

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: P476626

Luminaire Tested: **IFLD-L-SA8A-740-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476626  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-740-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

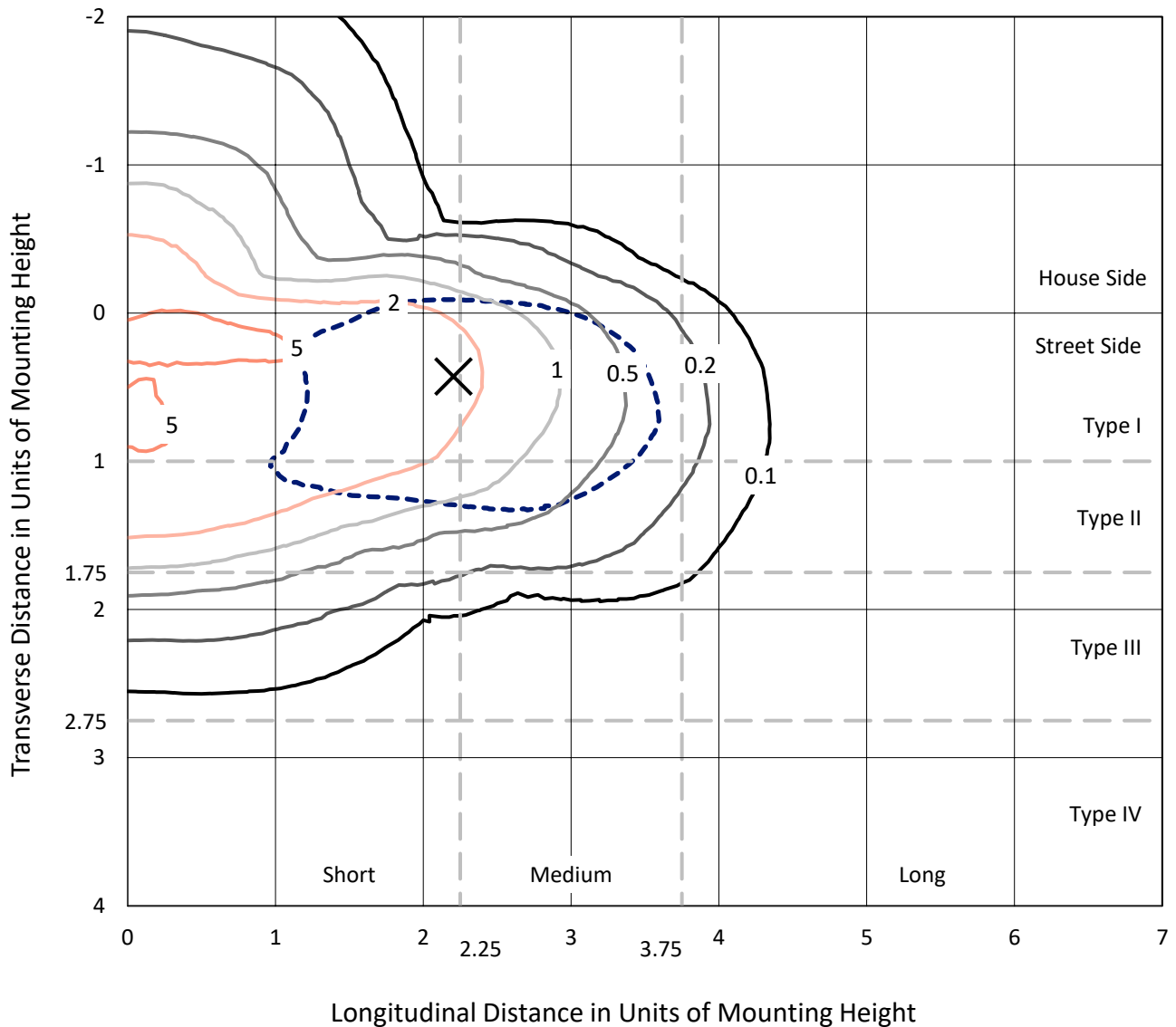
Lumens per Lamp: N/A  
Luminaire Lumens: 34214.9 lumens  
Efficiency: N/A  
Efficacy: 138.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8  
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

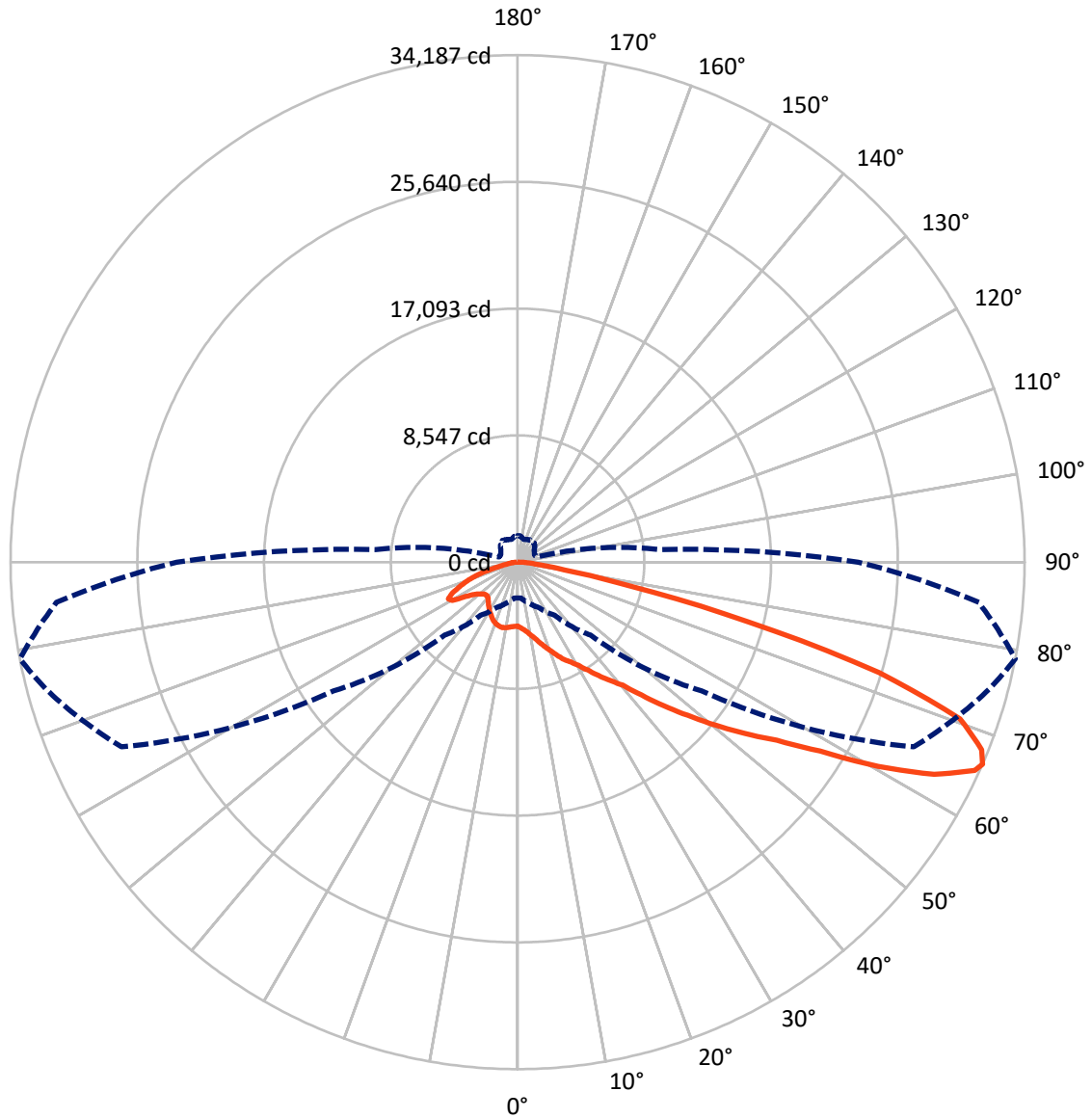
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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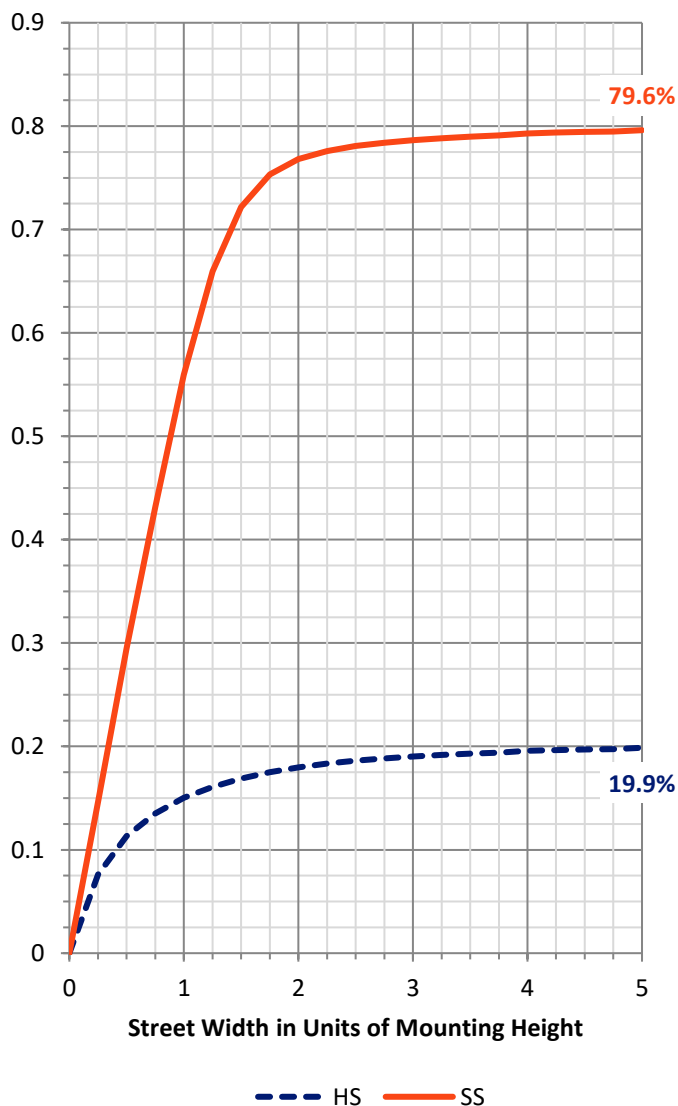
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6909.2	0.0	6909.2
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	27305.7	0.0	27305.7
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	34214.9	0.0	34214.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	424.8	1.2
10°-20°	1311.8	3.8
20°-30°	2251.8	6.6
30°-40°	3478.6	10.2
40°-50°	5571.8	16.3
50°-60°	8319.1	24.3
60°-70°	8547.9	25.0
70°-80°	3789.2	11.1
80°-90°	519.9	1.5
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°	34214.9	100.0
0°-180°	34214.9	100.0

**Coefficient of Utilization**



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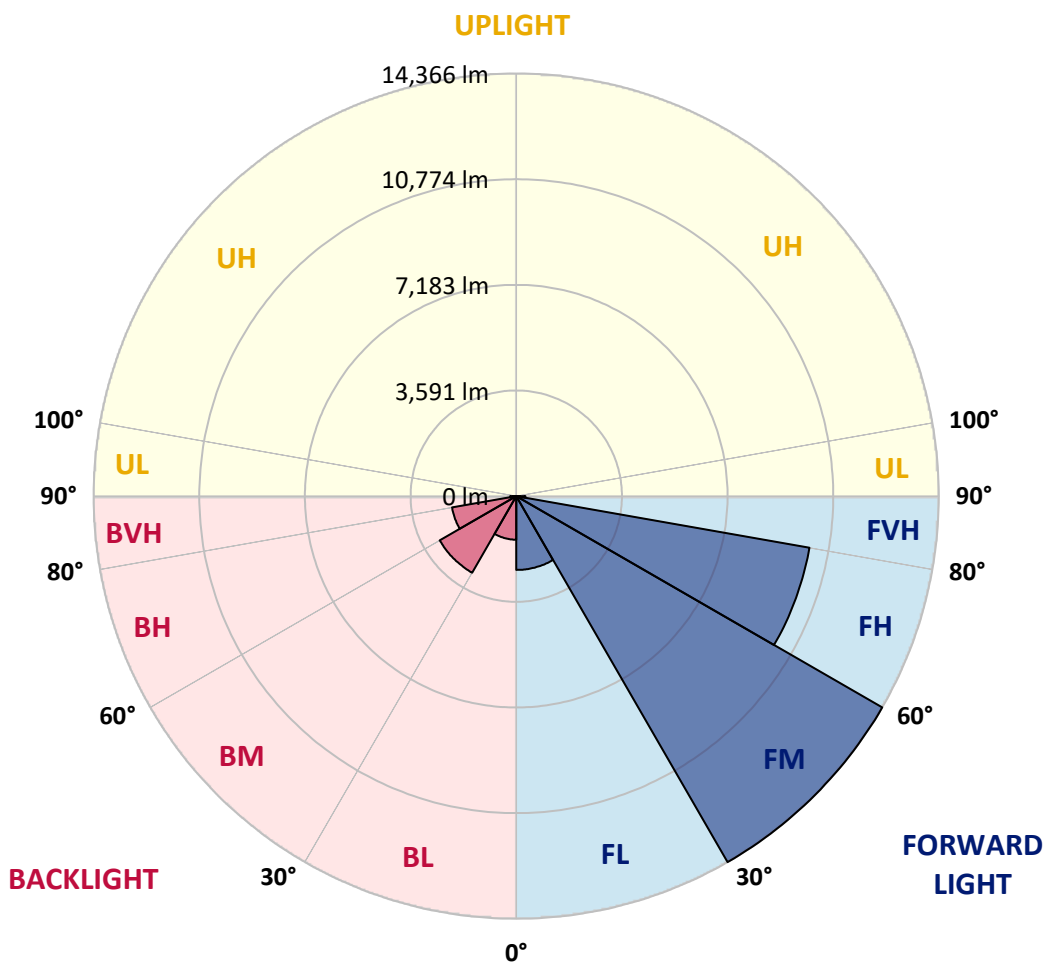
