

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: P478656

Luminaire Tested: **IFLD-L-SA8C-760-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478656  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-760-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (128) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

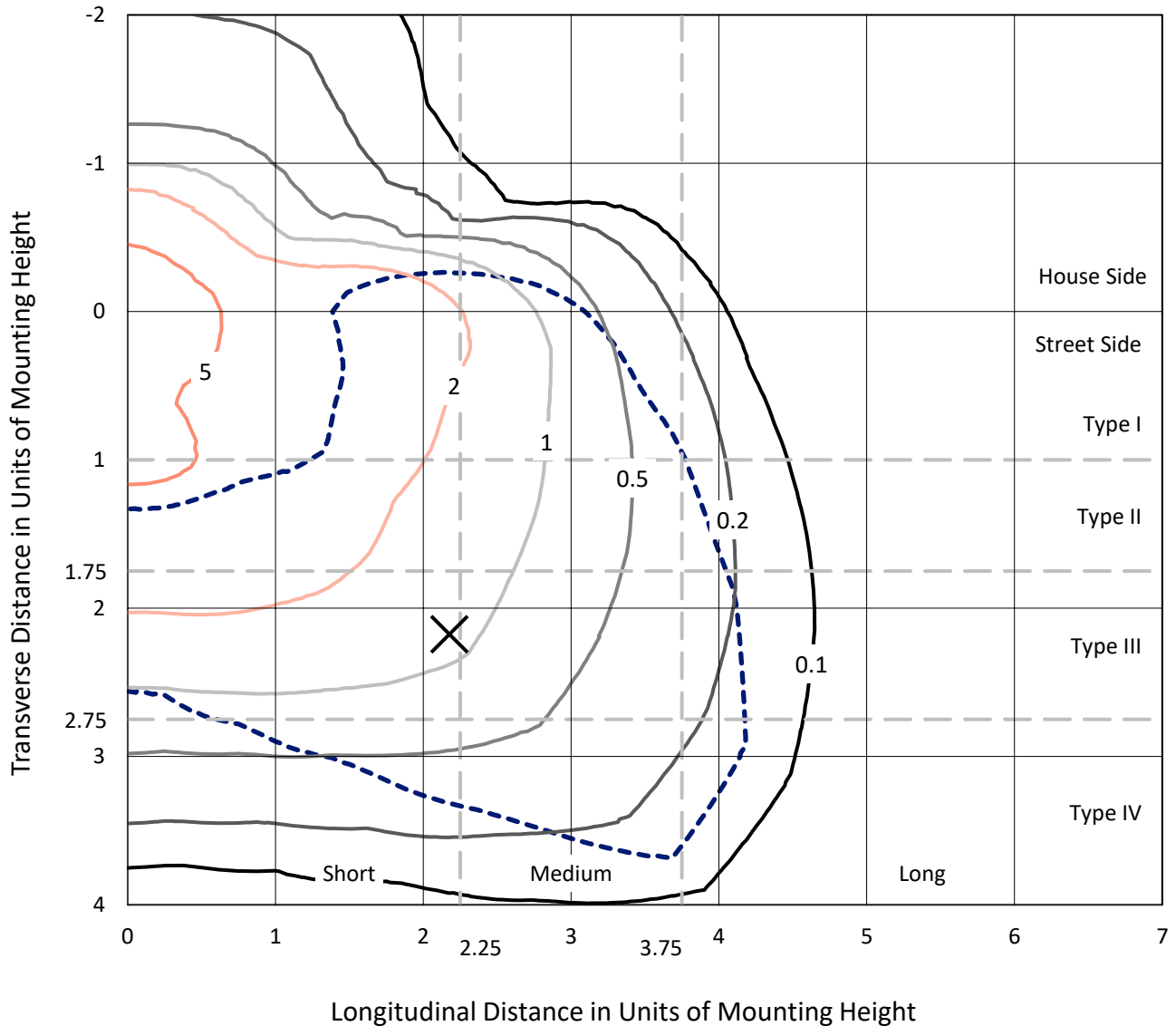
Lumens per Lamp: N/A  
Luminaire Lumens: 52382.8 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

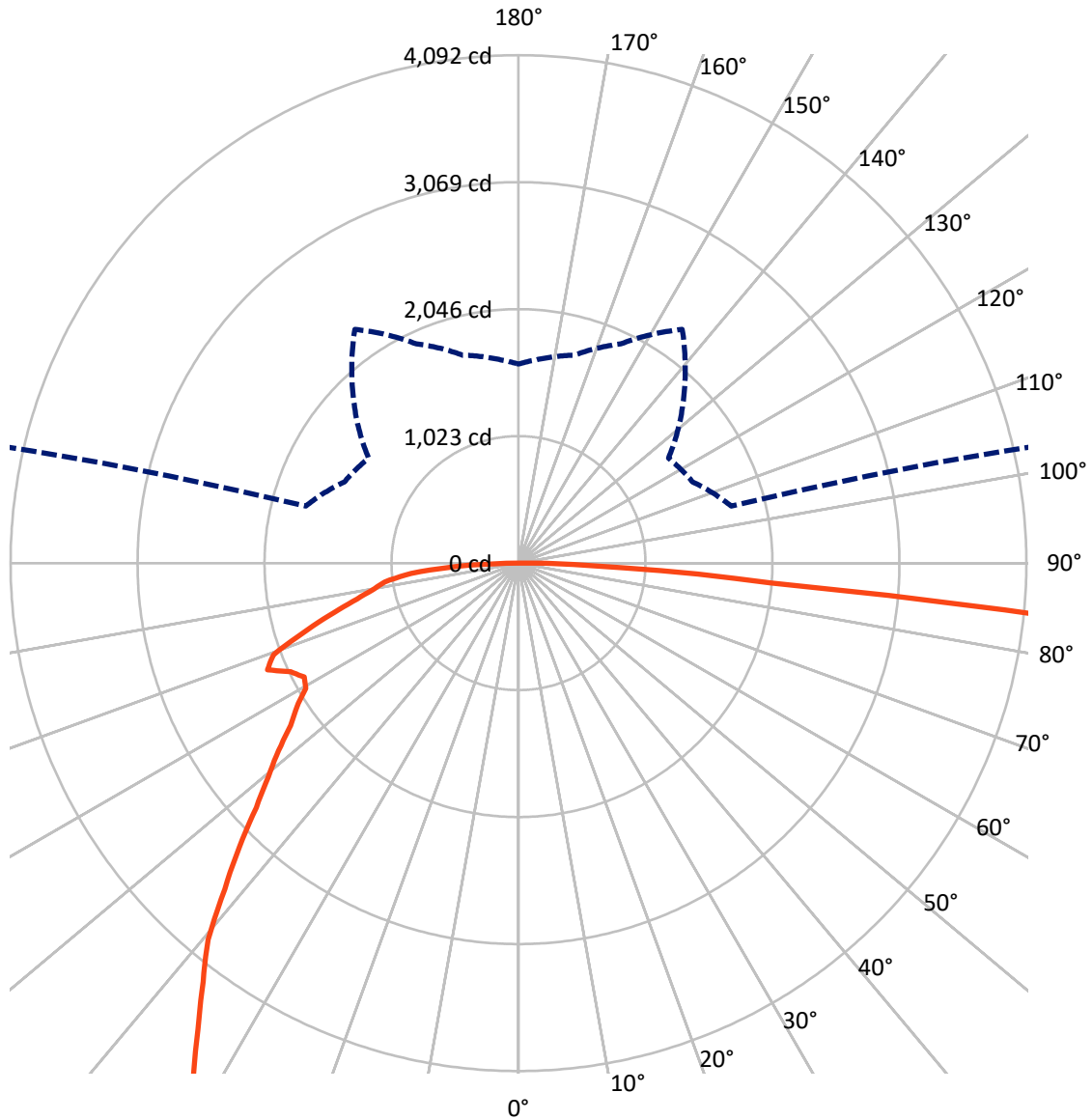
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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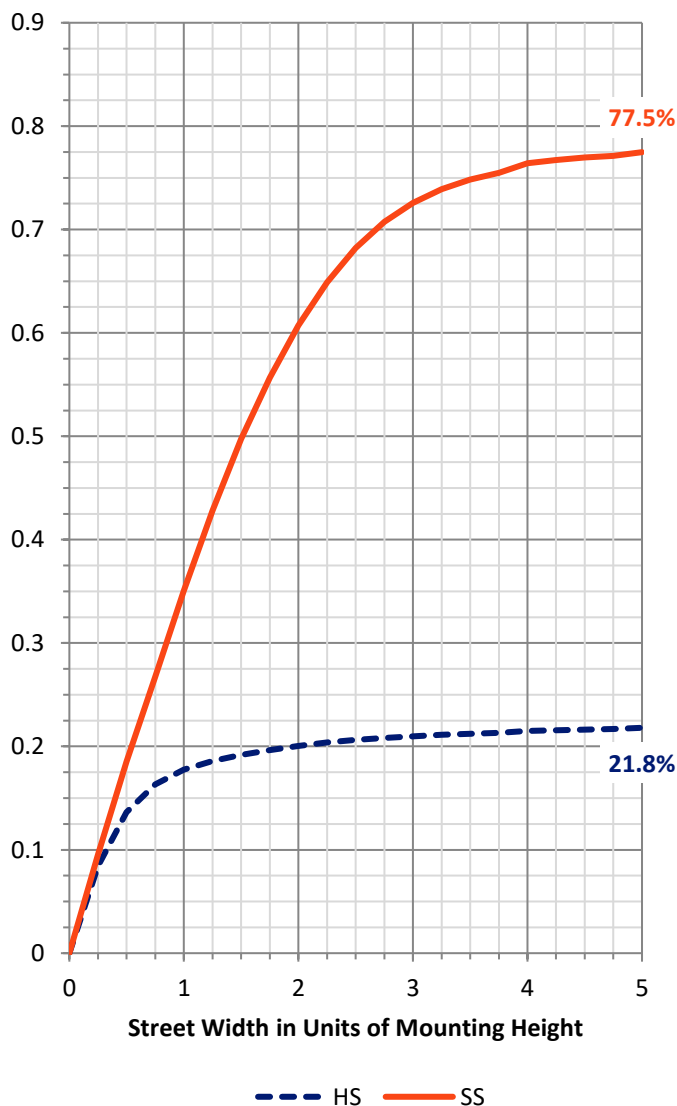
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11660.7	0.0	11660.7
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	40722.1	0.0	40722.1
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	52382.8	0.0	52382.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	552.0	1.1
10°-20°	1836.6	3.5
20°-30°	3101.4	5.9
30°-40°	4291.9	8.2
40°-50°	6139.1	11.7
50°-60°	9901.7	18.9
60°-70°	14603.6	27.9
70°-80°	10604.7	20.2
80°-90°	1351.8	2.6
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°	52382.8	100.0
0°-180°	52382.8	100.0

**Coefficient of Utilization**



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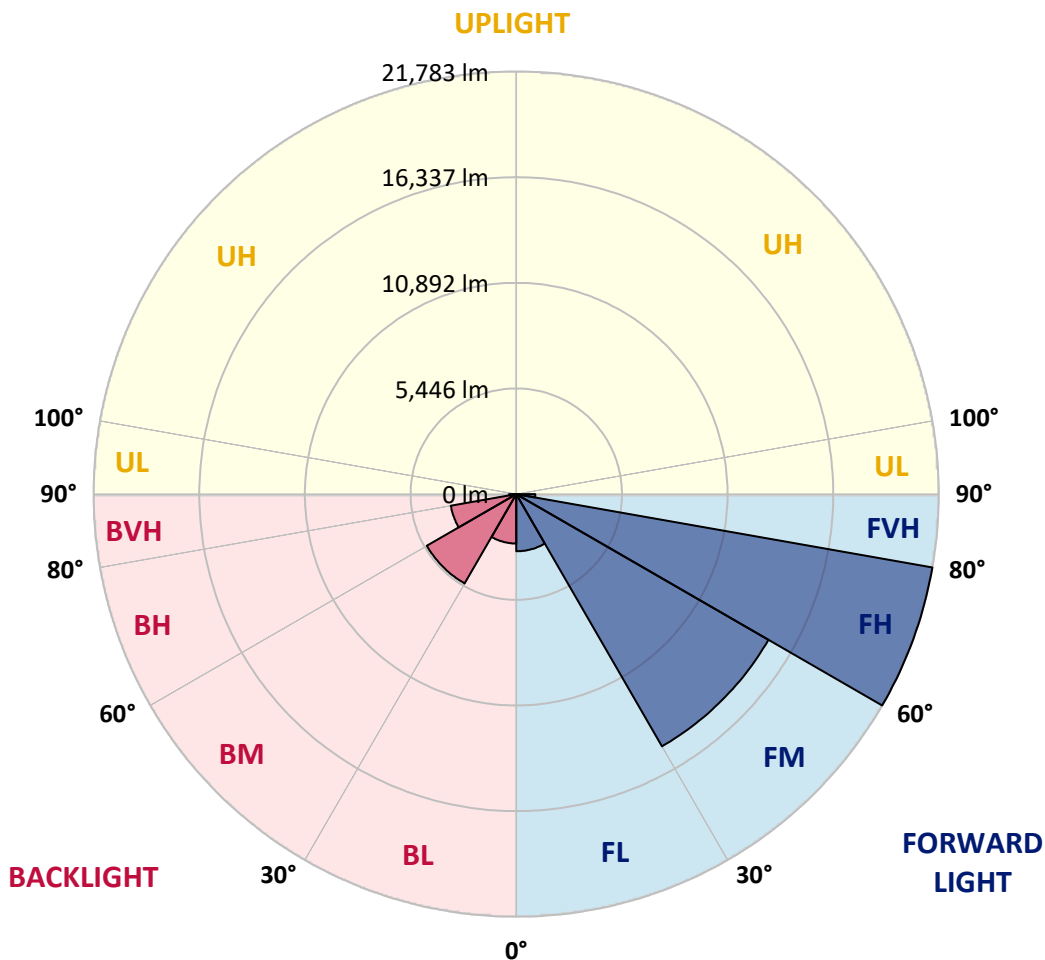
