

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: P478138

Luminaire Tested: **IFLD-M-SA4B-735-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478138  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-735-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

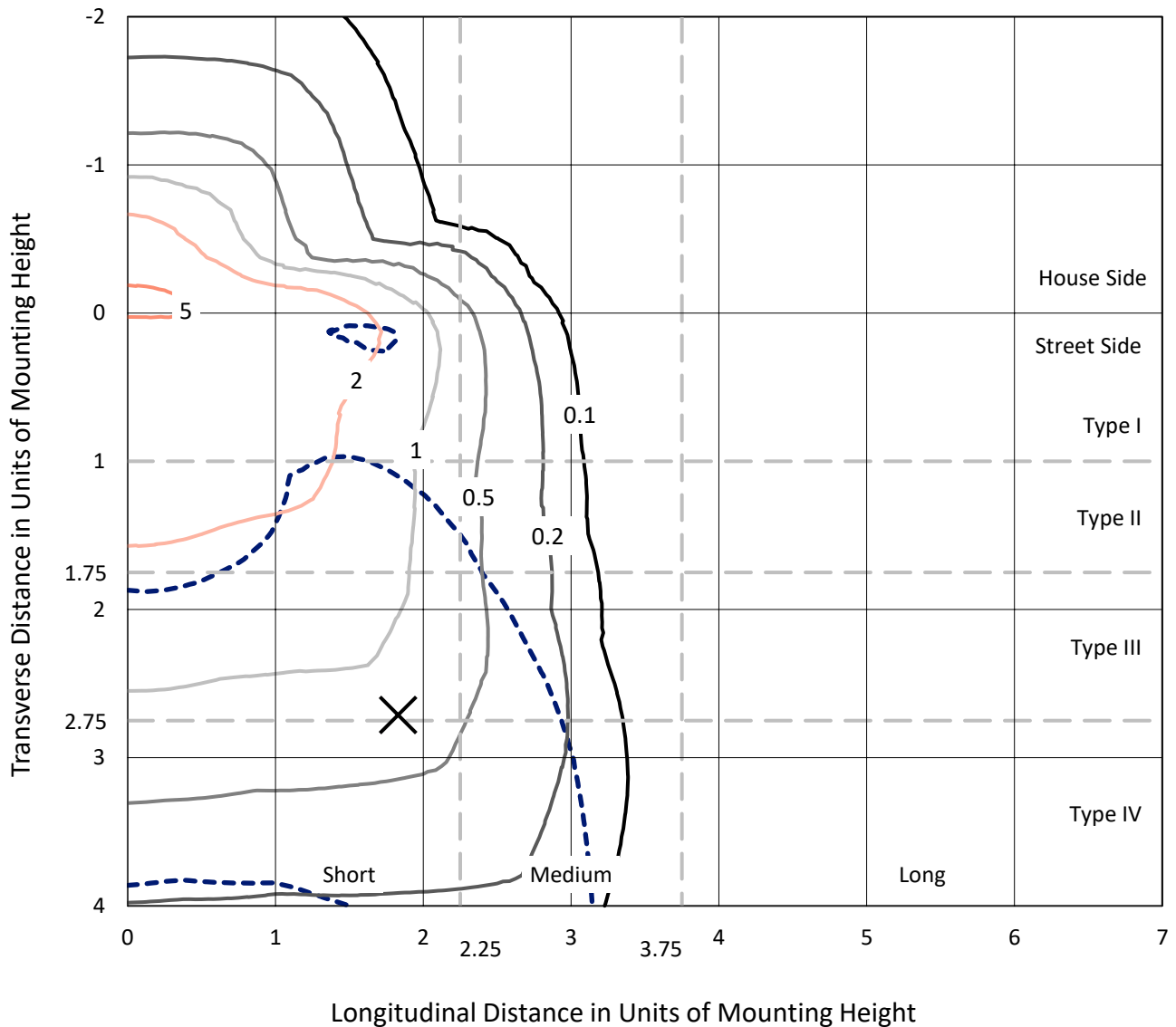
Lumens per Lamp: N/A  
Luminaire Lumens: 23078.2 lumens  
Efficiency: N/A  
Efficacy: 138.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 166.1  
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

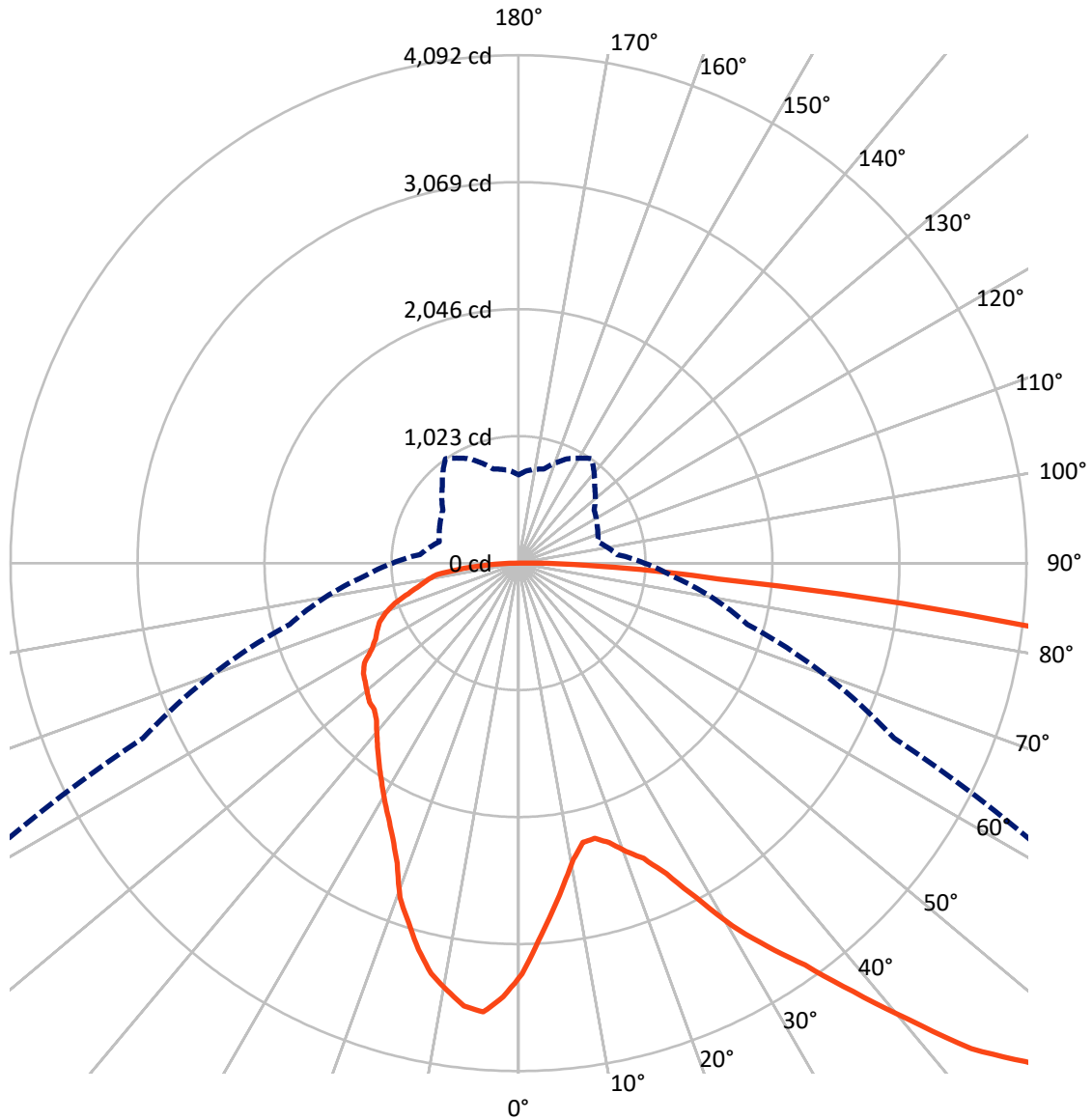
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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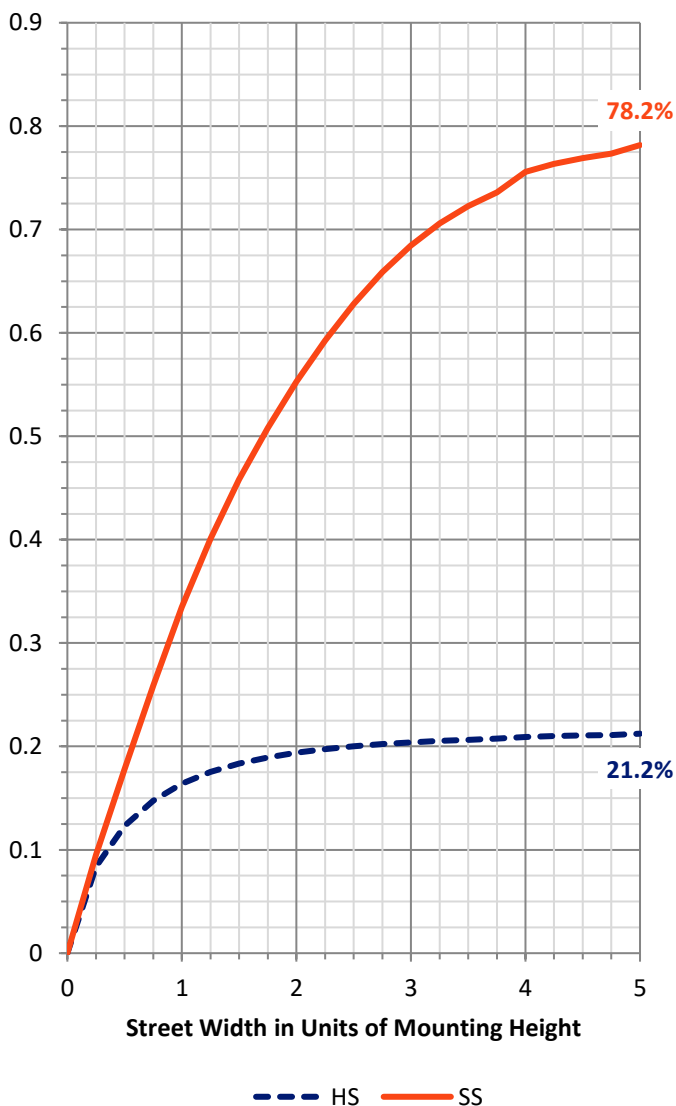
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4985.2	0.0	4985.2
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	18093.1	0.0	18093.1