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2508.2	7.3			
FM (30°-60°)	14365.7	42.0			
FH (60°-80°)	10120.0	29.6			G4/12000
FVH (80°-90°)	311.8	0.9			G3/500
BL (0°-30°)	1480.3	4.3	B3/2500		
BM (30°-60°)	3003.8	8.8	B3/5000		
BH (60°-80°)	2217.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	208.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4
2.5°	4595.1	4598.9	4598.9	4583.8	4587.6	4598.9	4557.5	4467.2	4467.2	4452.1	4425.8
5°	4877.4	4858.6	4832.2	4836.0	4820.9	4820.9	4775.8	4689.2	4613.9	4583.8	4504.8
7.5°	4915.0	4933.8	4930.1	4975.2	4997.8	4997.8	5020.4	4948.9	4836.0	4764.5	4685.4
10°	4990.3	4941.4	4937.6	5043.0	5076.8	5155.9	5246.2	5208.6	5114.5	5012.9	4907.5
12.5°	5035.4	5065.5	5065.5	5118.2	5197.3	5313.9	5472.0	5543.5	5396.7	5291.4	5129.5
15°	5103.2	5061.8	5182.2	5227.4	5377.9	5460.7	5686.5	5870.9	5773.1	5645.1	5389.2
17.5°	5133.3	5106.9	5174.7	5257.5	5513.4	5637.6	5912.3	6168.2	6085.4	6002.6	5739.2
20°	5287.6	5283.8	5313.9	5381.7	5566.1	5810.7	6153.2	6506.9	6537.0	6386.5	6029.0
22.5°	5663.9	5615.0	5615.0	5588.7	5667.7	5919.8	6382.7	6872.0	7007.5	6830.6	6356.4
25°	6010.2	6077.9	6036.5	5916.1	5886.0	6017.7	6548.3	7259.6	7440.3	7274.7	6800.5
27.5°	6454.2	6476.8	6548.3	6386.5	6179.5	6220.9	6729.0	7477.9	7850.5	7628.4	7052.6
