

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: P478305

Luminaire Tested: **IFLD-L-SA8C-827-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478305  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-827-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (128) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

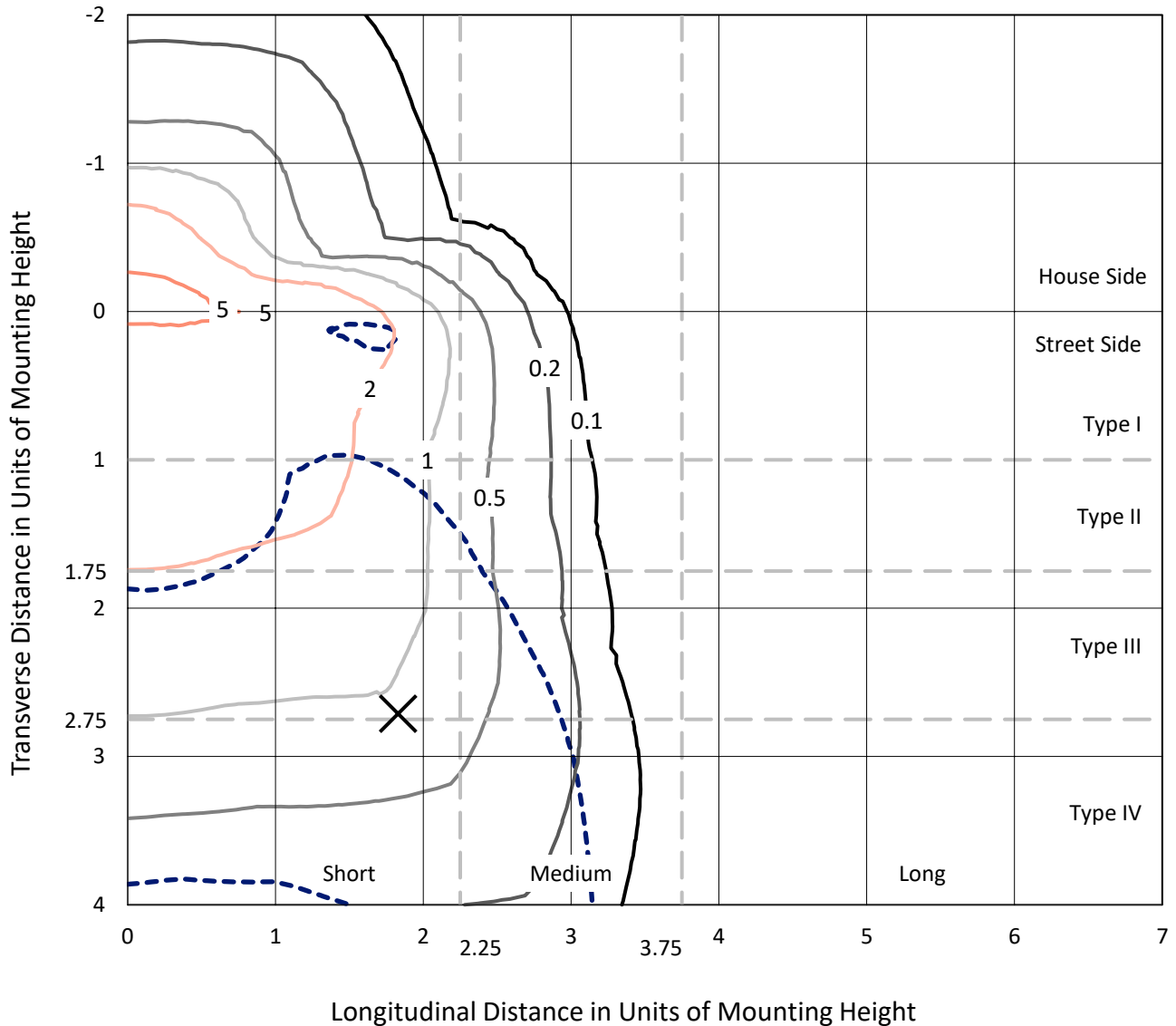
Lumens per Lamp: N/A  
Luminaire Lumens: 38155.2 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3  
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: P478305  
 CATALOG NUMBER: IFLD-L-SA8C-827-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

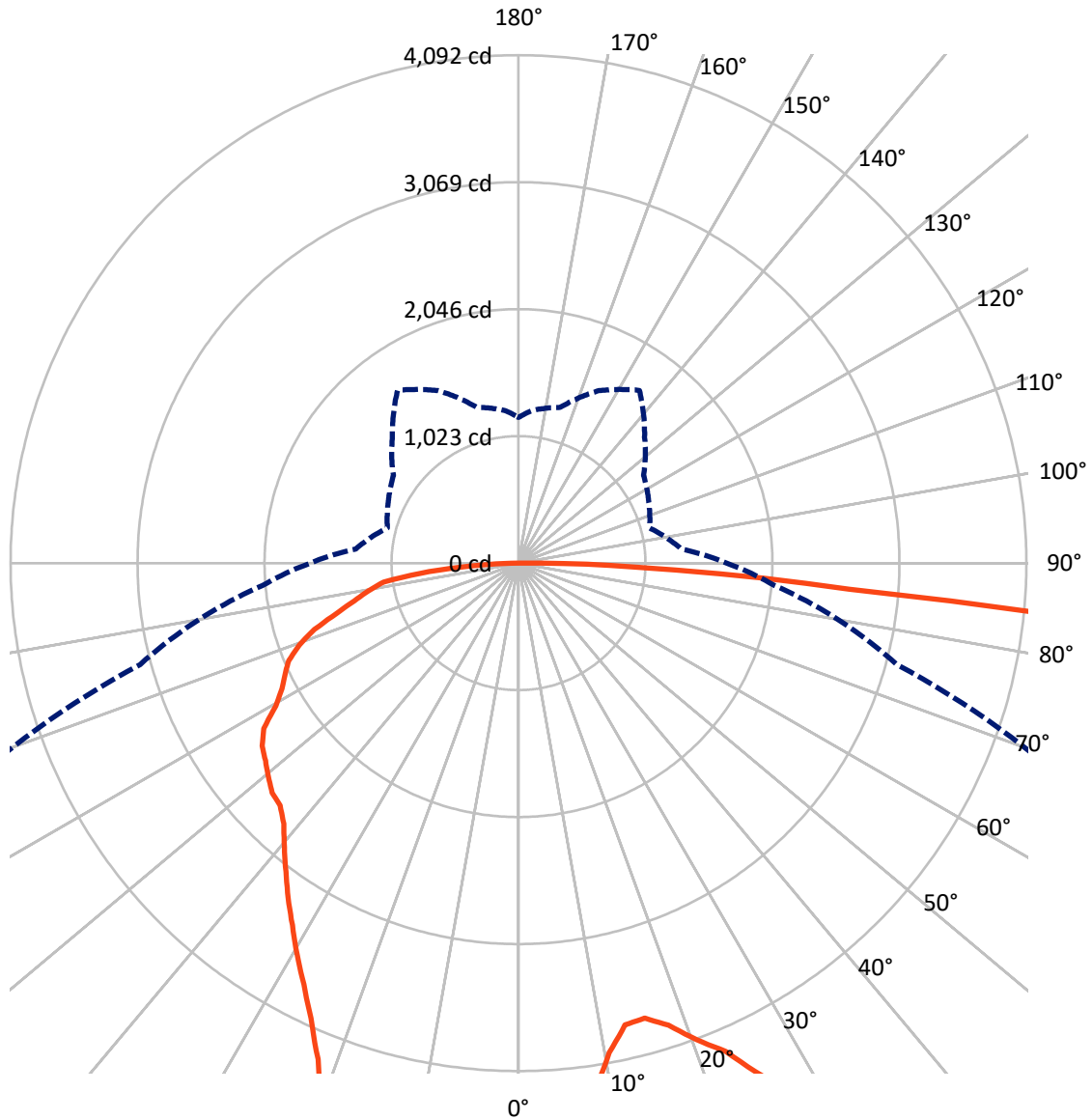
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P478305  
CATALOG NUMBER: IFLD-L-SA8C-827-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P478305  
 CATALOG NUMBER: IFLD-L-SA8C-827-U-T4FT

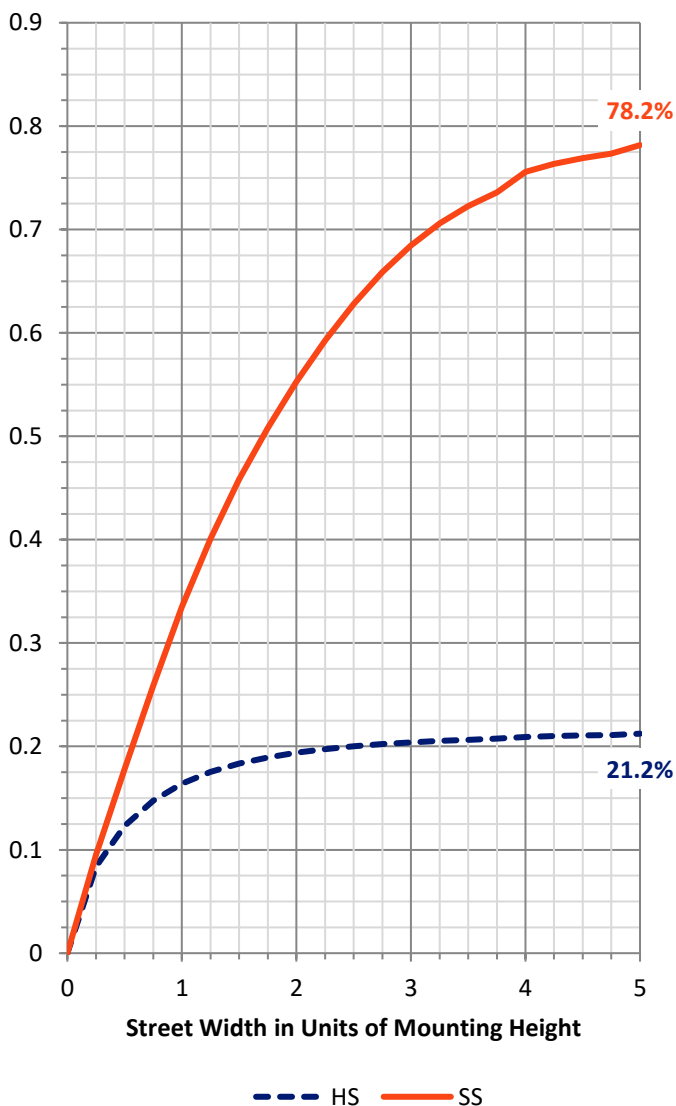
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8242.0	0.0	8242.0
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	29913.2	0.0	29913.2
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	38155.2	0.0	38155.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	504.9	1.3
10°-20°	1412.9	3.7
20°-30°	2325.5	6.1
30°-40°	3477.7	9.1
40°-50°	5155.5	13.5
50°-60°	7429.7	19.5
60°-70°	9481.3	24.8
70°-80°	7378.0	19.3
