

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: P480990

Luminaire Tested: **IFLD-L-SA7B-760-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480990  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-760-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (112) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

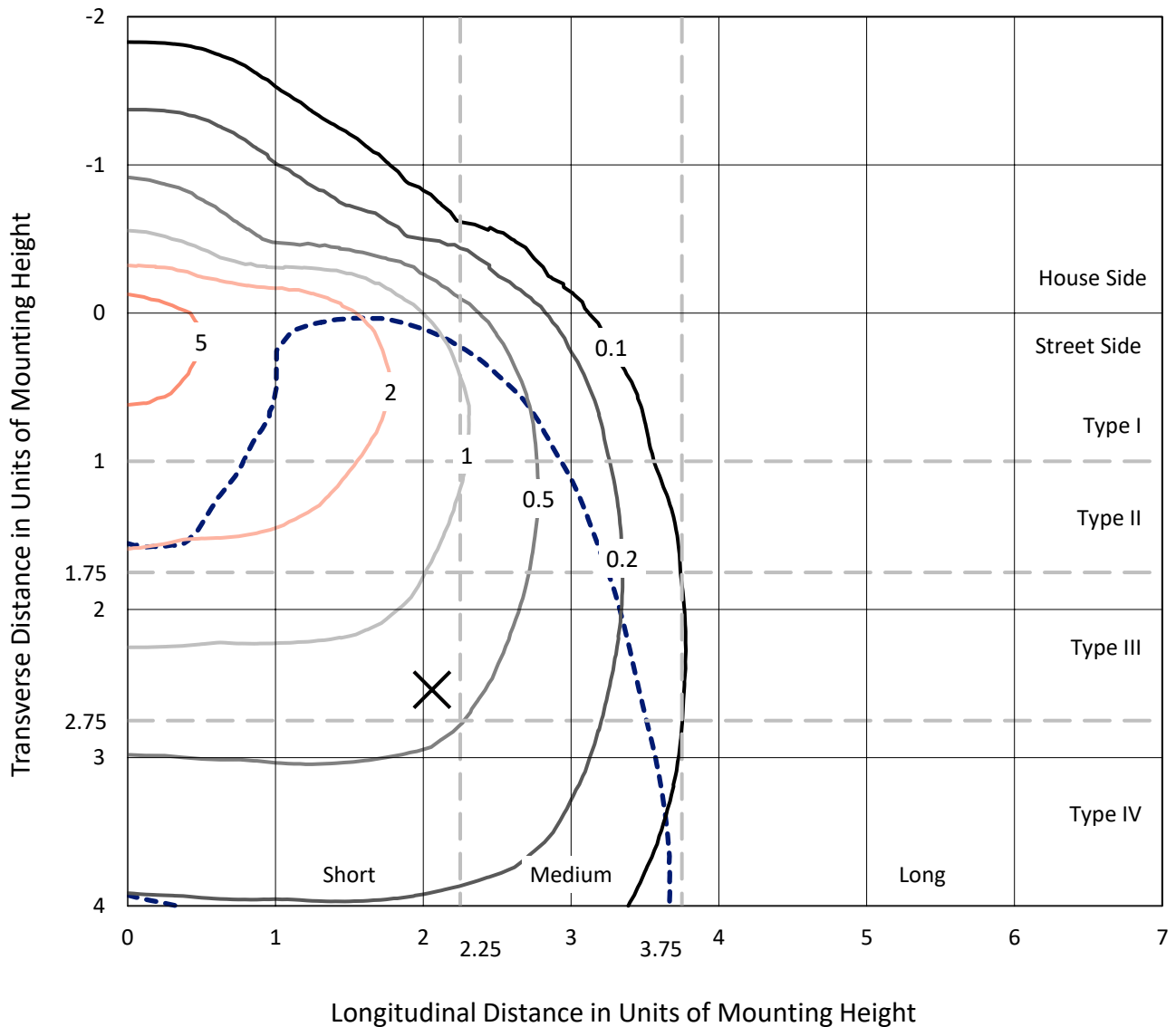
Lumens per Lamp: N/A  
Luminaire Lumens: 35235.7 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 281  
Input Voltage (V): 120  
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

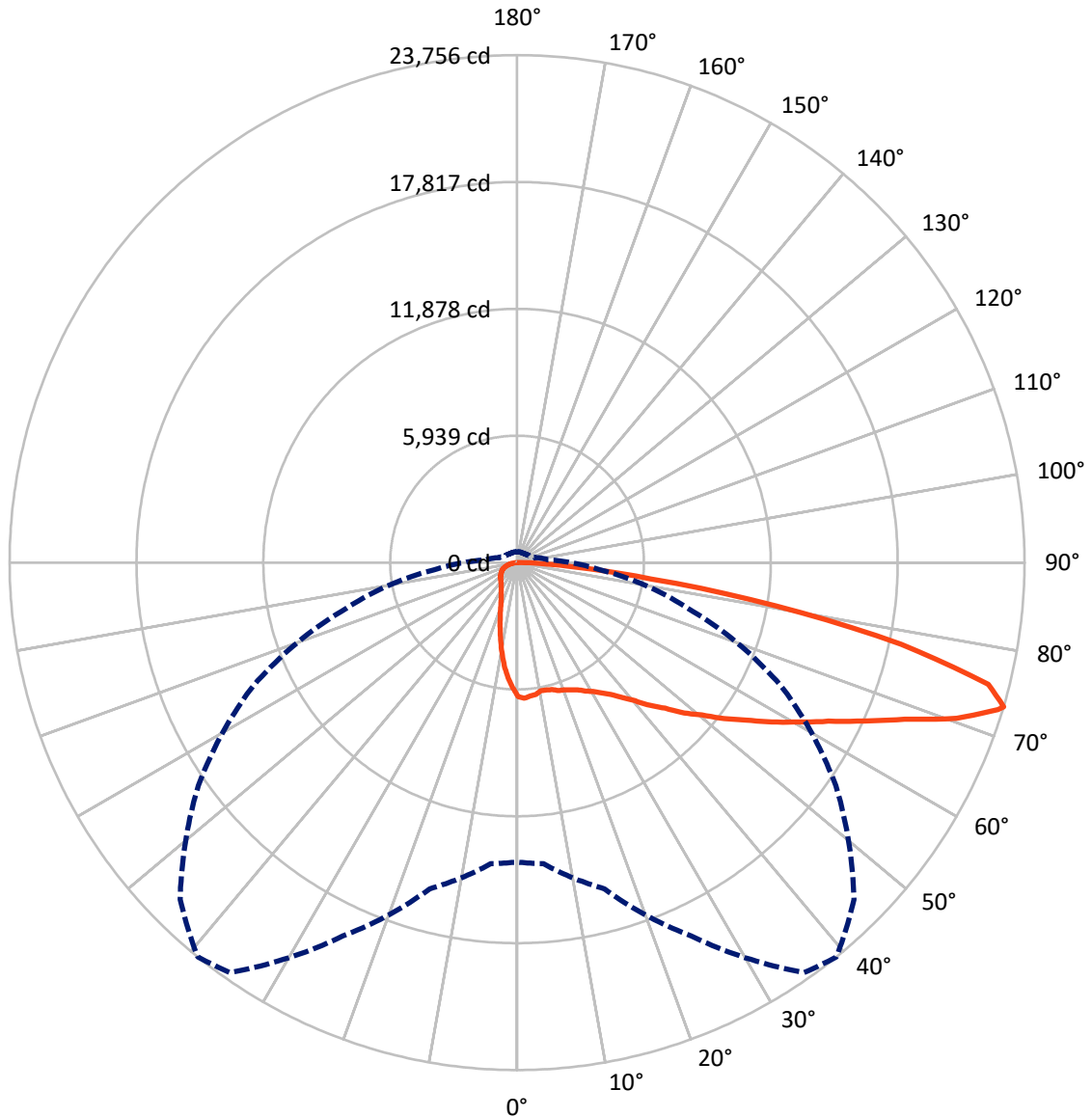
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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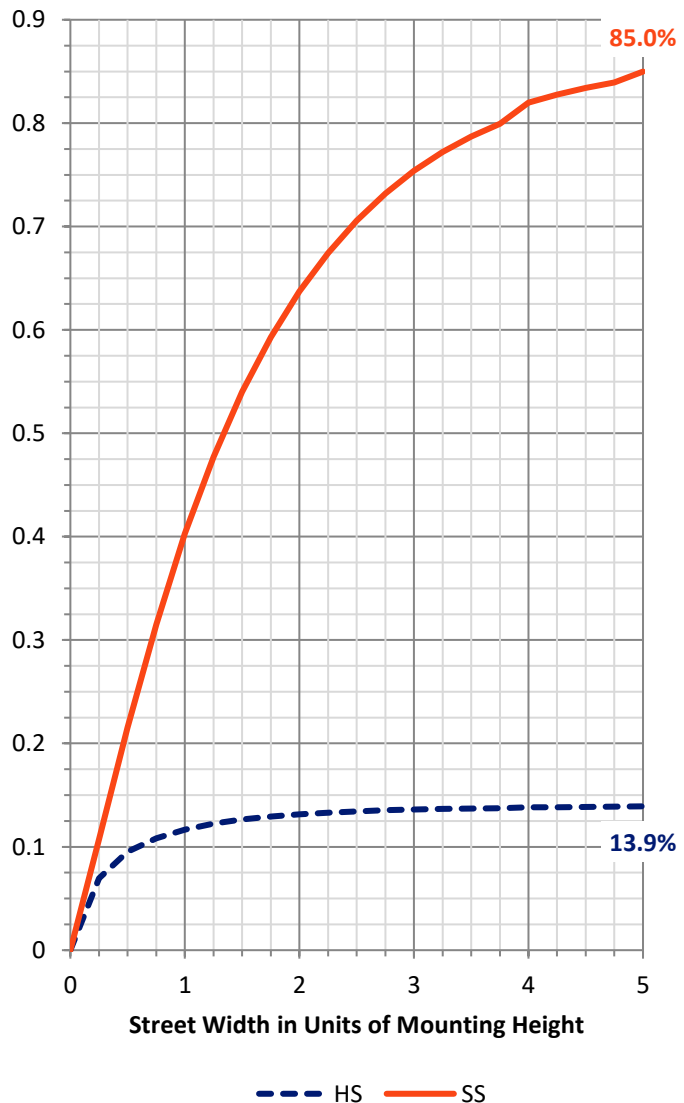
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4953.1	0.0	4953.1
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	30282.5	0.0	30282.5
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	35235.7	0.0	35235.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	544.5	1.5
10°-20°	1384.1	3.9
20°-30°	2115.1	6.0
30°-40°	3083.9	8.8
40°-50°	4660.1	13.2
50°-60°	6748.0	19.2
60°-70°	8573.7	24.3
70°-80°	6950.3	19.7
80°-90°	1176.0	3.3
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°	35235.7	100.0
0°-180°	35235.7	100.0

