

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: P320919

Luminaire Tested: **GAN-SA5B-730-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320919  
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-SA5B-730-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26684 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

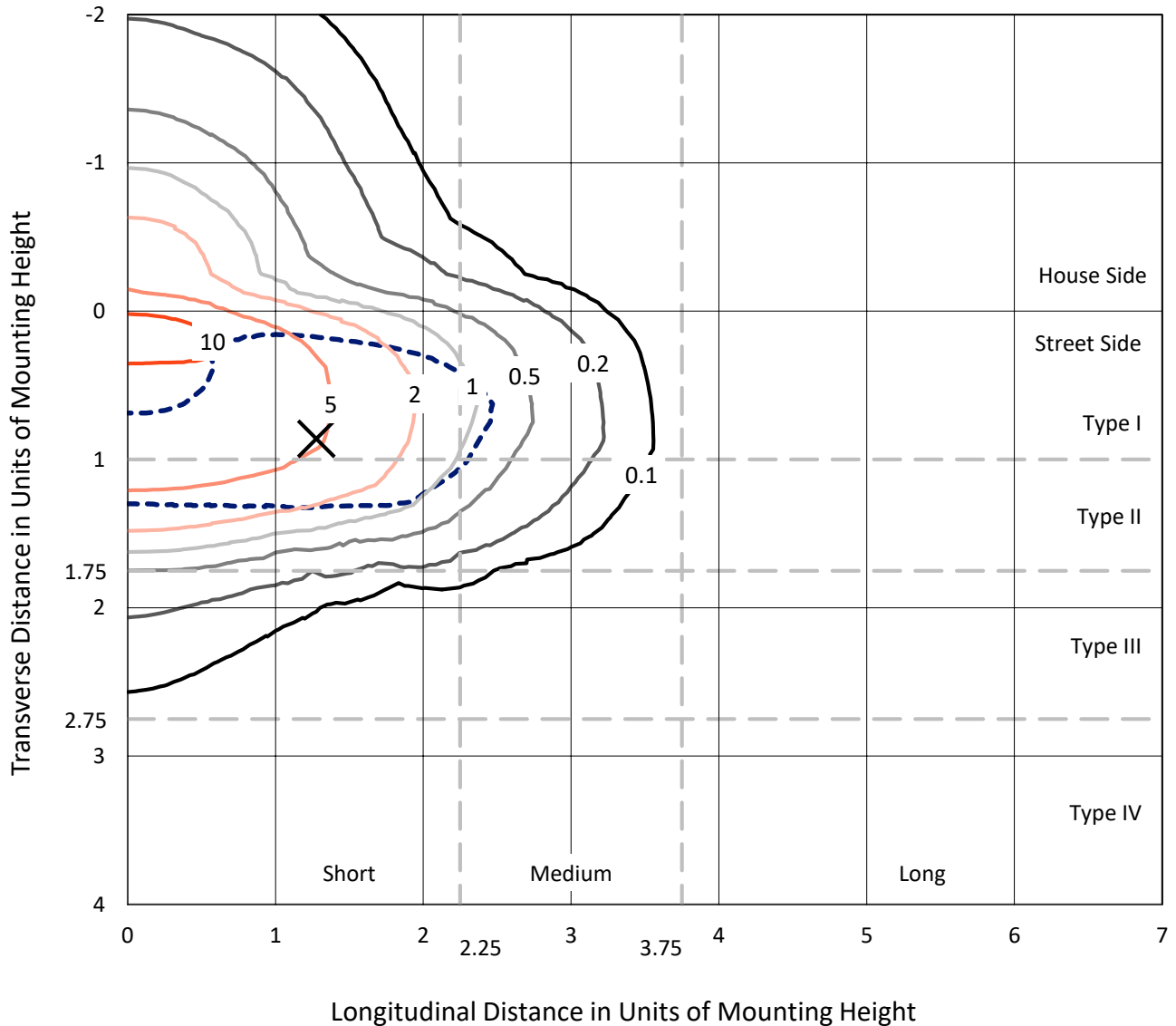
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P320919  
 CATALOG NUMBER: GAN-SA5B-730-U-AFL