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	23078.2	0.0	23078.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.4	1.3
10°-20°	854.6	3.7
20°-30°	1406.6	6.1
30°-40°	2103.5	9.1
40°-50°	3118.3	13.5
50°-60°	4493.8	19.5
60°-70°	5734.8	24.8
70°-80°	4462.6	19.3
80°-90°	598.7	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°	23078.2	100.0
0°-180°	23078.2	100.0

**Coefficient of Utilization**



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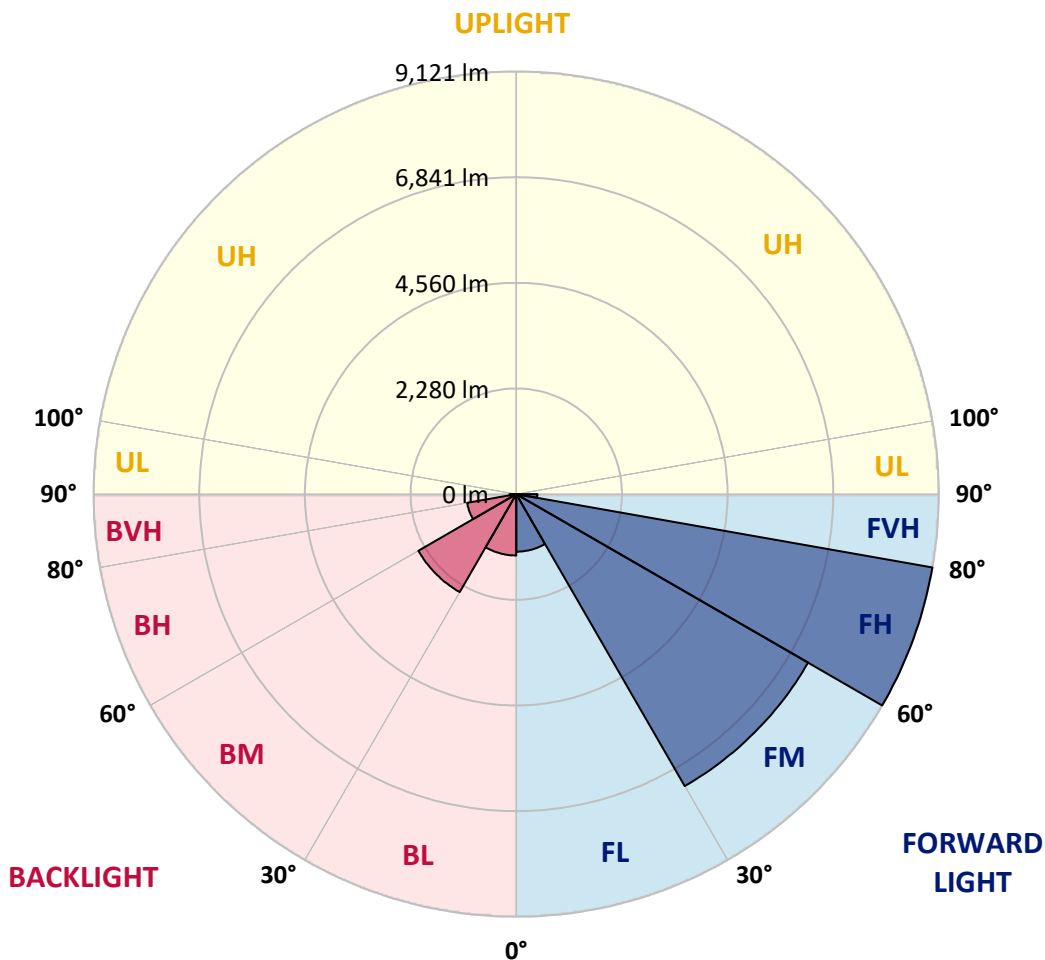
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1242.0	5.4			
FM (30°-60°)	7274.4	31.5			
FH (60°-80°)	9120.9	39.5			G4/12000
FVH (80°-90°)	455.7	2.0			G3/500
BL (0°-30°)	1324.5	5.7	B3/2500		
BM (30°-60°)	2441.3	10.6	B2/2500		