**Coefficient of Utilization**



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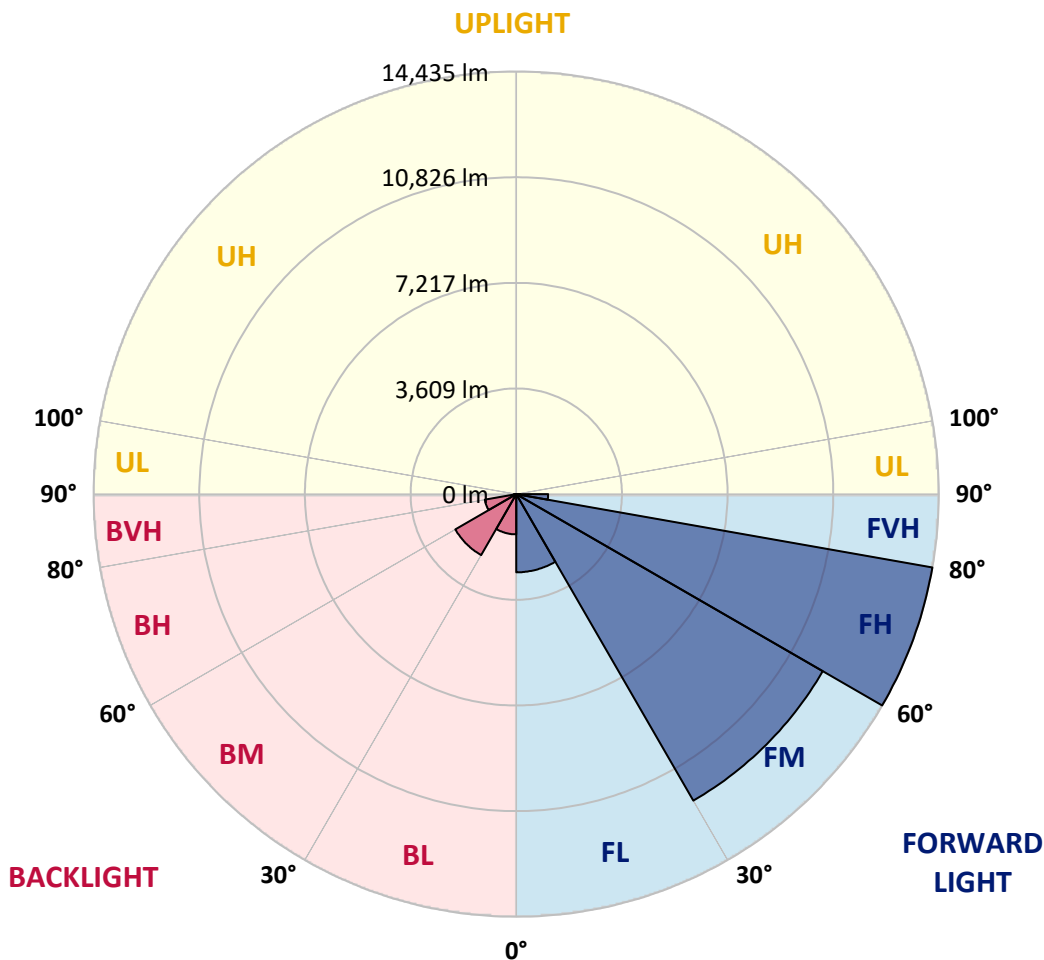
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2670.1	7.6			
FM (30°-60°)	12088.1	34.3			
FH (60°-80°)	14434.7	41.0			G5
FVH (80°-90°)	1089.7	3.1			G5
BL (0°-30°)	1373.6	3.9	B3/2500		
BM (30°-60°)	2403.9	6.8	B2/2500		
BH (60°-80°)	1089.4	3.1	B3/2500		G3/2500
BVH (80°-90°)	86.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6272.2	6272.2	6272.2	6272.2	6272.2	6272.2	6272.2	6272.2	6272.2	6272.2	6272.2
2.5°	6422.0	6355.0	6366.8	6343.1	6366.8	6358.9	6347.1	6287.9	6347.1	6287.9	6272.2
5°	6335.2	6335.2	6374.7	6315.5	6323.4	6284.0	6323.4	6280.1	6240.6	6142.1	6114.5
7.5°	6307.6	6303.7	6307.6	6224.9	6264.3	6240.6	6201.2	6153.9	6075.1	6012.0	5921.3
10°	6118.4	6157.8	6114.5	6138.1	6169.7	6098.7	6094.8	6082.9	6047.5	5964.7	5909.5
12.5°	6015.9	6082.9	6106.6	6086.9	6114.5	6122.4	6098.7	6082.9	6039.6	5984.4	5826.7
15°	6059.3	5980.4	6047.5	6177.6	6150.0	6169.7	6173.6	6157.8	6138.1	6035.6	5933.1
17.5°	6071.1	6023.8	6165.7	6193.3	6228.8	6299.8	6252.5	6248.5	6173.6	6102.6	5952.8
20°	6098.7	6079.0	6193.3	6339.2	6343.1	6355.0	6378.6	6319.5	6280.1	6157.8	5929.2
22.5°	6201.2	6268.2	6374.7	6437.7	6473.2	6481.1	6481.1	6362.8	6319.5	6220.9	6039.6
25°	6508.7	6437.7	6587.5	6662.5	6611.2	6599.4	6571.8	6465.3	6418.0	6331.3	6090.8