### Iso-Footcandle Lines of Horizontal Illumination

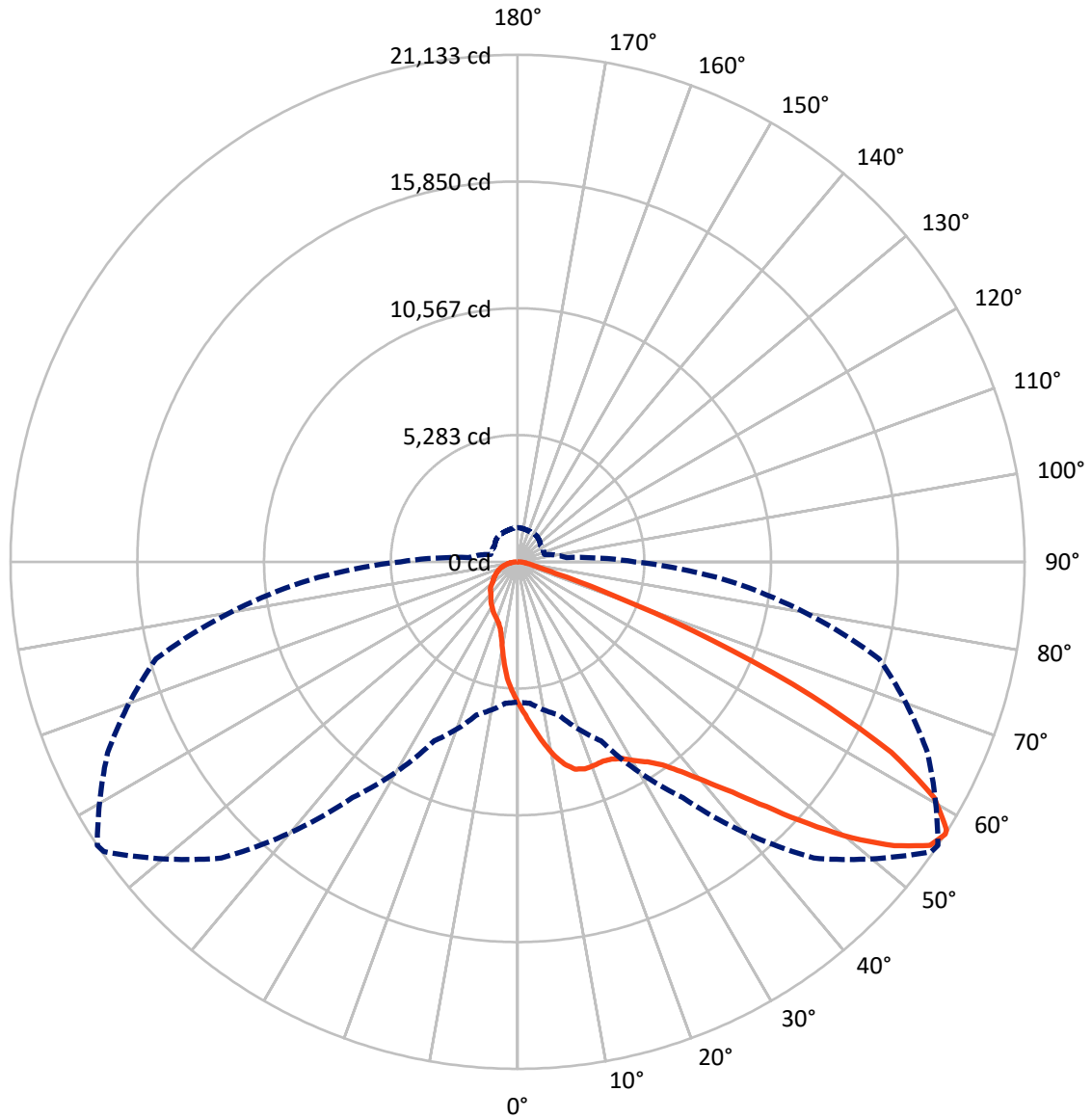
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P320919  
CATALOG NUMBER: GAN-SA5B-730-U-AFL

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P320919  
 CATALOG NUMBER: GAN-SA5B-730-U-AFL

