

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: P478222

Luminaire Tested: **IFLD-L-SA7C-750-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478222  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-750-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

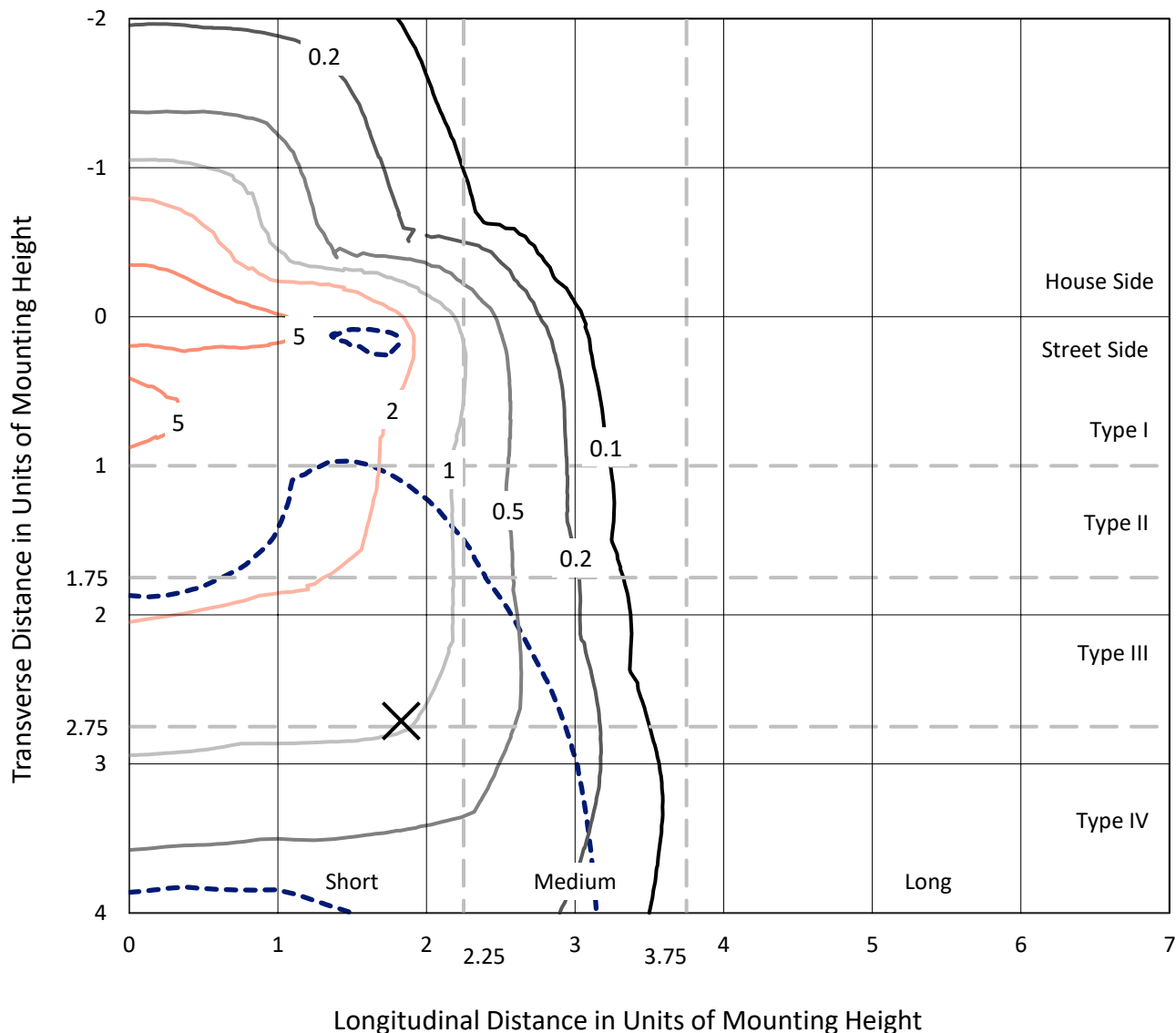
Lumens per Lamp: N/A  
Luminaire Lumens: 46456.6 lumens  
Efficiency: N/A  
Efficacy: 125.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 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

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### Iso-Footcandle Lines of Horizontal Illumination

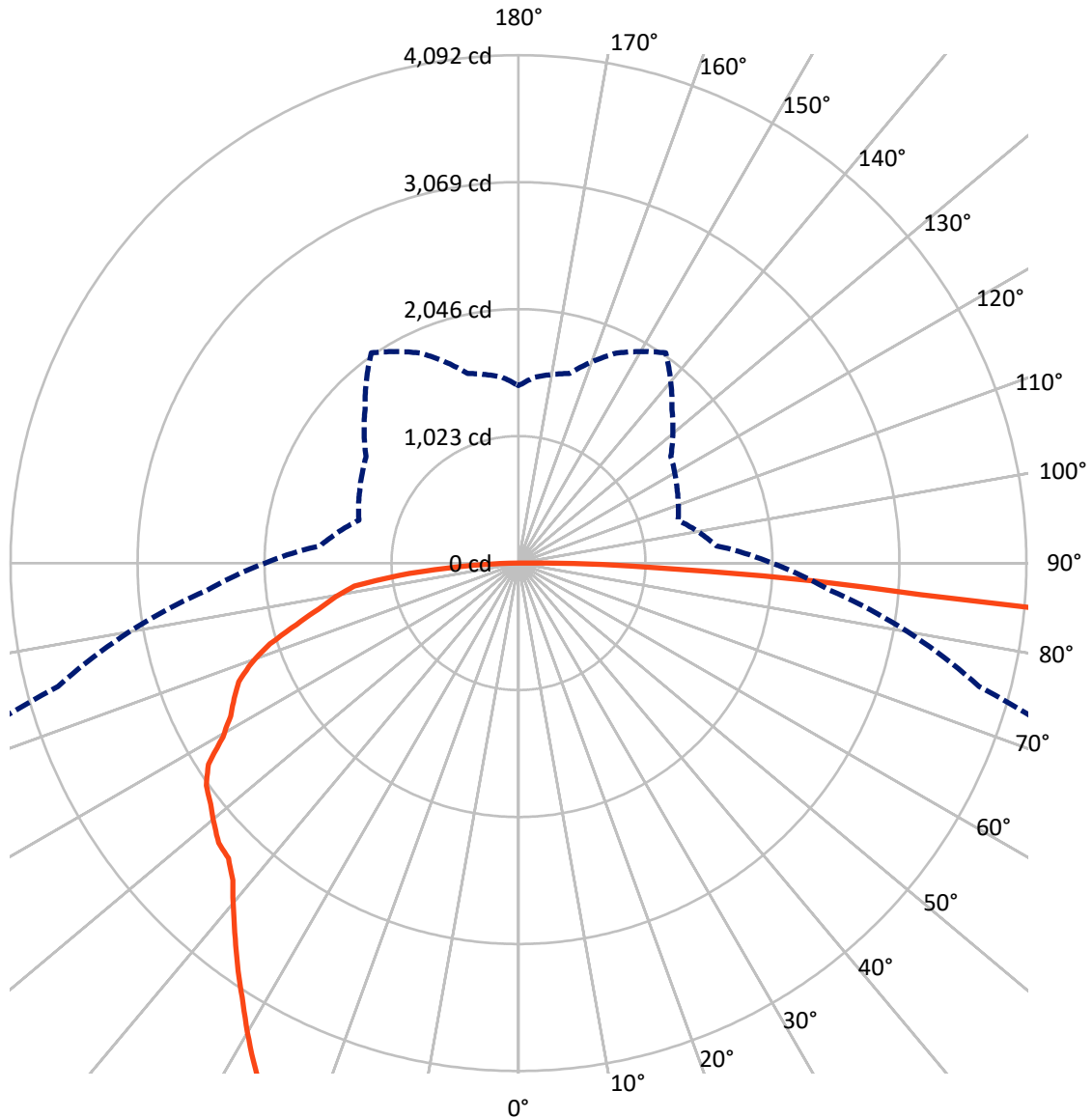
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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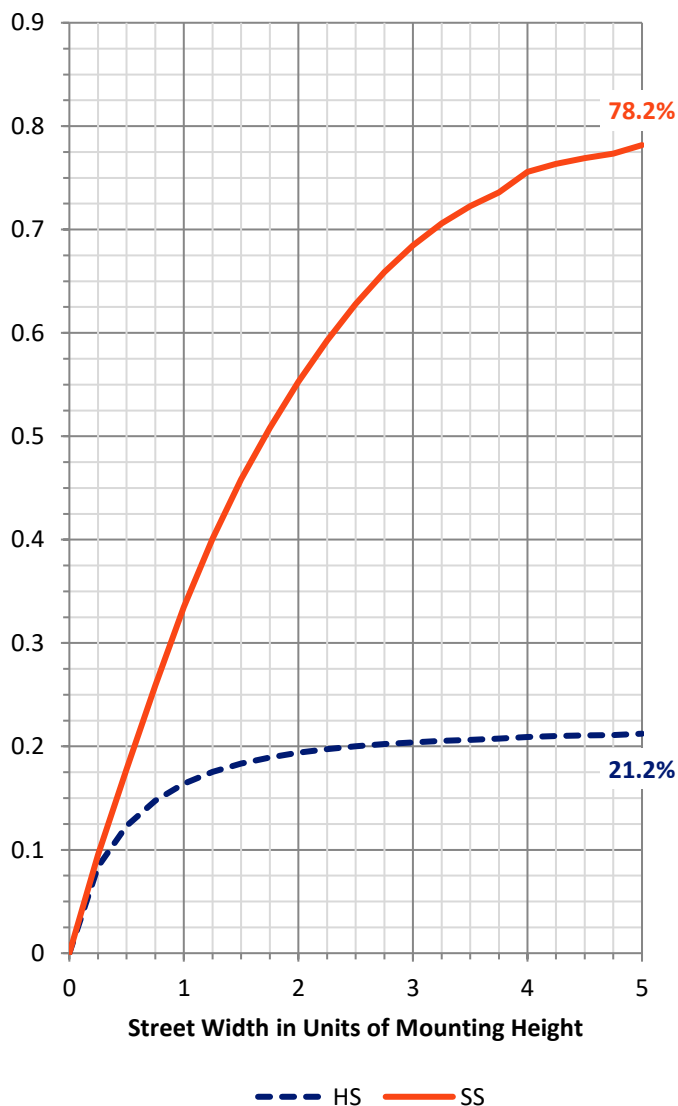
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10035.2	0.0	10035.2
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	36421.4	0.0	36421.4
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	46456.6	0.0	46456.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	614.7	1.3
10°-20°	1720.3	3.7
20°-30°	2831.4	6.1
30°-40°	4234.3	9.1
40°-50°	6277.2	13.5
50°-60°	9046.1	19.5
60°-70°	11544.1	24.8
70°-80°	8983.2	19.3
80°-90°	1205.2	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°	46456.6	100.0
0°-180°	46456.6	100.0