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2943.9	5.6			
FM (30°-60°)	15011.1	28.7			
FH (60°-80°)	21783.1	41.6			G5
FVH (80°-90°)	983.9	1.9			G5
BL (0°-30°)	2546.0	4.9	B4/5000		
BM (30°-60°)	5321.6	10.2	B4/8500		
BH (60°-80°)	3425.2	6.5	B4/5000		G4/5000
BVH (80°-90°)	367.9	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	5394.5	5394.5	5394.5	5394.5	5394.5	5394.5	5394.5	5394.5	5394.5	5394.5	5394.5
2.5°	5682.6	5716.5	5682.6	5676.9	5620.4	5580.9	5614.8	5563.9	5507.5	5484.9	5434.0
5°	6202.2	6207.9	6145.8	6151.4	6032.8	5908.5	5931.1	5778.6	5614.8	5552.6	5451.0
7.5°	6733.2	6671.1	6580.7	6552.5	6366.1	6230.5	6213.5	6078.0	5823.8	5682.6	5541.3
10°	7077.8	7100.4	6953.5	6829.2	6671.1	6507.3	6501.6	6247.4	6100.6	5891.6	5710.8
12.5°	7382.8	7388.5	7264.2	7066.5	6868.8	6665.4	6693.7	6580.7	6332.2	6134.5	5953.7
15°	7620.1	7586.2	7450.6	7269.8	7060.8	6902.7	6885.7	6789.7	6580.7	6416.9	6117.5
17.5°	7687.8	7670.9	7535.3	7343.3	7139.9	7021.3	7066.5	6908.3	6823.6	6676.7	6388.6
20°	7557.9	7518.4	7495.8	7281.1	7134.3	7123.0	7083.4	7117.3	6976.1	6840.5	6631.5
22.5°	7320.7	7303.7	7292.4	7123.0	7055.2	7106.0	7173.8	7224.7	7202.1	7072.1	6834.9
25°	7077.8	7156.9	7083.4	7004.4	7100.4	7230.3	7213.4	7377.2	7377.2	7337.6	7139.9
27.5°	7247.2	7196.4	7139.9	7100.4	7134.3	7337.6	7326.3	7524.0	7597.5	7524.0	7298.1
