

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: P481069

Luminaire Tested: **IFLD-L-SA7C-830-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481069  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-830-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

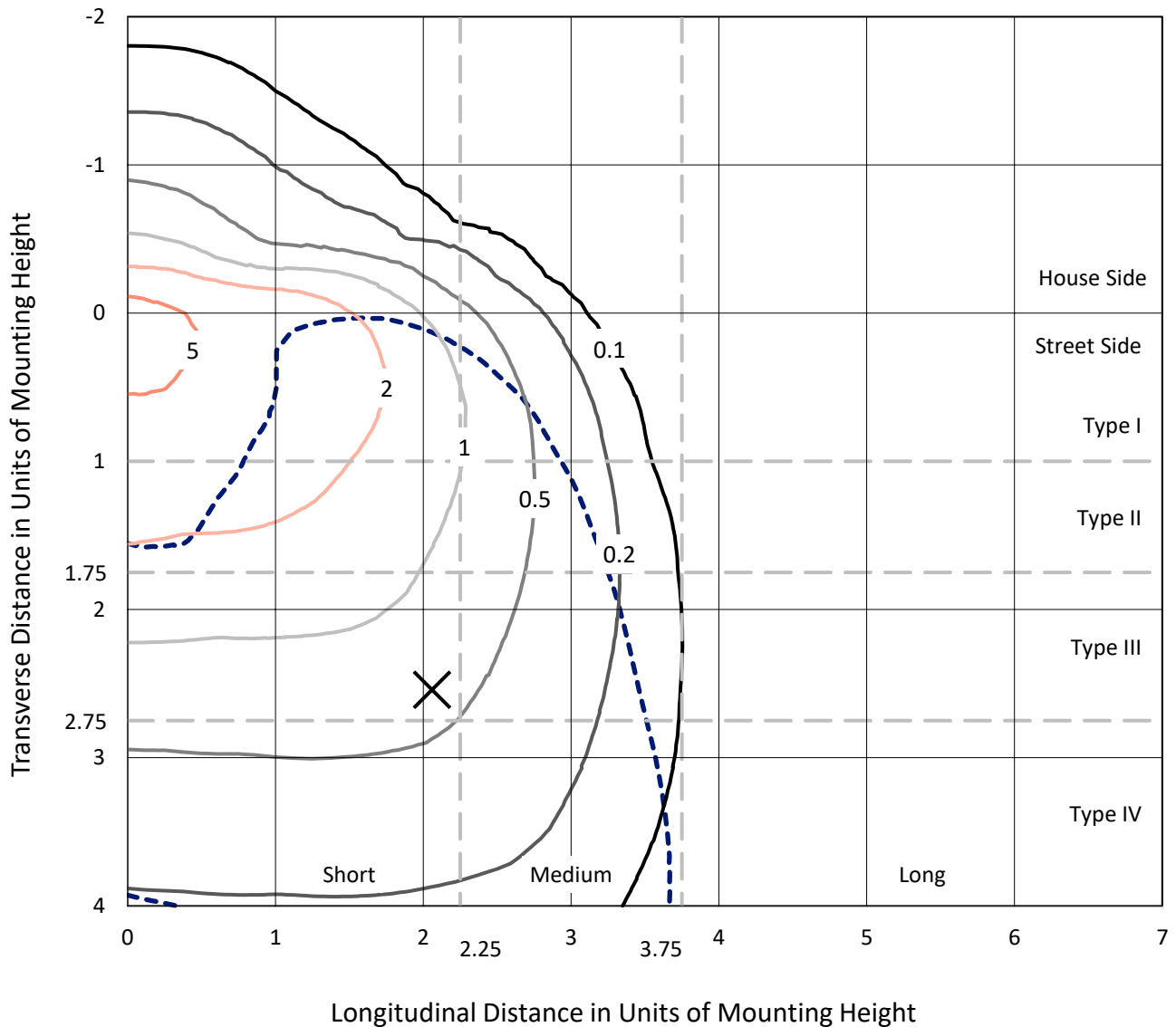
Lumens per Lamp: N/A  
Luminaire Lumens: 34072.7 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 369  
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

REPORT NUMBER: P481069  
 CATALOG NUMBER: IFLD-L-SA7C-830-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