30°	7094.0	7052.6	7037.6	6856.9	6586.0	6529.5	6936.0	7797.8	8388.6	8076.3	7349.9
32.5°	7526.8	7628.4	7624.7	7376.3	7048.9	6924.7	7191.9	8098.9	8964.4	8674.7	7899.4
35°	8384.9	8490.2	8407.5	8042.4	7658.5	7410.2	7560.7	8490.2	9623.0	9397.2	8366.1
37.5°	9480.0	9728.4	9551.5	8877.9	8335.9	8065.0	8072.5	8915.5	10296.7	10112.3	8866.6
40°	10236.5	10571.4	10326.8	9694.5	9118.7	8862.8	8761.2	9419.8	11102.1	10906.4	9649.4
42.5°	11173.6	11452.1	11324.1	10699.4	10025.7	9807.4	9604.2	10262.8	12332.7	12242.4	10654.2
45°	12197.2	12328.9	12287.5	11892.4	11143.5	11068.2	10620.3	11373.0	13781.6	13819.2	11911.2
47.5°	13149.3	13220.9	13299.9	13013.9	12547.2	12611.2	11790.8	12562.3	15189.1	15437.5	13311.2
50°	13394.0	13638.6	13823.0	14014.9	14116.5	14549.3	13081.6	14022.5	16807.4	17289.1	14869.2
52.5°	13145.6	13126.8	13687.5	14289.7	15305.8	16212.8	14839.1	15836.4	18237.5	19189.6	16295.6
55°	12016.6	11978.9	12882.1	13680.0	15663.3	17138.6	17349.3	18252.5	19964.9	21203.0	18226.2
57.5°	10040.8	9807.4	10793.5	12103.1	14888.0	17240.2	19870.8	21839.1	22621.8	24033.1	21172.9
60°	6747.8	6649.9	7594.6	9156.4	12088.1	15798.8	21379.9	26328.8	26366.4	27954.6	25745.5
62.5°	4154.8	4173.6	4779.5	5949.9	8463.9	12524.6	20728.9	29915.3	29922.9	31514.8	29508.9
65°	2717.2	2728.5	3217.7	3865.0	5287.6	8494.0	17142.3	30197.6	32395.4	33874.4	31232.5