30°	7670.9	7620.1	7456.2	7281.1	7236.0	7456.2	7512.7	7687.8	7721.7	7541.0	7348.9
32.5°	8467.4	8439.1	8179.3	7665.3	7388.5	7512.7	7541.0	7738.7	7710.4	7597.5	7518.4
35°	9647.9	9551.9	9190.4	8320.5	7710.4	7586.2	7512.7	7670.9	7778.2	7721.7	7648.3
37.5°	10941.5	10834.2	10387.9	9286.4	8292.3	7783.9	7727.4	7857.3	7981.6	7953.3	7800.8
40°	12178.5	12178.5	11777.5	10495.2	9156.5	8264.0	8275.3	8128.4	8241.4	8190.6	8218.8
42.5°	13398.7	13353.5	13189.7	11913.1	10082.9	9066.1	8885.4	8518.2	8721.6	8704.6	8744.1
45°	14635.7	14601.8	14556.6	13234.8	11410.3	10150.7	10054.6	9393.7	9580.2	9501.1	9670.5
47.5°	15624.2	15663.8	15663.8	14709.1	12828.1	11596.7	11455.5	10410.5	10766.4	10805.9	10845.5
50°	16465.9	16482.8	16465.9	16115.7	14409.8	13251.8	12963.7	11901.8	12257.6	12568.3	12929.8
52.5°	17629.5	17652.1	17573.0	17437.5	16556.3	14991.6	14669.6	13489.0	14217.7	14545.3	15194.9
55°	19064.3	18894.8	18747.9	18849.6	18618.0	16906.5	16573.2	15127.1	16223.0	16657.9	17957.1
57.5°	19329.8	19476.6	19849.4	20657.2	20990.5	18770.5	18578.5	17138.1	18488.1	18866.6	21035.7
60°	20267.4	20024.5	20939.6	22690.7	23063.5	21199.5	21001.8	19341.1	20741.9	21137.3	23876.9
62.5°	20883.1	20871.8	22227.5	24306.2	25153.5	23718.8	23317.7	22204.9	23176.5	23560.6	26972.4
65°	20702.4	20866.2	23272.5	25255.2	26899.0	26582.7	26351.1	24667.8	25950.0	25916.1	28989.0
