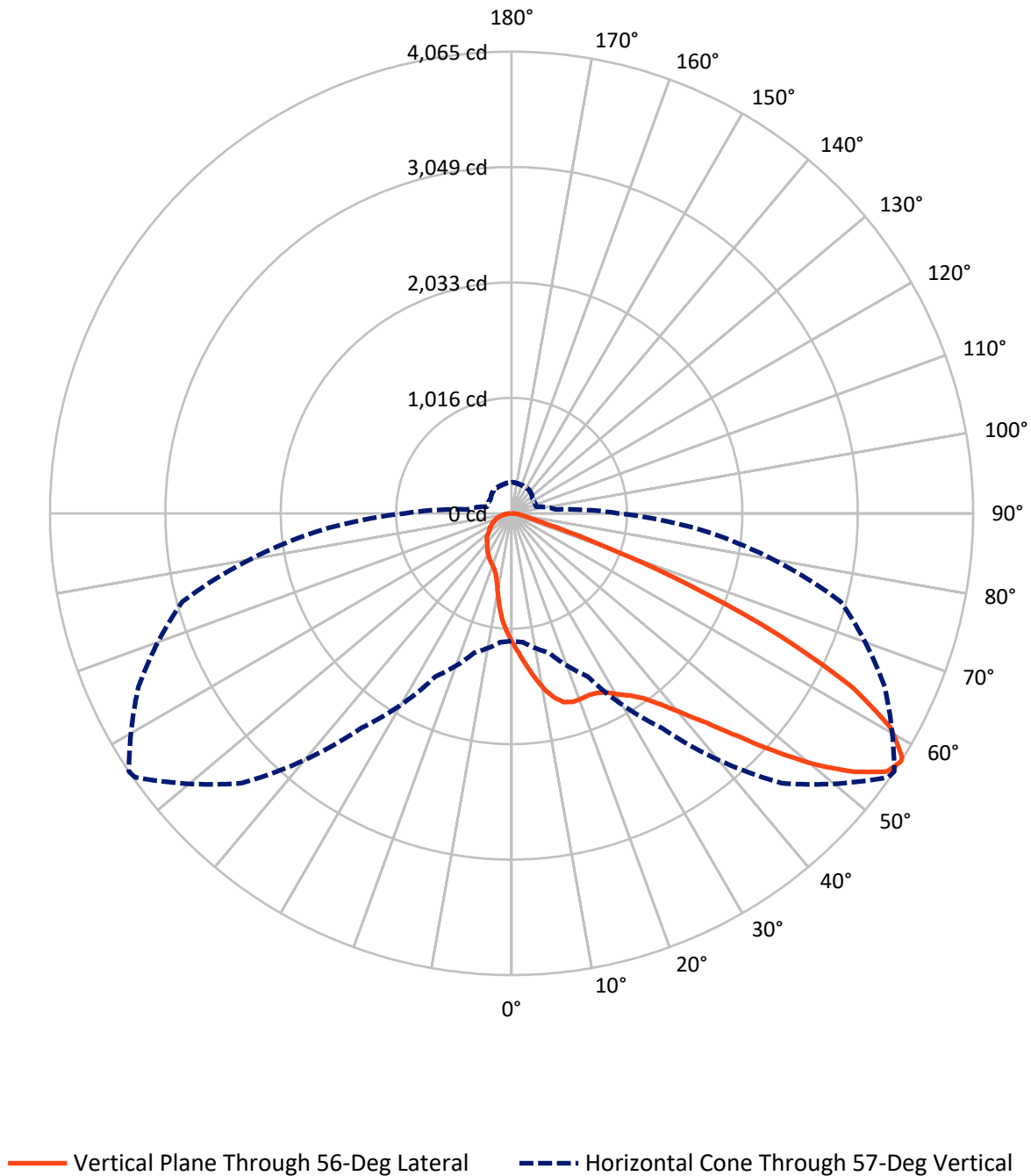
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

REPORT NUMBER: P320875
CATALOG NUMBER: GAN-SA1B-727-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P320875