66°	2419.9	2423.6	2845.1	3372.0	4380.6	6951.0	15140.2	29463.7	32952.4	34186.8	31209.9
67.5°	2039.8	2088.7	2427.4	2833.8	3417.2	4994.0	12012.8	27341.2	32666.4	33750.2	30502.4
70°	1595.7	1622.0	1889.2	2303.2	2562.9	2890.3	7139.2	22286.9	29900.3	31657.8	27928.2
72.5°	1279.6	1302.1	1505.4	1870.4	2081.2	1904.3	3887.6	16171.4	23619.1	25493.3	21967.0
75°	1080.1	1083.9	1181.7	1471.5	1712.4	1430.1	2069.9	10379.5	15155.2	16028.4	13457.9
77.5°	873.1	888.2	955.9	1121.5	1377.4	1125.3	1234.4	5814.5	7609.6	7673.6	6220.9
80°	711.3	718.8	760.2	816.7	1050.0	831.7	835.5	2837.6	3262.9	3187.6	2529.0
82.5°	560.7	568.3	617.2	605.9	771.5	594.6	519.4	1366.1	1501.6	1471.5	1162.9
85°	316.1	316.1	485.5	485.5	489.2	376.3	316.1	643.5	794.1	741.4	545.7
87.5°	101.6	105.4	146.8	154.3	244.6	169.4	154.3	240.9	376.3	331.2	195.7
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°	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4
2.5°	4410.7	4350.5	4324.2	4237.6	4215.0	4158.6	4132.2	4098.4	4087.1	4038.1	4083.3
5°	4444.6	4425.8	4320.4	4211.3	4128.5	4090.8	4034.4	3959.1	3951.6	3883.8	3876.3
7.5°	4587.6	4523.6	4339.2	4222.5	4057.0	3962.9	3838.7	3801.0	3752.1	3729.5	3778.5
10°	4809.6	4647.8	4373.1	4079.5	3876.3	3763.4	3673.1	3646.7	3650.5	3635.5	3612.9