27.5°	6733.4	6729.5	6816.2	6918.7	6780.7	6808.3	6709.8	6678.2	6571.8	6524.5	6181.5
30°	7040.9	7127.6	7123.7	7155.2	6973.9	7005.4	6879.3	6820.1	6761.0	6788.6	6449.6
32.5°	7435.1	7403.6	7454.8	7431.2	7249.9	7277.4	7127.6	7037.0	7056.7	7139.5	6816.2
35°	7687.4	7655.9	7675.6	7675.6	7620.4	7588.9	7525.8	7407.5	7502.2	7655.9	7226.2
37.5°	7959.5	7998.9	8113.2	8089.6	8018.6	8018.6	8010.7	7927.9	8050.1	8428.6	7880.6
40°	8199.9	8306.4	8377.3	8424.7	8507.4	8507.4	8574.5	8527.1	8747.9	9355.0	8680.9
42.5°	8452.2	8456.2	8842.5	8878.0	9063.3	9142.1	9193.4	9232.8	9646.8	10324.8	9536.4
45°	8775.5	8795.2	9134.3	9406.3	9694.1	9721.7	9914.8	10044.9	10553.5	11385.3	10466.8
47.5°	9201.3	9177.6	9540.3	9974.0	10332.7	10521.9	10754.5	10896.5	11523.3	12536.4	11483.9
50°	9761.1	9690.1	9899.1	10581.1	11002.9	11211.8	11625.8	11862.3	12595.6	13636.3	12181.6
52.5°	10443.1	10324.8	10490.4	11235.5	11708.6	12130.4	12524.6	12788.8	13553.6	14487.9	12698.1
55°	11164.5	10920.1	10967.4	11929.3	12611.4	13009.5	13549.6	13825.6	14606.1	15252.7	13214.5
57.5°	11878.1	11724.3	11629.7	12595.6	13687.6	14070.0	14566.7	14925.5	15587.8	15930.7	13652.1
60°	12477.3	12437.9	12284.1	13628.5	14826.9	15154.1	15674.5	15895.3	16395.9	16557.6	13660.0
62.5°	12970.1	12836.1	13080.5	14460.3	15985.9	16356.5	16928.1	16947.9	17302.7	16947.9	13257.9