80°-90°	989.8	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°	38155.2	100.0
0°-180°	38155.2	100.0

**Coefficient of Utilization**



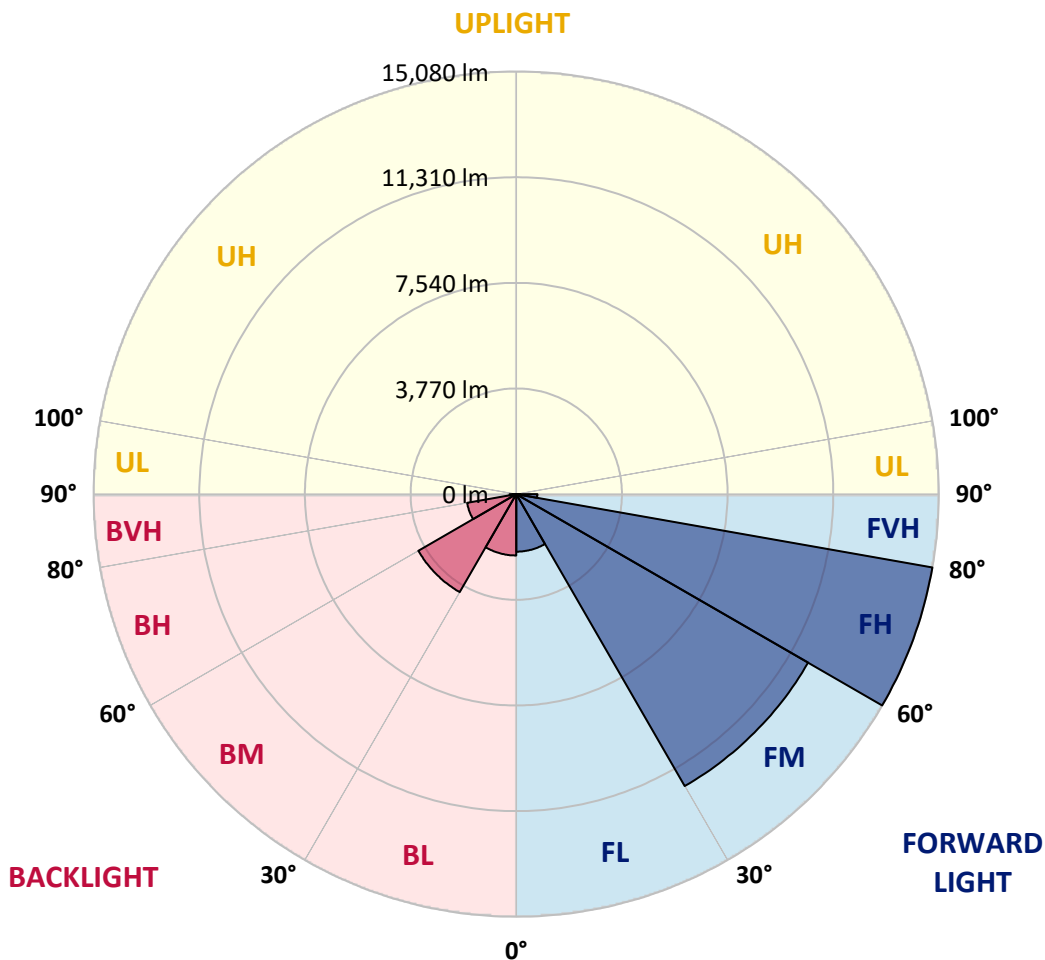
REPORT NUMBER: P478305  
 CATALOG NUMBER: IFLD-L-SA8C-827-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2053.4	5.4			
FM (30°-60°)	12026.8	31.5			
FH (60°-80°)	15079.6	39.5			G5
FVH (80°-90°)	753.4	2.0			G5
BL (0°-30°)	2189.8	5.7	B3/2500		
BM (30°-60°)	4036.1	10.6	B3/5000		
BH (60°-80°)	1779.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	236.4	0.6			G3/500
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: P478305

CATALOG NUMBER: IFLD-L-SA8C-827-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2
2.5°	4901.4	4917.5	4969.9	4982.0	5038.5	5006.2	5074.8	5195.8	5264.4	5365.3	5486.3
5°	4514.1	4445.5	4477.8	4602.8	4667.4	4683.5	4756.1	4961.9	5091.0	5240.2	5466.1
7.5°	4058.2	4046.1	4110.7	4191.4	4320.5	4332.6	4493.9	4675.4	4941.7	5272.5	5538.7
10°	3747.6	3800.1	3836.4	3921.1	4009.8	4009.8	4215.6	4530.2	4832.8	5151.5	5554.9
12.5°	3731.5	3699.2	3707.3	3751.7	3816.2	3896.9	4090.5	4372.9	4756.1	5127.3	5623.4
15°	3783.9	3796.0	3723.4	3779.9	3804.1	3832.3	4046.1	4364.8	4707.7	5212.0	5740.4
17.5°	4062.3	3993.7	3880.7	3828.3	3913.0	3913.0	4058.2	4308.3	4715.8	5256.3	5909.9
20°	4280.1	4280.1	4094.5	4038.1	4098.6	4086.5	4187.3	4372.9	4756.1	5345.1	6099.5
22.5°	4647.2	4699.6	4393.1	4276.1	4272.0	4304.3	4393.1	4550.4	4869.1	5470.2	6281.0