67.5°	19053.0	19516.2	22611.6	25938.7	29497.4	30073.5	30000.1	28130.4	28203.8	27486.4	29887.1
70°	16765.3	16607.1	19815.5	25227.0	30796.6	34214.0	34197.1	30706.2	30231.7	27831.0	27311.3
72°	12879.0	12703.9	15341.8	21662.7	30113.1	35869.1	36377.5	32491.2	30209.1	26401.9	22560.8
72.5°	11692.8	11540.2	14166.9	20391.7	29356.2	36298.4	36061.1	32559.0	29971.9	25729.7	21075.2
75°	5383.2	5208.1	7077.8	12483.6	22899.7	32163.5	32971.3	30468.9	26176.0	20482.1	12624.8
77.5°	1604.2	1553.4	2276.4	5038.6	13308.3	23696.2	24006.9	22990.1	18273.5	11218.3	4682.8
80°	892.5	898.1	1174.9	1886.7	5852.0	13698.0	14816.5	14200.8	8964.4	3705.5	1559.0
82.5°	497.1	525.3	734.3	1118.4	2688.8	6287.0	6767.1	6524.2	3242.3	1739.8	852.9
85°	259.8	271.1	384.1	598.8	1525.1	1988.3	2044.8	2191.7	1683.3	1186.2	457.5
87.5°	101.7	101.7	141.2	248.5	564.9	615.7	553.6	672.2	965.9	768.2	225.9
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°	5394.5	5394.5	5394.5	5394.5	5394.5	5394.5	5394.5	5394.5	5394.5	5394.5	5394.5
2.5°	5479.2	5434.0	5428.4	5354.9	5377.5	5315.4	5321.1	5309.8	5315.4	5304.1	5275.9
5°	5451.0	5417.1	5321.1	5383.2	5326.7	5405.8	5467.9	5445.3	5462.3	5456.6	5462.3
7.5°	5490.5	5445.3	5434.0	5400.1	5451.0	5484.9	5535.7	5676.9	5665.6	5682.6	5716.5
10°	5609.1	5558.3	5524.4	5575.2	5547.0	5654.3	5710.8	5784.2	5914.2	5919.8	5852.0