**Coefficient of Utilization**



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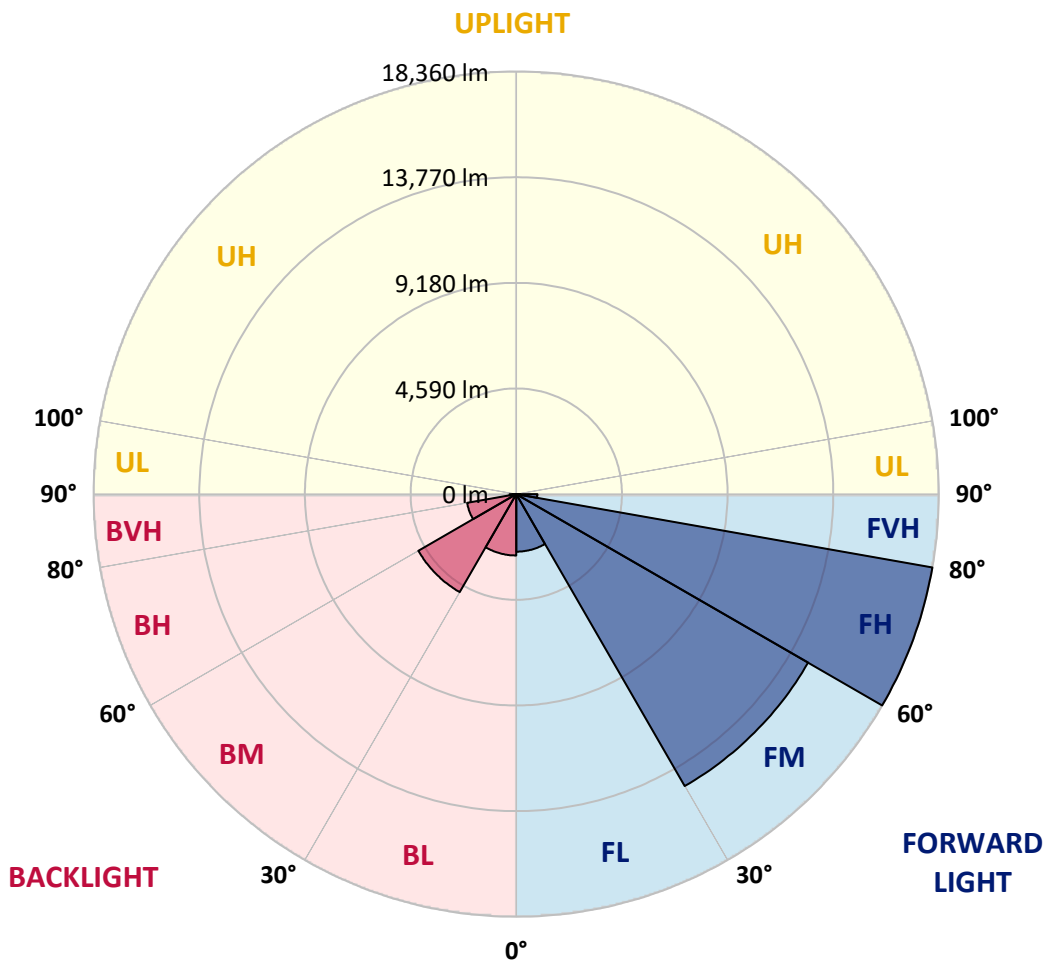
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2500.2	5.4			
FM (30°-60°)	14643.4	31.5			
FH (60°-80°)	18360.5	39.5			G5
FVH (80°-90°)	917.3	2.0			G5
BL (0°-30°)	2666.3	5.7	B4/5000		
BM (30°-60°)	4914.3	10.6	B3/5000		
BH (60°-80°)	2166.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	287.8	0.6			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°	34°	35°	45°	55°	65°	75°	85°
0°	6660.3	6660.3	6660.3	6660.3	6660.3	6660.3	6660.3	6660.3	6660.3	6660.3	6660.3
2.5°	5967.7	5987.4	6051.2	6066.0	6134.7	6095.4	6178.9	6326.3	6409.8	6532.6	6679.9
5°	5496.2	5412.7	5452.0	5604.3	5682.9	5702.5	5790.9	6041.4	6198.6	6380.3	6655.4
7.5°	4941.2	4926.5	5005.0	5103.3	5260.4	5275.2	5471.7	5692.7	6016.9	6419.6	6743.8
10°	4563.0	4626.8	4671.0	4774.2	4882.2	4882.2	5132.7	5515.9	5884.2	6272.3	6763.4
12.5°	4543.3	4504.0	4513.9	4567.9	4646.5	4744.7	4980.5	5324.3	5790.9	6242.8	6846.9
15°	4607.2	4621.9	4533.5	4602.3	4631.7	4666.1	4926.5	5314.5	5732.0	6345.9	6989.4
17.5°	4946.1	4862.6	4725.1	4661.2	4764.4	4764.4	4941.2	5245.7	5741.8	6400.0	7195.7
20°	5211.3	5211.3	4985.4	4916.6	4990.3	4975.6	5098.4	5324.3	5790.9	6508.0	7426.5
22.5°	5658.3	5722.1	5348.9	5206.4	5201.5	5240.8	5348.9	5540.4	5928.4	6660.3	7647.5
25°	6301.7	6316.5	5884.2	5736.9	5579.7	5643.6	5663.2	5854.8	6051.2	6837.1	7898.0