25°	5175.7	5187.8	4832.8	4711.8	4582.7	4635.1	4651.2	4808.6	4969.9	5615.4	6486.7
27.5°	5764.6	5756.6	5429.8	5127.3	5042.5	5054.6	4965.9	5070.8	5119.2	5659.7	6781.2
30°	6418.1	6345.5	6099.5	5671.9	5603.3	5526.6	5333.0	5329.0	5429.8	5909.9	7188.6
32.5°	6845.8	6753.0	6583.5	6277.0	6087.4	6095.4	5788.8	5784.8	5696.1	6184.2	7543.6
35°	7265.3	7124.1	7079.7	6765.1	6575.5	6595.6	6349.6	6317.3	6155.9	6599.7	8128.6
37.5°	7769.5	7644.5	7713.1	7475.1	7241.1	7144.3	7031.3	6991.0	6781.2	7184.6	8927.3
40°	8326.2	8285.9	8241.5	8124.5	7983.4	7991.4	7870.4	7830.1	7519.4	7890.6	9693.8
42.5°	9076.6	8923.3	8693.3	8770.0	8842.6	8919.2	8878.9	8774.0	8451.3	8608.6	10549.0
45°	9774.5	9572.8	9149.2	9173.4	9471.9	9532.4	10020.5	10008.4	9359.0	9520.3	11521.2
47.5°	10246.4	10153.7	9899.5	9871.3	10298.9	10294.9	11174.3	11174.3	10315.0	10428.0	12566.0
50°	10948.4	10706.3	10597.4	10738.6	10956.4	11105.7	12352.2	12428.9	11255.0	11376.0	13933.6
52.5°	11771.3	11468.8	11194.4	11557.5	11944.8	12041.6	13518.0	13485.8	11977.0	12477.3	15535.1
55°	12453.1	12299.8	12110.2	12319.9	12953.3	13074.3	14687.9	14389.4	12699.1	13389.0	16305.6
57.5°	13247.8	13340.6	13380.9	13328.4	14082.8	14272.4	16023.2	15168.0	13320.4	14002.1	16757.4
60°	14445.9	14502.4	14554.8	14679.9	15478.6	15744.8	17080.1	16144.2	13711.7	14357.1	16793.7