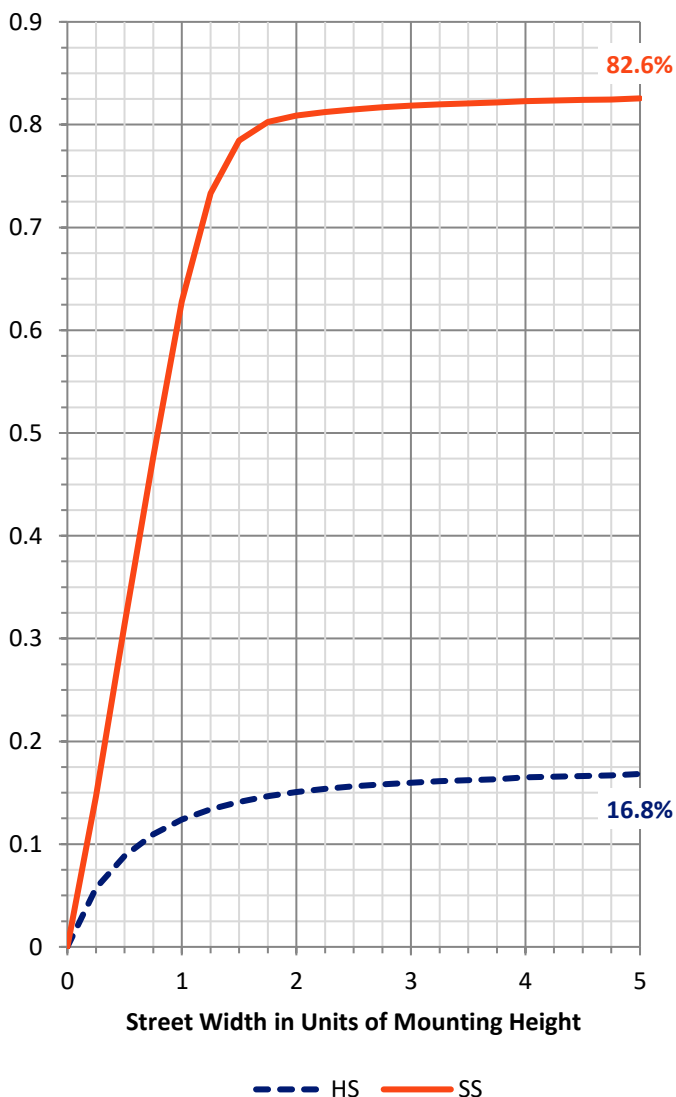
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4599.7	0.0	4599.7
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	22084.3	0.0	22084.3
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	26684.0	0.0	26684.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	565.4	2.1
10°-20°	1598.4	6.0
20°-30°	2603.5	9.8
30°-40°	3892.0	14.6
40°-50°	5903.3	22.1
50°-60°	6616.6	24.8
60°-70°	3908.0	14.6
70°-80°	1280.4	4.8
80°-90°	316.3	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°	26684.0	100.0
0°-180°	26684.0	100.0