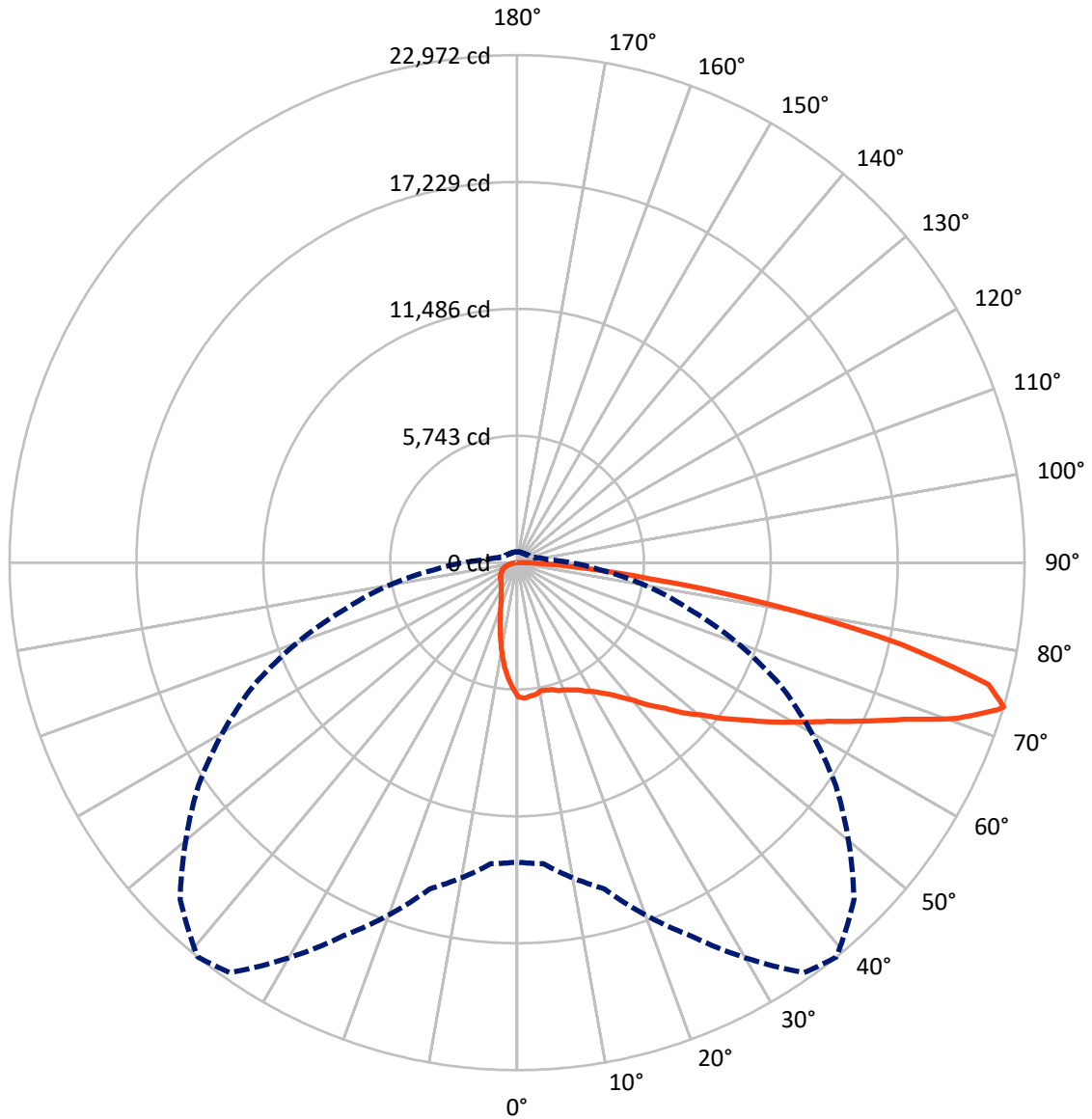
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P481069  
CATALOG NUMBER: IFLD-L-SA7C-830-U-SL4

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P481069  
 CATALOG NUMBER: IFLD-L-SA7C-830-U-SL4