12.5°	4967.7	4813.4	4316.6	3959.1	3695.7	3586.5	3579.0	3605.3	3646.7	3627.9	3654.3
15°	5193.5	4903.7	4275.2	3759.6	3548.9	3518.8	3515.0	3594.1	3590.3	3590.3	3586.5
17.5°	5404.3	4994.0	4124.7	3586.5	3394.6	3417.2	3443.5	3439.8	3477.4	3492.4	3518.8
20°	5671.5	5099.4	3913.9	3413.4	3277.9	3270.4	3266.6	3270.4	3308.0	3330.6	3311.8
22.5°	5904.8	5122.0	3737.1	3247.8	3138.7	3108.6	3059.7	3108.6	3089.8	3097.3	3119.9
25°	6108.0	5125.8	3484.9	3123.6	2999.4	2931.7	2894.1	2890.3	2856.4	2852.7	2852.7
27.5°	6277.4	4997.8	3262.9	2950.5	2833.8	2769.9	2766.1	2724.7	2638.1	2581.7	2589.2
30°	6409.1	4900.0	3108.6	2800.0	2687.1	2675.8	2641.9	2547.8	2434.9	2363.4	2363.4
32.5°	6642.4	4704.3	2897.8	2645.7	2589.2	2574.2	2495.1	2412.3	2307.0	2239.2	2227.9
35°	6815.5	4523.6	2758.6	2514.0	2487.6	2457.5	2389.8	2299.4	2269.3	2254.3	2265.6
37.5°	7011.2	4320.4	2589.2	2401.1	2427.4	2370.9	2291.9	2250.5	2355.9	2329.5	2340.8
40°	7323.6	4177.4	2423.6	2333.3	2359.7	2295.7	2194.1	2179.0	2310.7	2216.6	2194.1
42.5°	7895.6	4173.6	2322.0	2231.7	2250.5	2201.6	2111.3	2103.7	2156.4	2043.5	2009.7
45°	8606.9	4305.3	2246.8	2156.4	2141.4	2133.9	2103.7	2069.9	2024.7	1877.9	1840.3
47.5°	9457.4	4519.9	2231.7	2043.5	2062.3	2126.3	2088.7	2002.1	1885.5	1791.4	1772.6
50°	10488.6	4963.9	2194.1	1960.7	1994.6	2096.2	2066.1	1945.7	1840.3	1780.1	1768.8