65°	13356.4	13364.3	13754.6	15465.6	17326.3	17874.3	18335.5	18284.3	18055.6	16715.3	12307.8
67.5°	13707.3	13857.1	14428.7	16569.4	19049.1	19565.5	20078.0	19400.0	18260.6	15627.2	10451.0
70°	13983.3	14133.1	15339.4	17913.7	21079.4	21836.3	21950.6	19841.5	17318.4	13238.2	7884.6
72.5°	13951.7	14223.7	15855.8	18986.0	22881.0	23535.4	22612.9	18599.7	14428.7	9228.9	4600.6
73°	14018.7	14152.8	15812.5	19285.6	23429.0	23756.2	22305.4	18209.4	13608.7	8278.8	3891.0
75°	12725.7	13179.0	15028.0	18796.8	22841.6	22782.4	20539.3	15173.8	9674.4	4348.3	1884.4
77.5°	9414.2	9701.9	11842.6	15457.7	18749.5	18371.0	15493.2	9698.0	4592.8	1612.4	1017.1
80°	4600.6	4825.3	6276.1	8925.3	12260.5	12292.0	9615.2	5046.1	1967.2	910.7	693.8
82.5°	2298.3	2432.4	3015.8	3922.6	6031.7	6319.5	4876.6	2870.0	1218.2	516.4	394.2
85°	1502.0	1596.6	1856.8	1919.9	2558.5	2700.5	2270.8	2239.2	792.4	279.9	319.3
87.5°	997.4	1013.2	1139.3	969.8	1025.0	985.6	1096.0	1411.3	232.6	118.3	86.7
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°	6272.2	6272.2	6272.2	6272.2	6272.2	6272.2	6272.2	6272.2	6272.2	6272.2	6272.2
2.5°	6252.5	6197.3	6138.1	6055.3	5996.2	5905.5	5822.7	5787.3	5779.4	5783.3	5743.9
5°	6090.8	6012.0	5893.7	5724.2	5625.6	5475.8	5349.7	5282.7	5211.7	5223.5	5192.0
7.5°	5866.1	5779.4	5598.0	5400.9	5156.5	4943.6	4825.3	4659.8	4565.2	4494.2	4533.6