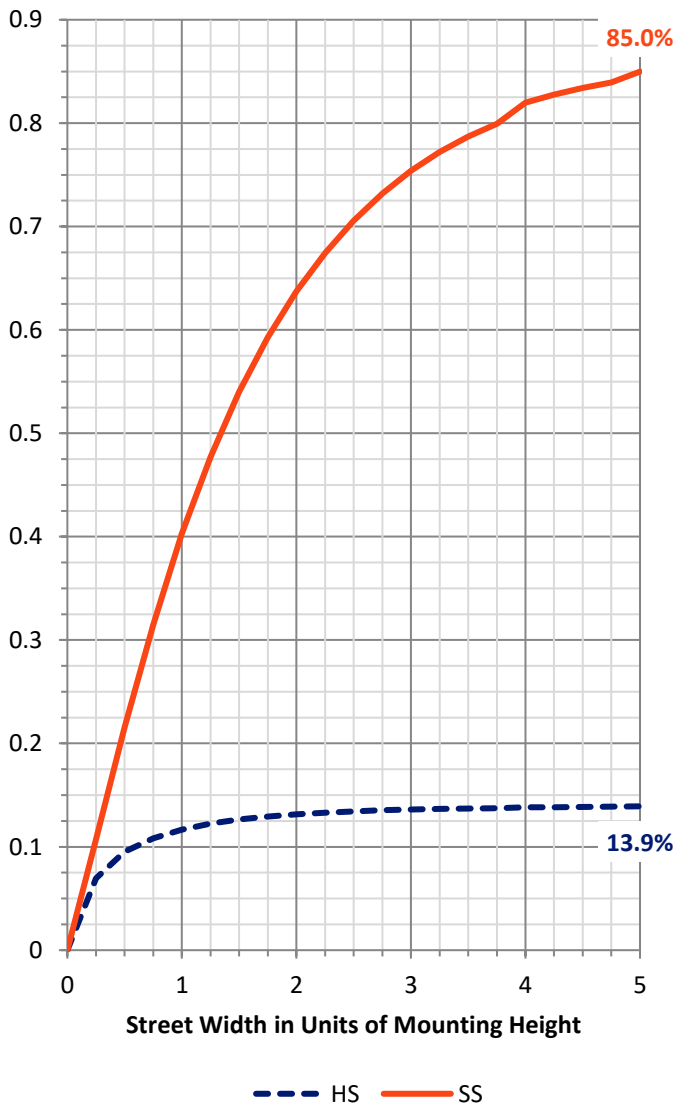
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4789.7	0.0	4789.7
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	29283.1	0.0	29283.1
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	34072.7	0.0	34072.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	526.5	1.5
10°-20°	1338.4	3.9
20°-30°	2045.3	6.0
30°-40°	2982.1	8.8
40°-50°	4506.3	13.2
50°-60°	6525.3	19.2
60°-70°	8290.7	24.3
70°-80°	6720.9	19.7
80°-90°	1137.1	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°	34072.7	100.0
0°-180°	34072.7	100.0