27.5°	7018.8	7009.0	6611.2	6242.8	6139.6	6154.4	6046.3	6174.0	6233.0	6891.1	8256.6
30°	7814.5	7726.1	7426.5	6905.9	6822.4	6729.0	6493.3	6488.4	6611.2	7195.7	8752.7
32.5°	8335.2	8222.2	8015.9	7642.6	7411.8	7421.6	7048.3	7043.4	6935.3	7529.7	9184.9
35°	8846.0	8674.1	8620.1	8236.9	8006.1	8030.7	7731.0	7691.7	7495.3	8035.6	9897.1
37.5°	9460.0	9307.7	9391.2	9101.4	8816.5	8698.6	8561.1	8512.0	8256.6	8747.8	10869.6
40°	10137.8	10088.7	10034.6	9892.2	9720.3	9730.1	9582.8	9533.6	9155.4	9607.3	11802.9
42.5°	11051.4	10864.7	10584.7	10678.1	10766.5	10859.8	10810.7	10683.0	10290.0	10481.6	12844.1
45°	11901.1	11655.5	11139.8	11169.2	11532.7	11606.4	12200.7	12186.0	11395.2	11591.6	14027.9
47.5°	12475.8	12362.8	12053.3	12019.0	12539.6	12534.7	13605.5	13605.5	12559.3	12696.8	15300.0
50°	13330.4	13035.7	12903.1	13075.0	13340.2	13522.0	15039.7	15133.0	13703.7	13851.0	16965.1
52.5°	14332.4	13964.0	13630.0	14072.1	14543.6	14661.5	16459.2	16419.9	14582.9	15191.9	18915.0
55°	15162.5	14975.8	14745.0	15000.4	15771.5	15918.9	17883.6	17520.1	15462.1	16302.0	19853.2
57.5°	16130.1	16243.0	16292.2	16228.3	17146.8	17377.6	19509.3	18468.0	16218.5	17048.6	20403.3
60°	17588.9	17657.6	17721.5	17873.7	18846.3	19170.4	20796.2	19656.7	16694.9	17480.8	20447.5
62.5°	19808.9	19543.7	19686.2	20211.7	20992.7	21361.0	22692.1	20491.7	17058.4	17741.1	19003.4