10°	5795.2	5645.3	5373.3	5101.3	4722.9	4442.9	4170.9	3981.7	3851.6	3725.5	3780.6
12.5°	5759.7	5609.9	5231.4	4829.3	4340.4	3914.7	3532.3	3299.7	3114.4	3004.0	3047.4
15°	5728.1	5542.8	5097.4	4529.7	3981.7	3421.9	2992.2	2684.7	2507.3	2400.8	2412.7
17.5°	5771.5	5507.4	4900.3	4238.0	3587.5	2988.2	2511.2	2191.9	2010.6	1943.5	1927.8
20°	5728.1	5467.9	4707.1	3946.2	3193.2	2574.3	2117.0	1852.9	1726.7	1671.5	1659.7
22.5°	5743.9	5373.3	4506.0	3623.0	2826.6	2227.4	1852.9	1651.8	1553.3	1525.7	1533.5
25°	5818.8	5318.1	4305.0	3268.1	2463.9	1971.1	1683.4	1529.6	1458.6	1431.0	1438.9
27.5°	5874.0	5365.4	4123.6	2933.1	2156.4	1742.5	1541.4	1438.9	1391.6	1371.9	1368.0
30°	6012.0	5393.0	3946.2	2633.4	1904.1	1592.7	1442.9	1360.1	1328.5	1316.7	1312.8
32.5°	6217.0	5444.3	3741.2	2357.5	1718.8	1450.8	1364.0	1293.1	1285.2	1273.4	1277.3
35°	6552.1	5621.7	3512.6	2120.9	1541.4	1356.1	1281.2	1233.9	1233.9	1233.9	1245.8
37.5°	7033.0	5870.1	3307.6	1896.2	1427.1	1273.4	1210.3	1194.5	1186.6	1198.5	1206.3
40°	7652.0	6169.7	3142.0	1718.8	1328.5	1218.2	1163.0	1155.1	1151.1	1147.2	1155.1
42.5°	8330.0	6552.1	3000.1	1580.9	1257.6	1159.0	1119.6	1111.7	1096.0	1103.8	1115.7
45°	9004.2	7025.1	2873.9	1470.5	1210.3	1127.5	1072.3	1068.4	1060.5	1056.5	1076.2
47.5°	9753.2	7490.3	2834.5	1403.5	1174.8	1080.2	1040.8	1036.8	1013.2	1009.2	1025.0