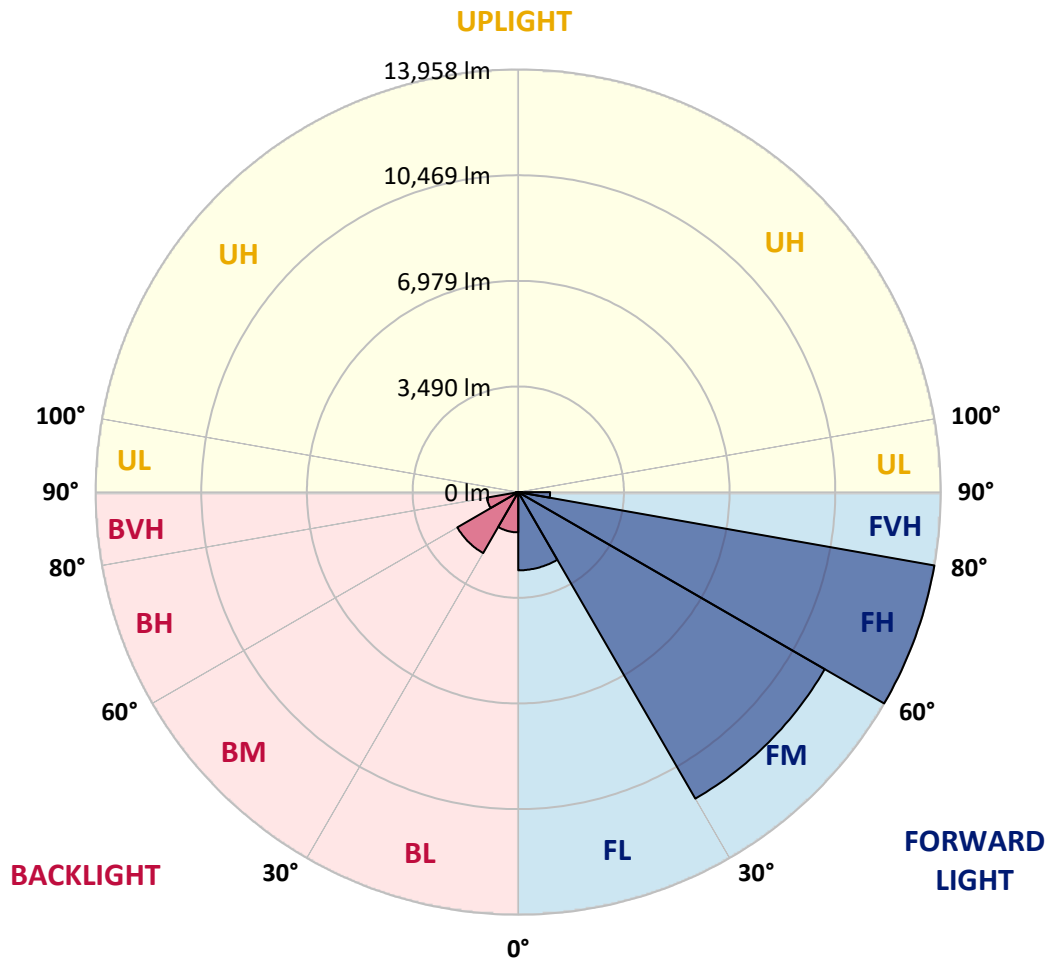


REPORT NUMBER: P481069  
 CATALOG NUMBER: IFLD-L-SA7C-830-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2582.0	7.6			
FM (30°-60°)	11689.1	34.3			
FH (60°-80°)	13958.2	41.0			G5
FVH (80°-90°)	1053.7	3.1			G5
BL (0°-30°)	1328.3	3.9	B3/2500		
BM (30°-60°)	2324.5	6.8	B2/2500		
BH (60°-80°)	1053.4	3.1	B3/2500		G3/2500
BVH (80°-90°)	83.4	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