65°	22348.3	21989.7	21842.4	22520.2	24543.8	24249.1	25059.6	21115.5	16532.8	16768.6	16115.3
67.5°	24922.0	24961.3	24583.1	25943.7	28424.1	28424.1	27260.0	21415.1	15108.4	13590.7	11301.9
70°	26965.3	27088.1	27294.4	29932.0	33861.4	34455.7	29986.0	20187.1	12205.6	9047.4	6178.9
72.5°	26935.8	26567.5	27623.5	32481.2	38802.6	38306.5	30555.8	15963.1	7618.1	4430.4	2834.1
73°	26331.7	26022.3	27176.5	32456.6	39003.9	38537.3	30138.3	14715.5	6719.2	3841.0	2519.7
75°	21503.5	20943.6	22908.2	29396.6	36086.4	36444.9	25604.8	9597.5	3683.8	2367.4	1773.1
77.5°	9803.8	10049.4	12608.4	19720.5	27810.1	28232.5	16832.4	4150.4	2018.7	1660.2	1306.5
80°	3148.4	3305.6	4906.8	9803.8	17431.7	18193.0	7780.2	1886.1	1439.1	1272.1	977.4
82.5°	1203.4	1198.5	2058.0	4076.7	8261.5	8747.8	2843.9	1149.3	1070.8	938.1	692.6
85°	422.4	442.1	776.1	1611.0	3251.6	3403.8	987.3	638.5	741.7	628.7	397.8
87.5°	147.4	152.3	275.1	584.5	1119.9	1183.7	275.1	255.4	368.4	363.5	201.4
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°	6660.3	6660.3	6660.3	6660.3	6660.3	6660.3	6660.3	6660.3	6660.3	6660.3	6660.3
2.5°	6729.0	6773.3	6788.0	6964.8	6964.8	6964.8	7033.6	7033.6	7013.9	6964.8	7082.7
5°	6758.5	6837.1	6989.4	7141.6	7180.9	7215.3	7308.6	7230.0	7259.5	7210.4	7254.6
7.5°	6842.0	6950.1	7235.0	7328.3	7264.4	7338.1	7239.9	7185.8	7131.8	7151.5	7082.7