CATALOG NUMBER: GAN-SA1B-727-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	884.8	0.0	884.8
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	4248.2	0.0	4248.2
	% Fixture	82.8	0.0	82.8
Total	Lumens	5133.0	0.0	5133.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	2.1
10°-20°	307.5	6.0
20°-30°	500.8	9.8
30°-40°	748.7	14.6
40°-50°	1135.6	22.1
50°-60°	1272.8	24.8
60°-70°	751.8	14.6
70°-80°	246.3	4.8
80°-90°	60.9	1.2
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°	5133.0	100.0
0°-180°	5133.0	100.0

Coefficient of Utilization



REPORT NUMBER: P320875

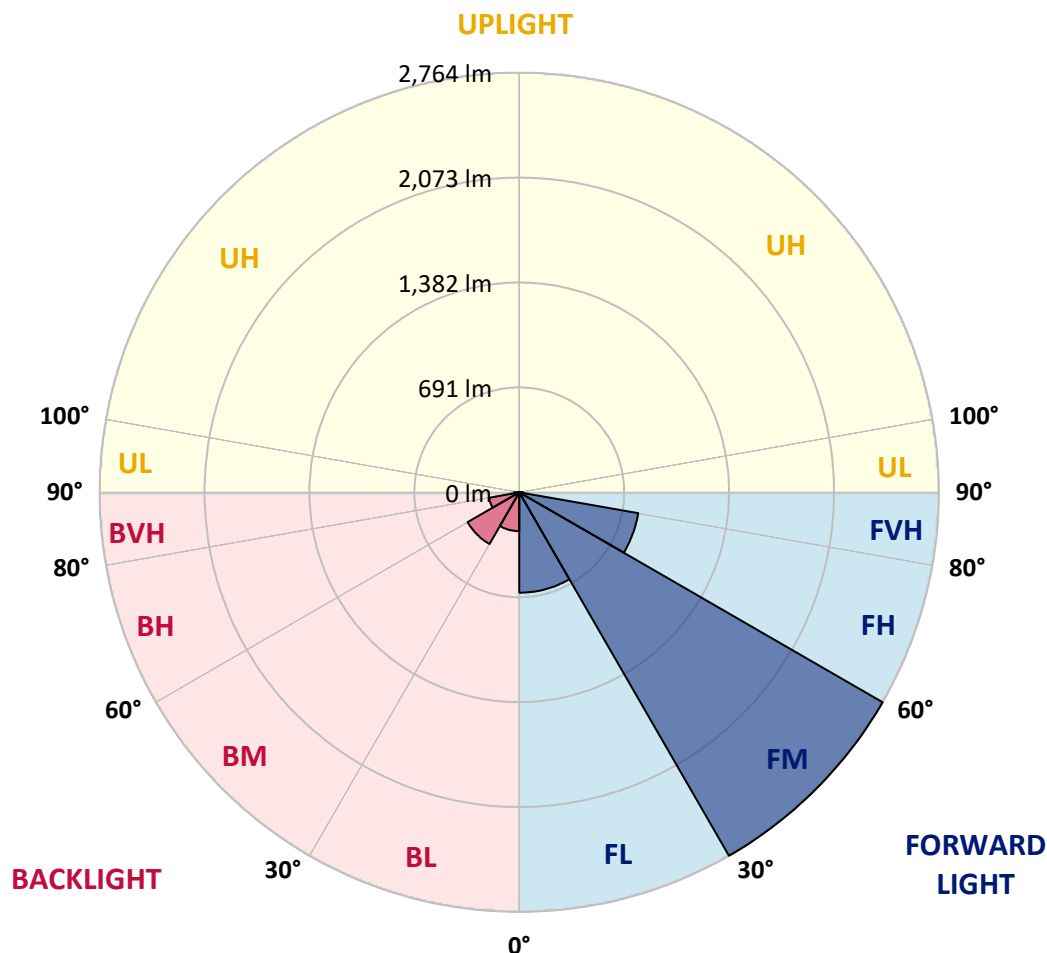
CATALOG NUMBER: GAN-SA1B-727-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	661.2	12.9			
FM	(30°-60°)	2764.3	53.9			
FH	(60°-80°)	795.9	15.5			G1/1800
FVH	(80°-90°)	26.8	0.5			G1/100
BL	(0°-30°)	255.8	5.0	B1/500		
BM	(30°-60°)	392.7	7.7	B1/1000		
BH	(60°-80°)	202.2	3.9	B1/500		G1/500
BVH	(80°-90°)	34.1	0.7			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