52.5°	11628.9	5524.7	2145.1	1832.8	1908.0	2069.9	2084.9	1972.0	1817.7	1765.0	1757.5
55°	12972.5	6352.6	2088.7	1693.5	1806.4	2043.5	2084.9	1896.8	1787.6	1787.6	1780.1
57.5°	15625.7	7842.9	1972.0	1565.6	1716.1	1994.6	2024.7	1900.5	1791.4	1791.4	1776.3
60°	19517.0	10168.7	1750.0	1467.7	1629.6	1926.9	1979.6	1844.1	1750.0	1772.6	1768.8
62.5°	22561.6	10876.2	1561.8	1373.6	1543.0	1802.7	1919.3	1783.9	1701.1	1783.9	1791.4
65°	23212.7	10161.2	1369.9	1272.0	1422.6	1682.2	1832.8	1697.3	1629.6	1791.4	1798.9
66°	22979.4	9604.2	1302.1	1241.9	1369.9	1622.0	1780.1	1667.2	1591.9	1783.9	1787.6
67.5°	21940.7	8768.7	1226.9	1177.9	1298.4	1535.5	1719.9	1625.8	1531.7	1761.3	1727.4
70°	19682.6	7436.5	1098.9	1065.0	1196.8	1392.5	1580.6	1520.4	1437.6	1622.0	1561.8
72.5°	15159.0	5942.4	963.4	967.2	1080.1	1245.7	1441.4	1400.0	1328.5	1422.6	1384.9
75°	9231.6	3797.3	839.2	846.8	940.9	1106.4	1309.7	1279.6	1193.0	1245.7	1226.9
77.5°	4090.8	1881.7	707.5	722.6	797.8	974.7	1140.3	1091.4	1001.1	1012.4	1004.8
80°	1588.2	891.9	575.8	594.6	643.5	779.0	944.6	899.5	820.4	805.4	797.8
82.5°	764.0	496.8	444.1	451.6	470.4	621.0	812.9	756.4	651.1	583.3	583.3
85°	383.9	308.6	312.4	286.0	312.4	421.5	549.5	459.1	380.1	338.7	346.2
87.5°	154.3	154.3	154.3	131.7	139.2	199.5	255.9	173.1	158.1	94.1	94.1
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)