**Coefficient of Utilization**

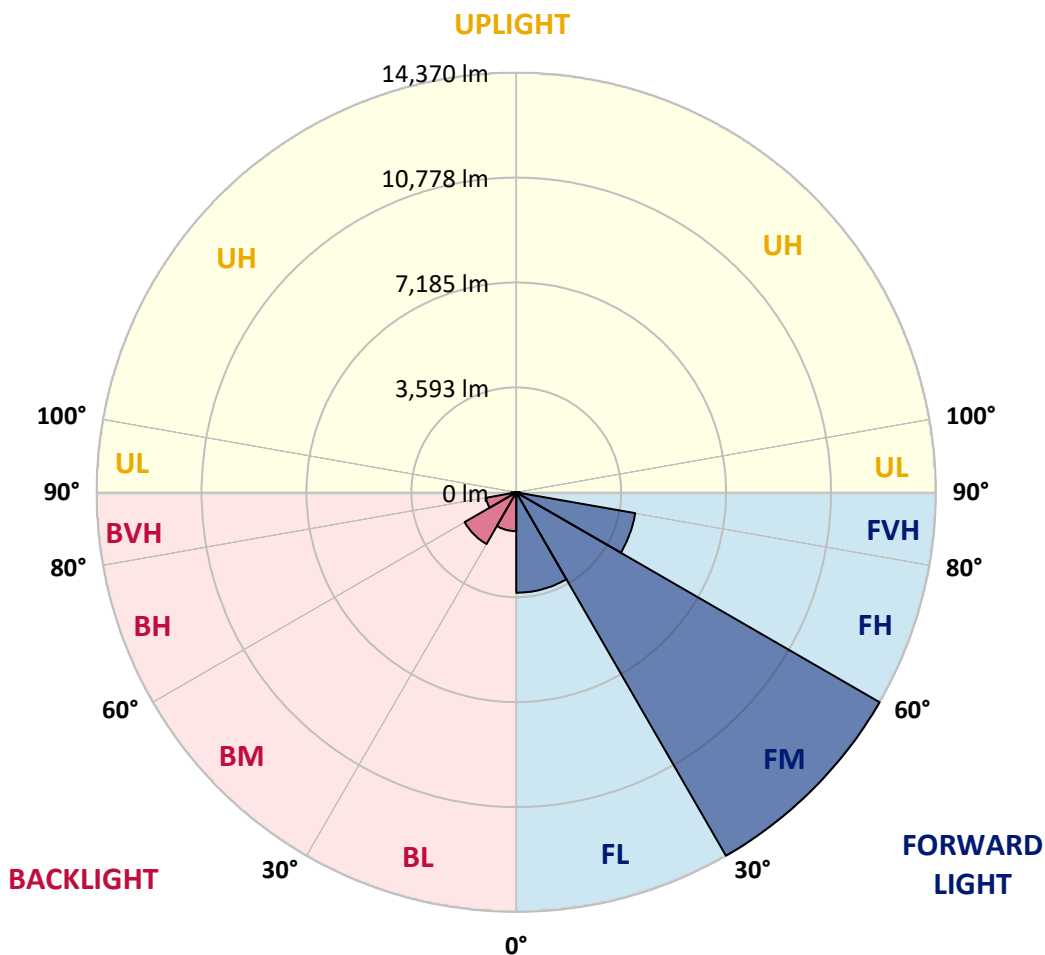


REPORT NUMBER: P320919  
 CATALOG NUMBER: GAN-SA5B-730-U-AFL

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3437.3	12.9			
FM (30°-60°)	14370.2	53.9			
FH (60°-80°)	4137.4	15.5			G2/5000
FVH (80°-90°)	139.3	0.5			G2/225
BL (0°-30°)	1330.0	5.0	B3/2500		
BM (30°-60°)	2041.7	7.7	B2/2500		
BH (60°-80°)	1051.0	3.9	B3/2500		G3/2500
BVH (80°-90°)	177.1	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