REPORT NUMBER: P481069

CATALOG NUMBER: IFLD-L-SA7C-830-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6065.2	6065.2	6065.2	6065.2	6065.2	6065.2	6065.2	6065.2	6065.2	6065.2	6065.2
2.5°	6210.0	6145.2	6156.6	6133.8	6156.6	6149.0	6137.6	6080.4	6137.6	6080.4	6065.2
5°	6126.1	6126.1	6164.3	6107.1	6114.7	6076.6	6114.7	6072.8	6034.7	5939.4	5912.7
7.5°	6099.5	6095.6	6099.5	6019.4	6057.5	6034.7	5996.5	5950.8	5874.5	5813.5	5725.9
10°	5916.5	5954.6	5912.7	5935.5	5966.0	5897.4	5893.6	5882.2	5847.9	5767.8	5714.4
12.5°	5817.4	5882.2	5905.0	5886.0	5912.7	5920.3	5897.4	5882.2	5840.2	5786.9	5634.4
15°	5859.3	5783.1	5847.9	5973.7	5947.0	5966.0	5969.8	5954.6	5935.5	5836.4	5737.3
17.5°	5870.7	5825.0	5962.2	5988.9	6023.2	6091.8	6046.1	6042.3	5969.8	5901.2	5756.4
20°	5897.4	5878.4	5988.9	6130.0	6133.8	6145.2	6168.1	6110.9	6072.8	5954.6	5733.5
22.5°	5996.5	6061.3	6164.3	6225.3	6259.6	6267.2	6267.2	6152.8	6110.9	6015.6	5840.2
25°	6293.9	6225.3	6370.1	6442.6	6393.0	6381.6	6354.9	6251.9	6206.2	6122.3	5889.8
27.5°	6511.2	6507.4	6591.2	6690.3	6556.9	6583.6	6488.3	6457.8	6354.9	6309.1	5977.5
30°	6808.5	6892.4	6888.6	6919.1	6743.7	6774.2	6652.2	6595.0	6537.9	6564.5	6236.7
32.5°	7189.7	7159.2	7208.8	7185.9	7010.6	7037.3	6892.4	6804.7	6823.8	6903.8	6591.2
35°	7433.7	7403.2	7422.3	7422.3	7368.9	7338.4	7277.4	7163.1	7254.5	7403.2	6987.7
37.5°	7696.8	7734.9	7845.4	7822.6	7753.9	7753.9	7746.3	7666.3	7784.4	8150.4	7620.5
40°	7929.3	8032.2	8100.8	8146.6	8226.6	8226.6	8291.5	8245.7	8459.2	9046.3	8394.4
42.5°	8173.3	8177.1	8550.7	8585.0	8764.2	8840.4	8890.0	8928.1	9328.4	9984.1	9221.6
45°	8485.9	8504.9	8832.8	9095.8	9374.1	9400.8	9587.6	9713.4	10205.2	11009.5	10121.3
47.5°	8897.6	8874.7	9225.4	9644.8	9991.7	10174.7	10399.6	10536.8	11143.0	12122.7	11104.8
50°	9438.9	9370.3	9572.3	10231.8	10639.7	10841.8	11242.1	11470.8	12179.9	13186.3	11779.6
52.5°	10098.4	9984.1	10144.2	10864.7	11322.1	11730.0	12111.2	12366.7	13106.2	14009.7	12279.0
55°	10796.0	10559.7	10605.4	11535.6	12195.1	12580.1	13102.4	13369.3	14124.1	14749.3	12778.4
57.5°	11486.0	11337.4	11245.9	12179.9	13235.8	13605.6	14085.9	14432.9	15073.3	15405.0	13201.5
60°	12065.5	12027.4	11878.7	13178.6	14337.5	14654.0	15157.2	15370.6	15854.8	16011.1	13209.1
62.5°	12542.0	12412.4	12648.8	13983.0	15458.3	15816.7	16369.4	16388.5	16731.6	16388.5	12820.3
65°	12915.6	12923.2	13300.6	14955.1	16754.5	17284.3	17730.4	17680.8	17459.7	16163.6	11901.6
67.5°	13254.9	13399.8	13952.5	16022.5	18420.4	18919.8	19415.3	18759.7	17657.9	15111.4	10106.0
70°	13521.7	13666.6	14833.1	17322.5	20383.6	21115.6	21226.1	19186.6	16746.8	12801.2	7624.3
72.5°	13491.2	13754.3	15332.5	18359.4	22125.8	22758.6	21866.6	17985.8	13952.5	8924.3	4448.8
73°	13556.1	13685.7	15290.6	18649.1	22655.7	22972.1	21569.2	17608.4	13159.6	8005.5	3762.6
75°	12305.7	12744.1	14532.0	18176.4	22087.7	22030.5	19861.4	14673.0	9355.0	4204.8	1822.2
77.5°	9103.4	9381.7	11451.7	14947.5	18130.6	17764.7	14981.8	9377.9	4441.2	1559.2	983.5
80°	4448.8	4666.1	6069.0	8630.7	11855.8	11886.3	9297.9	4879.6	1902.3	880.6	670.9
82.5°	2222.5	2352.1	2916.3	3793.1	5832.6	6110.9	4715.6	2775.3	1178.0	499.4	381.2
85°	1452.4	1543.9	1795.5	1856.5	2474.1	2611.3	2195.8	2165.3	766.2	270.7	308.8