12.5°	5840.7	5806.8	5739.1	5750.3	5846.4	5880.3	5914.2	5959.4	6044.1	6027.1	6089.3
15°	6106.2	6032.8	5993.2	5981.9	6004.5	6044.1	6038.4	6083.6	6128.8	6168.4	6151.4
17.5°	6298.3	6202.2	6213.5	6270.0	6264.4	6253.1	6179.6	6157.1	6179.6	6202.2	6190.9
20°	6496.0	6507.3	6422.5	6371.7	6349.1	6236.1	6179.6	6111.9	6044.1	6078.0	6128.8
22.5°	6744.5	6693.7	6569.4	6416.9	6303.9	6236.1	6061.0	5942.4	5942.4	5976.3	5959.4
25°	7027.0	6919.6	6705.0	6428.2	6287.0	5998.9	5874.6	5857.7	5812.5	5863.3	5885.9
27.5°	7247.2	7151.2	6857.5	6388.6	5998.9	5767.3	5693.9	5671.3	5744.7	5750.3	5840.7
30°	7337.6	7309.4	6880.1	6287.0	5705.2	5332.3	5287.2	5388.8	5467.9	5586.5	5592.2
32.5°	7456.2	7467.5	6914.0	6049.7	5321.1	4948.2	4880.5	5004.7	5230.7	5326.7	5400.1
35°	7654.0	7710.4	6885.7	5756.0	4914.3	4558.5	4547.2	4581.1	4801.4	4970.8	5066.9
37.5°	7998.5	7987.2	6880.1	5405.8	4592.4	4219.6	4129.2	4140.5	4287.3	4428.6	4411.6
40°	8461.7	8416.5	6863.1	4948.2	4174.4	3931.5	3779.0	3722.5	3711.2	3671.6	3682.9
42.5°	9094.4	9004.0	6857.5	4485.0	3795.9	3536.1	3428.7	3281.9	3174.6	2971.2	2982.5
45°	9975.6	9817.4	6710.6	4050.1	3423.1	3208.4	3044.6	2937.3	2705.7	2451.5	2451.5
47.5°	11336.9	10822.9	6716.3	3570.0	3061.6	2886.5	2773.5	2587.1	2338.6	2135.2	2112.6
50°	13342.2	12167.2	6524.2	3191.5	2767.9	2649.2	2530.6	2316.0	2078.7	1937.5	1954.4