62.5°	16269.3	16051.4	16168.4	16600.1	17241.5	17544.0	18637.2	16830.0	14010.2	14570.9	15607.7
65°	18354.9	18060.4	17939.4	18496.0	20158.1	19916.0	20581.6	17342.3	13578.6	13772.2	13235.7
67.5°	20468.7	20501.0	20190.3	21307.8	23345.0	23345.0	22388.9	17588.4	12408.7	11162.2	9282.3
70°	22146.8	22247.7	22417.1	24583.4	27810.6	28298.7	24627.8	16579.9	10024.6	7430.7	5074.8
72.5°	22122.6	21820.1	22687.4	26677.1	31868.9	31461.4	25095.7	13110.6	6256.8	3638.7	2327.6
73°	21626.5	21372.3	22320.3	26656.9	32034.3	31651.0	24752.8	12086.0	5518.6	3154.6	2069.5
75°	17661.0	17201.1	18814.7	24143.7	29638.0	29932.5	21029.4	7882.5	3025.5	1944.4	1456.3
77.5°	8051.9	8253.6	10355.4	16196.6	22840.7	23187.6	13824.6	3408.8	1658.0	1363.5	1073.1
80°	2585.8	2714.9	4030.0	8051.9	14316.8	14942.1	6389.9	1549.1	1182.0	1044.8	802.8
82.5°	988.3	984.3	1690.3	3348.2	6785.2	7184.6	2335.7	944.0	879.4	770.5	568.8
85°	346.9	363.1	637.4	1323.2	2670.5	2795.6	810.8	524.4	609.1	516.4	326.8
87.5°	121.0	125.1	225.9	480.1	919.8	972.2	225.9	209.8	302.6	298.5	165.4
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: P478305  
 CATALOG NUMBER: IFLD-L-SA8C-827-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2	5470.2
2.5°	5526.6	5562.9	5575.0	5720.3	5720.3	5720.3	5776.7	5776.7	5760.6	5720.3	5817.1
5°	5550.8	5615.4	5740.4	5865.5	5897.8	5926.0	6002.6	5938.1	5962.3	5922.0	5958.3
7.5°	5619.4	5708.2	5942.1	6018.8	5966.3	6026.8	5946.2	5901.8	5857.4	5873.6	5817.1