REPORT NUMBER: P320919

CATALOG NUMBER: GAN-SA5B-730-U-AFL

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5918.5	5918.5	5918.5	5918.5	5918.5	5918.5	5918.5	5918.5	5918.5	5918.5	5918.5
2.5°	6796.1	6858.5	6831.0	6735.6	6662.2	6558.6	6443.1	6408.2	6286.3	6149.6	5985.5
5°	7871.8	7840.6	7795.7	7647.1	7490.3	7307.8	7018.1	6972.2	6700.8	6391.7	6065.3
7.5°	8484.4	8481.6	8455.1	8367.9	8224.9	7986.4	7637.1	7583.0	7173.0	6676.0	6169.8
10°	8395.4	8389.0	8433.0	8523.8	8566.9	8517.4	8223.0	8168.9	7665.5	6990.5	6290.9
12.5°	7890.2	7893.8	7964.4	8155.2	8414.7	8726.5	8678.8	8652.2	8176.3	7346.4	6437.6
15°	7496.8	7505.0	7560.9	7726.9	8033.2	8599.0	8955.8	8964.9	8670.6	7738.8	6609.1
17.5°	7324.3	7341.8	7367.4	7483.9	7764.5	8345.0	9021.8	9071.3	9103.4	8146.0	6774.1
20°	7379.4	7395.9	7403.2	7477.5	7707.7	8190.9	8975.9	9064.9	9435.4	8529.3	6939.2
22.5°	7626.1	7636.1	7640.7	7660.0	7838.8	8235.0	8945.7	9039.2	9675.6	8873.2	7063.9
25°	8035.0	8027.7	7998.4	7973.6	8093.7	8409.2	9015.4	9104.3	9871.0	9185.0	7145.5
27.5°	8524.7	8515.6	8458.7	8390.9	8459.6	8680.6	9216.2	9286.8	10046.1	9476.6	7186.8
30°	9112.6	9088.7	8981.4	8900.7	8927.3	9087.8	9547.2	9611.4	10316.6	9807.7	7227.1
32.5°	9792.1	9766.4	9611.4	9477.5	9477.5	9611.4	9888.4	9941.6	10545.9	10181.8	7292.3
35°	10643.1	10611.0	10409.2	10184.6	10121.3	10189.2	10353.3	10390.9	10958.6	10653.2	7410.5
37.5°	11646.3	11603.2	11341.9	11041.1	10902.6	10898.9	11017.2	11094.3	11617.9	11272.2	7611.4
40°	12652.3	12622.1	12393.7	12157.1	11885.7	11798.6	11981.0	12004.9	12479.9	12040.7	7868.1
42.5°	13430.0	13424.5	13382.3	13413.5	13135.6	12959.5	13102.6	13121.8	13532.7	12872.4	8141.4
45°	13840.8	13850.0	14054.5	14507.5	14610.2	14481.8	14552.4	14557.9	14735.8	13711.5	8391.8
47.5°	13511.6	13559.3	14076.5	15089.8	15930.7	16357.1	16239.7	16307.6	15902.3	14432.3	8588.0
50°	12228.6	12287.3	13167.7	14830.3	16547.0	18171.9	18110.5	18094.9	16843.2	14960.5	8694.4
52.5°	10639.4	10685.3	11411.6	13481.3	16094.9	19175.2	19739.2	19658.5	17679.5	15355.7	8714.6
55°	8219.4	8290.9	8986.9	10788.9	14266.3	18791.9	20936.8	20864.4	18441.5	15563.0	8690.7
57°	5843.3	5918.5	6610.0	8234.0	12001.2	17464.9	21056.0	21133.0	18853.3	15597.8	8717.3
57.5°	5214.3	5291.3	5976.3	7553.6	11295.1	16985.3	20953.3	21081.7	18927.6	15592.3	8732.0
60°	2625.5	2654.8	3091.3	4216.5	7140.0	13731.7	19613.5	19944.6	18994.5	15322.7	8795.3
62.5°	1632.3	1611.2	1597.5	1942.3	3473.7	9106.1	16848.7	17486.0	17713.4	14669.8	8642.1
65°	1435.2	1395.7	1244.4	1216.9	1534.2	4422.9	12688.1	13481.3	14976.1	13640.9	8277.1
67.5°	1348.0	1309.5	1139.0	1036.2	1037.2	1753.4	7877.3	8770.5	11666.5	11901.3	7416.1
70°	1258.2	1223.3	1063.8	942.7	883.1	971.1	3624.1	4301.8	7605.0	9354.7	6198.2
72.5°	1142.6	1118.8	967.5	842.8	779.5	727.2	1387.5	1638.7	4402.7	6282.6	4304.6
75°	1021.6	999.6	870.3	751.1	674.0	572.2	781.3	841.8	2236.6	3214.2	2119.3
77.5°	888.6	875.8	774.0	663.9	602.5	474.1	553.0	582.3	959.2	1378.3	1062.8
80°	707.0	731.8	676.8	591.5	534.6	379.7	391.6	410.8	558.5	673.1	603.4
82.5°	460.4	503.5	530.0	480.5	440.2	299.0	281.5	289.8	364.1	410.8	262.3
85°	191.7	215.5	348.5	314.5	292.5	218.3	188.9	192.6	225.6	233.8	107.3