BH (60°-80°)	1076.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	143.0	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3308.6	3308.6	3308.6	3308.6	3308.6	3308.6	3308.6	3308.6	3308.6	3308.6	3308.6
2.5°	2964.6	2974.4	3006.1	3013.4	3047.6	3028.0	3069.5	3142.7	3184.2	3245.2	3318.4
5°	2730.4	2688.9	2708.4	2784.0	2823.1	2832.8	2876.8	3001.2	3079.3	3169.6	3306.2
7.5°	2454.6	2447.3	2486.4	2535.2	2613.2	2620.6	2718.2	2828.0	2989.0	3189.1	3350.1
10°	2266.8	2298.5	2320.4	2371.7	2425.4	2425.4	2549.8	2740.1	2923.1	3115.9	3359.9
12.5°	2257.0	2237.5	2242.4	2269.2	2308.2	2357.0	2474.2	2645.0	2876.8	3101.2	3401.3
15°	2288.7	2296.0	2252.1	2286.3	2300.9	2318.0	2447.3	2640.1	2847.5	3152.5	3472.1
17.5°	2457.1	2415.6	2347.3	2315.6	2366.8	2366.8	2454.6	2605.9	2852.4	3179.3	3574.6
20°	2588.8	2588.8	2476.6	2442.4	2479.0	2471.7	2532.7	2645.0	2876.8	3233.0	3689.3
22.5°	2810.9	2842.6	2657.2	2586.4	2584.0	2603.5	2657.2	2752.3	2945.1	3308.6	3799.1