REPORT NUMBER: P320875

CATALOG NUMBER: GAN-SA1B-727-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5
2.5°	1307.3	1319.3	1314.0	1295.7	1281.6	1261.6	1239.4	1232.7	1209.2	1183.0	1151.4
5°	1514.2	1508.2	1499.6	1471.0	1440.9	1405.8	1350.0	1341.2	1289.0	1229.5	1166.7
7.5°	1632.1	1631.6	1626.4	1609.7	1582.2	1536.3	1469.1	1458.7	1379.8	1284.2	1186.8
10°	1615.0	1613.7	1622.2	1639.7	1648.0	1638.4	1581.8	1571.4	1474.6	1344.7	1210.1
12.5°	1517.8	1518.5	1532.1	1568.8	1618.7	1678.6	1669.5	1664.4	1572.8	1413.2	1238.3
15°	1442.1	1443.7	1454.4	1486.4	1545.3	1654.1	1722.8	1724.5	1667.9	1488.7	1271.3
17.5°	1408.9	1412.3	1417.2	1439.6	1493.6	1605.3	1735.5	1745.0	1751.2	1567.0	1303.1
20°	1419.5	1422.7	1424.1	1438.4	1482.7	1575.6	1726.6	1743.7	1815.0	1640.7	1334.8
22.5°	1467.0	1468.9	1469.8	1473.5	1507.9	1584.1	1720.8	1738.8	1861.2	1706.9	1358.8
25°	1545.6	1544.2	1538.6	1533.8	1556.9	1617.6	1734.2	1751.3	1898.8	1766.9	1374.5
27.5°	1639.8	1638.1	1627.1	1614.1	1627.3	1669.8	1772.8	1786.4	1932.5	1822.9	1382.5
30°	1752.9	1748.3	1727.7	1712.2	1717.3	1748.2	1836.5	1848.9	1984.5	1886.6	1390.2
32.5°	1883.6	1878.7	1848.9	1823.1	1823.1	1848.9	1902.2	1912.4	2028.6	1958.6	1402.8
35°	2047.3	2041.2	2002.3	1959.1	1947.0	1960.0	1991.6	1998.8	2108.0	2049.3	1425.5
37.5°	2240.3	2232.0	2181.8	2123.9	2097.3	2096.5	2119.3	2134.1	2234.8	2168.3	1464.1
40°	2433.8	2428.0	2384.1	2338.6	2286.4	2269.6	2304.7	2309.3	2400.7	2316.2	1513.5
42.5°	2583.4	2582.4	2574.2	2580.2	2526.8	2492.9	2520.4	2524.1	2603.2	2476.2	1566.1
45°	2662.4	2664.2	2703.6	2790.7	2810.5	2785.8	2799.3	2800.4	2834.6	2637.6	1614.3
47.5°	2599.1	2608.3	2707.8	2902.7	3064.5	3146.5	3123.9	3137.0	3059.0	2776.2	1652.0
50°	2352.3	2363.6	2533.0	2852.8	3183.0	3495.6	3483.8	3480.8	3240.0	2877.8	1672.5
52.5°	2046.6	2055.4	2195.2	2593.3	3096.0	3688.6	3797.1	3781.5	3400.9	2953.9	1676.4
55°	1581.1	1594.9	1728.7	2075.4	2744.3	3614.8	4027.5	4013.5	3547.5	2993.7	1671.8
57°	1124.0	1138.5	1271.5	1583.9	2308.6	3359.6	4050.4	4065.2	3626.7	3000.4	1676.9
57.5°	1003.0	1017.8	1149.6	1453.0	2172.8	3267.3	4030.6	4055.3	3641.0	2999.4	1679.7
60°	505.0	510.7	594.7	811.1	1373.5	2641.5	3772.9	3836.6	3653.8	2947.5	1691.9
62.5°	314.0	309.9	307.3	373.6	668.2	1751.7	3241.0	3363.6	3407.4	2821.9	1662.4
65°	276.1	268.5	239.4	234.1	295.1	850.8	2440.7	2593.3	2880.8	2624.0	1592.2
67.5°	259.3	251.9	219.1	199.3	199.5	337.3	1515.3	1687.1	2244.2	2289.4	1426.6
70°	242.0	235.3	204.6	181.3	169.9	186.8	697.1	827.5	1462.9	1799.5	1192.3
72.5°	219.8	215.2	186.1	162.1	149.9	139.9	266.9	315.2	846.9	1208.5	828.0
75°	196.5	192.3	167.4	144.5	129.7	110.1					