87.5°	85.3	90.8	153.1	144.0	123.8	75.2	80.7	88.0	120.1	113.7	41.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320919  
 CATALOG NUMBER: GAN-SA5B-730-U-AFL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5918.5	5918.5	5918.5	5918.5	5918.5	5918.5	5918.5	5918.5	5918.5	5918.5	5918.5
2.5°	5924.0	5847.0	5715.0	5569.1	5449.9	5354.6	5258.3	5192.2	5115.2	5073.9	5052.9
5°	5928.6	5777.3	5499.5	5214.3	4959.3	4726.4	4504.5	4333.9	4174.3	4088.1	4064.3
7.5°	5947.9	5720.5	5271.1	4801.6	4348.6	3935.0	3615.9	3416.0	3272.0	3207.8	3189.4
10°	5963.5	5653.5	4988.7	4293.6	3677.3	3258.2	3010.6	2898.7	2849.2	2841.0	2832.7
12.5°	6000.2	5584.7	4691.5	3763.5	3155.5	2865.7	2779.5	2772.2	2785.9	2806.1	2806.1
15°	6057.9	5516.9	4352.2	3308.7	2823.5	2721.8	2739.2	2779.5	2817.1	2848.3	2852.9
17.5°	6100.1	5433.4	3987.3	2944.6	2646.6	2674.1	2736.4	2793.3	2831.8	2862.1	2864.8
20°	6130.4	5304.1	3597.5	2666.7	2544.8	2630.1	2708.0	2758.4	2785.0	2815.3	2819.9
22.5°	6114.8	5130.8	3251.8	2467.7	2462.2	2565.9	2640.1	2700.7	2680.5	2651.1	2670.4
25°	6039.6	4892.4	2896.0	2319.2	2375.1	2479.7	2571.4	2531.0	2463.2	2450.3	2457.7
27.5°	5905.7	4587.9	2566.8	2181.6	2274.2	2399.9	2394.4	2354.0	2330.2	2313.7	2323.8
30°	5761.7	4257.8	2278.8	2061.5	2162.4	2266.0	2244.9	2244.0	2220.1	2193.5	2206.4
32.5°	5619.6	3925.8	2050.5	1962.5	2078.0	2091.8	2137.6	2151.4	2104.6	2048.7	2045.0
35°	5495.8	3612.2	1877.2	1872.6	1976.2	1978.0	2045.0	2025.7	1909.3	1851.5	1851.5
37.5°	5403.2	3299.5	1745.1	1791.9	1842.3	1890.0	1923.9	1844.2	1824.9	1792.8	1791.9
40°	5362.8	3024.4	1662.6	1730.4	1747.9	1808.4	1721.3	1752.5	1761.6	1745.1	1745.1
42.5°	5320.6	2785.0	1591.1	1683.7	1680.9	1672.7	1628.7	1669.0	1705.7	1706.6	1703.8
45°	5278.4	2578.7	1527.8	1583.7	1622.2	1533.3	1541.5	1584.6	1636.0	1654.3	1654.3
47.5°	5231.7	2415.5	1470.0	1478.3	1537.9	1478.3	1471.8	1504.9	1565.4	1594.7	1601.1
50°	5129.0	2268.7	1404.0	1385.6	1402.1	1422.3	1427.8	1443.4	1510.4	1557.1	1568.1
52.5°	4986.8	2137.6	1319.6	1300.4	1300.4	1376.5	1402.1	1406.7	1463.6	1519.5	1530.5
55°	4868.5	2054.2	1232.5	1228.8	1225.2	1327.9	1371.9	1379.2	1418.7	1462.7	1468.2
57°	4876.8	2047.7	1165.5	1169.2	1168.3	1278.3	1343.5	1359.0	1379.2	1416.8	1423.2
57.5°	4881.4	2052.3	1150.9	1152.7	1151.8	1264.6	1335.2	1352.6	1368.2	1407.6	1414.1
60°	4950.1	2064.2	1091.3	1071.1	1075.7	1191.2	1288.4	1310.4	1320.5	1372.8	1381.1
62.5°	4848.4	2011.1	1043.6	995.0	995.0	1114.2	1223.3	1258.2	1273.8	1344.4	1358.1
65°	4553.1	1861.6	987.6	908.8	918.0	1037.2	1145.4	1202.2	1226.1	1314.1	1328.8
67.5°	4097.3	1688.3	928.0	831.7	840.9	956.5	1064.7	1126.1	1163.7	1281.1	1293.0
70°	3504.0	1476.4	847.3	750.1	761.1	868.4	969.3	1039.0	1094.9	1249.9	1253.6
72.5°	2583.3	1210.5	734.5	660.3	672.2	765.7	873.0	953.7	1028.9	1172.0	1170.1
75°	1536.0	946.4	609.8	569.5	577.7	664.8	785.9	884.0	996.8	1141.7	1159.1
77.5°	931.7	712.5	497.0	476.9	486.9	575.9	723.5	828.1	983.1	1076.6	1071.1
80°	563.1	509.0	397.1	384.2	394.3	492.4	669.4	785.9	859.3	919.8	919.8
82.5°	294.4	310.9	291.6	281.5	295.3	399.8	608.9	685.9	759.3	652.0	608.9
85°	120.1	162.3	177.0	176.1	184.3	276.9	525.5	586.9	489.7	464.9	475.9
87.5°	40.3	68.8	86.2	74.3	77.9	174.2	364.1	283.4	336.6	234.8	222.8
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)