10°	5736.4	5849.3	5958.3	6099.5	5998.6	5938.1	5772.7	5732.4	5591.2	5542.8	5587.1
12.5°	5881.6	6018.8	6204.3	6151.9	5958.3	5784.8	5607.3	5437.9	5353.2	5232.1	5264.4
15°	6026.8	6184.2	6212.4	6123.7	5881.6	5663.8	5341.1	5103.1	5018.3	4909.4	4965.9
17.5°	6184.2	6333.4	6285.0	6055.1	5728.3	5397.5	5030.4	4796.5	4619.0	4550.4	4550.4
20°	6418.1	6490.8	6414.1	5942.1	5542.8	5107.1	4752.1	4485.8	4308.3	4280.1	4235.7
22.5°	6599.7	6716.7	6373.8	5776.7	5272.5	4727.9	4320.5	4219.6	4167.2	4122.8	4066.3
25°	6833.7	6829.6	6301.2	5623.4	4808.6	4276.1	4030.0	4021.9	3997.7	3981.6	4058.2
27.5°	7055.5	6962.7	6216.4	5244.2	4328.5	3933.2	3800.1	3888.8	3925.1	3900.9	3933.2
30°	7406.5	7253.2	6095.4	4840.8	3904.9	3586.3	3610.5	3731.5	3792.0	3828.3	3779.9
32.5°	7777.6	7543.6	5845.3	4421.3	3529.8	3368.4	3424.9	3550.0	3622.6	3662.9	3707.3
35°	8314.1	7769.5	5591.2	3872.7	3259.5	3235.3	3267.6	3336.1	3441.0	3469.3	3481.4
37.5°	8975.7	8112.4	5248.3	3433.0	3049.7	3078.0	3110.2	3134.4	3138.5	3190.9	3170.8
40°	9637.3	8402.9	4748.1	3013.4	2831.9	2985.2	2969.0	2924.7	2888.4	2840.0	2827.9
42.5°	10218.2	8657.0	4191.4	2658.4	2638.3	2888.4	2835.9	2723.0	2638.3	2602.0	2541.4
45°	10871.7	9016.1	3630.6	2436.6	2489.0	2771.4	2755.2	2581.8	2472.9	2343.8	2327.6
47.5°	11718.9	9391.2	3094.1	2206.6	2347.8	2727.0	2735.1	2513.2	2355.9	2182.4	2158.2