REPORT NUMBER: P320875

CATALOG NUMBER: GAN-SA1B-727-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5
2.5°	1139.6	1124.7	1099.3	1071.3	1048.4	1030.0	1011.5	998.8	984.0	976.0	972.0
5°	1140.4	1111.3	1057.9	1003.0	954.0	909.2	866.5	833.7	803.0	786.4	781.8
7.5°	1144.1	1100.4	1014.0	923.6	836.5	756.9	695.6	657.1	629.4	617.1	613.5
10°	1147.1	1087.5	959.6	825.9	707.4	626.8	579.1	557.6	548.1	546.5	544.9
12.5°	1154.2	1074.3	902.5	724.0	607.0	551.3	534.7	533.3	535.9	539.8	539.8
15°	1165.3	1061.2	837.2	636.5	543.1	523.6	526.9	534.7	541.9	547.9	548.8
17.5°	1173.4	1045.2	767.0	566.4	509.1	514.4	526.4	537.3	544.7	550.6	551.1
20°	1179.3	1020.3	692.0	513.0	489.5	505.9	520.9	530.6	535.7	541.6	542.4
22.5°	1176.3	987.0	625.5	474.7	473.6	493.6	507.9	519.5	515.6	510.0	513.7
25°	1161.8	941.1	557.1	446.1	456.9	477.0	494.6	486.9	473.8	471.3	472.8
27.5°	1136.0	882.5	493.8	419.7	437.5	461.6	460.6	452.8	448.2	445.1	447.0
30°	1108.3	819.0	438.4	396.6	416.0	435.9	431.8	431.7	427.1	422.0	424.4
32.5°	1081.0	755.2	394.4	377.5	399.7	402.4	411.2	413.8	404.8	394.1	393.4
35°	1057.2	694.9	361.1	360.2	380.1	380.5	393.4	389.7	367.3	356.2	356.2
37.5°	1039.4	634.7	335.7	344.7	354.4	363.6	370.1	354.7	351.0	344.9	344.7
40°	1031.6	581.8	319.8	332.9	336.2	347.9	331.1	337.1	338.9	335.7	335.7
42.5°	1023.5	535.7	306.1	323.9	323.3	321.8	313.3	321.1	328.1	328.3	327.8
45°	1015.4	496.0	293.9	304.6	312.1	294.9	296.5	304.8	314.7	318.2	318.2
47.5°	1006.4	464.6	282.8	284.4	295.8	284.4	283.1	289.5	301.1	306.8	308.0
50°	986.6	436.4	270.1	266.5	269.7	273.6	274.7	277.7	290.5	299.5	301.6
52.5°	959.3	411.2	253.8	250.1	250.1	264.8	269.7	270.6	281.5	292.3	294.4
55°	936.5	395.1	237.1	236.4	235.7	255.4	263.9	265.3	272.9	281.4	282.4
57°	938.1	393.9	224.2	224.9	224.7	245.9	258.4	261.4	265.3	272.5	273.8
57.5°	939.0	394.8	221.4	221.7	221.6	243.3	256.8	260.2	263.2	270.8	272.0
60°	952.2	397.1	209.9	206.0	206.9	229.1	247.8	252.1	254.0	264.1	265.7
62.5°	932.6	386.9	200.7	191.4	191.4	214.3	235.3	242.0	245.0	258.6	261.3
65°	875.8	358.1	190.0	174.8	176.6	199.5	220.3	231.3	235.9	252.8	255.6
67.5°	788.2	324.8	178.5	160.0	161.8	184.0	204.8	216.6	223.9	246.4	248.7
70°	674.0	284.0	163.0	144.3	146.4	167.1	186.5	199.9	210.6	240.4	241.1
72.5°	496.9	232.9	141.3	127.0	129.3	147.3	167.9	183.5	197.9	225.4	225.1
75°	295.5	182.0	117.3	109.5	111.1	127.9	151.2	170.1	191.7	219.6	223.0
77.5°	179.2	137.1	95.6	91.7	93.7	110.8	139.2	159.3	189.1	207.1	206.0
80°	108.3	97.9	76.4	73.9	75.9	94.7	128.8	151.2	165.3	176.9	176.9