10°	6984.5	7122.0	7254.6	7426.5	7303.7	7230.0	7028.7	6979.5	6807.6	6748.7	6802.7
12.5°	7161.3	7328.3	7554.2	7490.4	7254.6	7043.4	6827.3	6621.0	6517.8	6370.5	6409.8
15°	7338.1	7529.7	7564.0	7456.0	7161.3	6896.0	6503.1	6213.3	6110.2	5977.6	6046.3
17.5°	7529.7	7711.4	7652.5	7372.5	6974.6	6571.9	6124.9	5840.0	5623.9	5540.4	5540.4
20°	7814.5	7902.9	7809.6	7235.0	6748.7	6218.2	5786.0	5461.8	5245.7	5211.3	5157.3
22.5°	8035.6	8178.0	7760.5	7033.6	6419.6	5756.5	5260.4	5137.7	5073.8	5019.8	4951.0
25°	8320.4	8315.5	7672.1	6846.9	5854.8	5206.4	4906.8	4897.0	4867.5	4847.9	4941.2
27.5°	8590.6	8477.6	7569.0	6385.2	5270.3	4788.9	4626.8	4734.9	4779.1	4749.6	4788.9
30°	9017.9	8831.3	7421.6	5894.1	4754.5	4366.5	4396.0	4543.3	4617.0	4661.2	4602.3
32.5°	9469.8	9184.9	7117.1	5383.2	4297.8	4101.3	4170.0	4322.3	4410.7	4459.8	4513.9
35°	10123.0	9460.0	6807.6	4715.2	3968.7	3939.2	3978.5	4062.0	4189.7	4224.1	4238.8
37.5°	10928.6	9877.5	6390.1	4179.9	3713.3	3747.6	3786.9	3816.4	3821.3	3885.2	3860.6
40°	11734.1	10231.1	5781.1	3669.1	3448.0	3634.7	3615.0	3561.0	3516.8	3457.8	3443.1
42.5°	12441.4	10540.5	5103.3	3236.8	3212.3	3516.8	3452.9	3315.4	3212.3	3168.1	3094.4
45°	13237.1	10977.7	4420.5	2966.7	3030.5	3374.3	3354.7	3143.5	3010.9	2853.7	2834.1
47.5°	14268.5	11434.5	3767.3	2686.7	2858.6	3320.3	3330.1	3060.0	2868.4	2657.2	2627.8
50°	15589.8	12092.6	3271.2	2568.8	2755.5	3241.7	3256.5	2947.0	2696.5	2480.4	2460.8