50°	12804.0	9931.8	2686.7	2109.8	2263.1	2662.5	2674.6	2420.4	2214.7	2037.2	2021.1
52.5°	13844.8	10484.5	2347.8	1960.5	2206.6	2585.8	2614.1	2335.7	2097.7	1875.8	1887.9
55°	14369.2	10282.8	2057.4	1851.6	2077.5	2460.8	2565.6	2275.2	1920.2	1766.9	1762.9
57.5°	14486.2	9786.6	1827.4	1738.7	1968.6	2327.6	2485.0	2093.7	1839.5	1710.4	1694.3
60°	14103.0	8919.2	1645.9	1617.6	1831.5	2190.5	2299.4	1996.8	1758.8	1654.0	1629.7
62.5°	13159.0	8019.7	1520.8	1561.2	1714.5	2041.2	2182.4	1928.3	1682.2	1609.6	1557.1
65°	10791.0	6595.6	1420.0	1452.3	1593.4	1896.0	2109.8	1851.6	1613.6	1545.0	1541.0
67.5°	7475.1	4546.4	1339.3	1399.8	1496.6	1791.1	2037.2	1766.9	1524.9	1500.7	1468.4
70°	3828.3	2424.5	1234.4	1282.8	1391.7	1658.0	1908.1	1678.2	1432.1	1428.0	1387.7
72.5°	1940.4	1420.0	1113.4	1186.0	1262.7	1484.5	1746.7	1561.2	1315.1	1270.7	1206.2
73°	1678.2	1315.1	1093.2	1157.8	1230.4	1436.1	1698.3	1532.9	1299.0	1234.4	1173.9
75°	1222.3	1036.7	980.3	1044.8	1101.3	1294.9	1537.0	1403.8	1194.1	1125.5	1069.0
77.5°	915.7	798.7	814.9	887.5	935.9	1117.4	1367.5	1270.7	1081.1	988.3	964.1
80°	673.7	609.1	673.7	742.3	778.6	984.3	1246.5	1101.3	911.7	806.8	786.6
82.5°	480.1	443.7	520.4	564.8	580.9	814.9	1121.5	879.4	689.8	552.7	508.3
85°	274.3	270.3	351.0	346.9	359.0	476.0	738.2	584.9	443.7	338.9	330.8
87.5°	121.0	133.1	177.5	141.2	149.3	225.9	314.7	217.8	181.5	100.9	76.6
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)