52.5°	15929.3	14172.5	6518.6	2852.6	2536.3	2451.5	2321.6	2129.5	1954.4	1864.1	1830.2
55°	19013.4	16827.4	6721.9	2575.8	2299.0	2253.8	2197.3	2039.2	1869.7	1790.6	1785.0
57.5°	22171.0	19420.1	7049.5	2378.1	2095.7	2129.5	2090.0	1965.7	1830.2	1739.8	1728.5
60°	24978.4	21476.3	6388.6	2140.8	1914.9	1988.3	2044.8	1937.5	1864.1	1858.4	1818.9
62.5°	27096.7	22357.5	4857.9	1960.1	1818.9	1954.4	2107.0	2174.7	2140.8	2186.0	2191.7
65°	27870.6	21826.5	3344.0	1864.1	1745.4	2033.5	2372.4	2349.8	2152.1	2067.4	2112.6
67.5°	26786.0	19674.3	2479.8	1751.1	1694.6	2197.3	2525.0	2242.5	1943.1	1931.8	1898.0
70°	23035.3	16674.9	2022.2	1632.5	1609.9	2107.0	2457.2	2078.7	1830.2	1756.7	1722.8
72°	18352.5	12986.3	1773.7	1547.7	1474.3	1881.0	2299.0	1948.8	1734.1	1643.8	1604.2
72.5°	16754.0	12037.3	1739.8	1508.2	1446.1	1830.2	2219.9	1909.3	1711.5	1632.5	1570.3
75°	9190.4	6162.7	1530.8	1383.9	1220.1	1581.6	2056.1	1790.6	1615.5	1502.5	1491.2
77.5°	3417.4	2389.4	1321.8	1225.8	1056.3	1367.0	1869.7	1700.3	1468.7	1327.4	1299.2
80°	1310.5	1259.7	1078.9	1033.7	886.8	1197.5	1722.8	1525.1	1248.4	1107.1	1062.0
82.5°	796.5	734.3	819.1	807.8	677.8	1090.2	1621.2	1429.1	1107.1	898.1	869.9
85°	434.9	434.9	570.5	547.9	474.5	869.9	1225.8	949.0	700.4	576.2	587.5
87.5°	192.1	225.9	305.0	288.1	259.8	491.4	598.8	502.7	350.2	237.2	254.2
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)