50°	10336.7	7833.3	2877.9	1371.9	1123.5	1044.7	1017.1	997.4	977.7	958.0	958.0
52.5°	10738.8	8069.8	2909.4	1348.3	1096.0	997.4	961.9	954.0	934.3	914.6	906.7
55°	11101.5	8211.8	2917.3	1352.2	1068.4	942.2	918.6	914.6	902.8	871.2	863.4
57.5°	11223.7	8152.6	2759.6	1316.7	1052.6	906.7	875.2	883.1	867.3	839.7	835.8
60°	11211.8	7742.6	2400.8	1269.4	1017.1	867.3	827.9	851.5	851.5	820.0	816.1
62.5°	10529.8	6796.5	1963.3	1178.7	977.7	827.9	784.5	820.0	831.8	812.1	808.2
65°	9114.5	5535.0	1640.0	1088.1	918.6	784.5	741.1	780.6	800.3	792.4	788.5
67.5°	7541.6	4234.0	1364.0	969.8	843.6	725.4	689.9	717.5	729.3	733.3	737.2
70°	5330.0	2818.7	1139.3	839.7	741.1	662.3	622.9	626.8	622.9	634.7	634.7
72.5°	2897.6	1624.2	926.4	713.6	638.6	575.6	548.0	528.3	528.3	524.3	524.3
73°	2479.7	1458.6	883.1	693.8	611.1	559.8	528.3	512.5	512.5	508.6	504.6
75°	1391.6	1068.4	756.9	595.3	528.3	488.8	465.2	441.5	437.6	437.6	437.6
77.5°	914.6	831.8	603.2	477.0	425.8	390.3	382.4	358.7	358.7	358.7	354.8
80°	686.0	654.4	465.2	362.7	327.2	299.6	291.7	276.0	272.0	256.2	260.2
82.5°	457.3	516.4	339.0	256.2	220.8	205.0	205.0	201.1	189.2	169.5	169.5
85°	362.7	421.8	244.4	157.7	130.1	110.4	114.3	110.4	106.4	86.7	82.8
87.5°	67.0	169.5	71.0	43.4	31.5	19.7	19.7	11.8	7.9	0.0	0.0
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)