52.5°	16857.0	12765.5	2858.6	2387.1	2686.7	3148.4	3182.8	2843.9	2554.1	2283.9	2298.7
55°	17495.5	12520.0	2505.0	2254.5	2529.5	2996.1	3123.9	2770.2	2338.0	2151.3	2146.4
57.5°	17638.0	11915.8	2225.0	2116.9	2396.9	2834.1	3025.6	2549.2	2239.7	2082.6	2062.9
60°	17171.4	10859.8	2004.0	1969.6	2229.9	2667.1	2799.7	2431.3	2141.5	2013.8	1984.3
62.5°	16022.0	9764.5	1851.7	1900.8	2087.5	2485.3	2657.2	2347.8	2048.2	1959.8	1895.9
65°	13138.8	8030.7	1728.9	1768.2	1940.1	2308.5	2568.8	2254.5	1964.7	1881.2	1876.3
67.5°	9101.4	5535.5	1630.7	1704.4	1822.2	2180.8	2480.4	2151.3	1856.6	1827.2	1787.9
70°	4661.2	2951.9	1503.0	1561.9	1694.5	2018.7	2323.2	2043.3	1743.7	1738.7	1689.6
72.5°	2362.5	1728.9	1355.6	1444.0	1537.4	1807.5	2126.8	1900.8	1601.2	1547.2	1468.6
73°	2043.3	1601.2	1331.1	1409.7	1498.1	1748.6	2067.8	1866.5	1581.6	1503.0	1429.3
75°	1488.2	1262.3	1193.5	1272.1	1340.9	1576.7	1871.4	1709.3	1453.9	1370.4	1301.6
77.5°	1115.0	972.5	992.2	1080.6	1139.5	1360.5	1665.1	1547.2	1316.3	1203.4	1173.9
80°	820.3	741.7	820.3	903.8	948.0	1198.5	1517.7	1340.9	1110.0	982.3	957.8
82.5°	584.5	540.3	633.6	687.6	707.3	992.2	1365.5	1070.8	839.9	672.9	618.9
85°	334.0	329.1	427.3	422.4	437.1	579.6	898.8	712.2	540.3	412.6	402.8
87.5°	147.4	162.1	216.1	171.9	181.7	275.1	383.1	265.2	221.0	122.8	93.3
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)