87.5°	964.5	979.7	1101.7	937.8	991.2	953.0	1059.8	1364.8	224.9	114.4	83.9
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: P481069  
 CATALOG NUMBER: IFLD-L-SA7C-830-U-SL4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6065.2	6065.2	6065.2	6065.2	6065.2	6065.2	6065.2	6065.2	6065.2	6065.2	6065.2
2.5°	6046.1	5992.7	5935.5	5855.5	5798.3	5710.6	5630.6	5596.3	5588.6	5592.4	5554.3
5°	5889.8	5813.5	5699.2	5535.3	5440.0	5295.1	5173.1	5108.3	5039.7	5051.1	5020.6
7.5°	5672.5	5588.6	5413.3	5222.7	4986.3	4780.5	4666.1	4506.0	4414.5	4345.9	4384.0
10°	5603.9	5459.0	5196.0	4932.9	4567.0	4296.3	4033.3	3850.3	3724.5	3602.5	3655.9
12.5°	5569.6	5424.7	5058.7	4669.9	4197.2	3785.5	3415.7	3190.8	3011.6	2904.9	2946.8
15°	5539.1	5359.9	4929.1	4380.2	3850.3	3309.0	2893.4	2596.1	2424.5	2321.6	2333.0
17.5°	5581.0	5325.6	4738.5	4098.1	3469.1	2889.6	2428.3	2119.6	1944.2	1879.4	1864.1
20°	5539.1	5287.5	4551.7	3816.0	3087.9	2489.3	2047.1	1791.7	1669.7	1616.4	1604.9
22.5°	5554.3	5196.0	4357.3	3503.4	2733.3	2153.9	1791.7	1597.3	1502.0	1475.3	1482.9
25°	5626.8	5142.6	4162.9	3160.3	2382.6	1906.1	1627.8	1479.1	1410.5	1383.8	1391.4
27.5°	5680.1	5188.4	3987.5	2836.2	2085.3	1685.0	1490.6	1391.4	1345.7	1326.6	1322.8
30°	5813.5	5215.0	3816.0	2546.5	1841.3	1540.1	1395.3	1315.2	1284.7	1273.3	1269.5
32.5°	6011.8	5264.6	3617.7	2279.7	1662.1	1402.9	1319.0	1250.4	1242.8	1231.3	1235.1
35°	6335.8	5436.1	3396.6	2050.9	1490.6	1311.4	1239.0	1193.2	1193.2	1193.2	1204.6
37.5°	6800.9	5676.3	3198.4	1833.7	1380.0	1231.3	1170.3	1155.1	1147.5	1158.9	1166.5
40°	7399.4	5966.0	3038.3	1662.1	1284.7	1178.0	1124.6	1117.0	1113.2	1109.3	1117.0
42.5°	8055.1	6335.8	2901.1	1528.7	1216.1	1120.8	1082.7	1075.0	1059.8	1067.4	1078.8
45°	8707.0	6793.3	2779.1	1421.9	1170.3	1090.3	1036.9	1033.1	1025.5	1021.7	1040.7
47.5°	9431.3	7243.1	2740.9	1357.1	1136.0	1044.5	1006.4	1002.6	979.7	975.9	991.2
50°	9995.5	7574.8	2782.9	1326.6	1086.5	1010.2	983.5	964.5	945.4	926.4	926.4
52.5°	10384.3	7803.5	2813.4	1303.8	1059.8	964.5	930.2	922.5	903.5	884.4	876.8
55°	10735.1	7940.7	2821.0	1307.6	1033.1	911.1	888.2	884.4	873.0	842.5	834.9
57.5°	10853.2	7883.6	2668.5	1273.3	1017.8	876.8	846.3	853.9	838.7	812.0	808.2
60°	10841.8	7487.1	2321.6	1227.5	983.5	838.7	800.6	823.4	823.4	792.9	789.1
62.5°	10182.3	6572.2	1898.5	1139.8	945.4	800.6	758.6	792.9	804.4	785.3	781.5
65°	8813.7	5352.3	1585.9	1052.2	888.2	758.6	716.7	754.8	773.9	766.2	762.4
67.5°	7292.7	4094.3	1319.0	937.8	815.8	701.4	667.1	693.8	705.3	709.1	712.9
70°	5154.0	2725.7	1101.7	812.0	716.7	640.4	602.3	606.1	602.3	613.8	613.8
72.5°	2801.9	1570.6	895.9	690.0	617.6	556.6	529.9	510.8	510.8	507.0	507.0
73°	2397.9	1410.5	853.9	670.9	590.9	541.3	510.8	495.6	495.6	491.8	488.0
75°	1345.7	1033.1	731.9	575.6	510.8	472.7	449.8	427.0	423.2	423.2	423.2
77.5°	884.4	804.4	583.3	461.3	411.7	377.4	369.8	346.9	346.9	346.9	343.1
80°	663.3	632.8	449.8	350.7	316.4	289.7	282.1	266.9	263.0	247.8	251.6
82.5°	442.2	499.4	327.8	247.8	213.5	198.2	198.2	194.4	183.0	163.9	163.9
85°	350.7	407.9	236.4	152.5	125.8	106.7	110.6	106.7	102.9	83.9	80.1
87.5°	64.8	163.9	68.6	41.9	30.5	19.1	19.1	11.4	7.6	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)