25°	3130.5	3137.8	2923.1	2849.9	2771.8	2803.6	2813.3	2908.5	3006.1	3396.5	3923.5
27.5°	3486.7	3481.9	3284.2	3101.2	3050.0	3057.3	3003.6	3067.1	3096.4	3423.3	4101.6
30°	3882.0	3838.1	3689.3	3430.6	3389.1	3342.8	3225.7	3223.2	3284.2	3574.6	4348.1
32.5°	4140.7	4084.5	3982.1	3796.6	3681.9	3686.8	3501.4	3498.9	3445.3	3740.5	4562.8
35°	4394.4	4309.0	4282.2	4091.9	3977.2	3989.4	3840.5	3821.0	3723.4	3991.8	4916.6
37.5°	4699.4	4623.8	4665.3	4521.3	4379.8	4321.2	4252.9	4228.5	4101.6	4345.6	5399.7
40°	5036.1	5011.7	4984.9	4914.1	4828.7	4833.6	4760.4	4736.0	4548.1	4772.6	5863.3
42.5°	5490.0	5397.3	5258.2	5304.5	5348.5	5394.8	5370.4	5307.0	5111.8	5206.9	6380.6
45°	5912.1	5790.1	5533.9	5548.5	5729.1	5765.7	6060.9	6053.6	5660.8	5758.4	6968.6
47.5°	6197.6	6141.5	5987.7	5970.7	6229.3	6226.9	6758.8	6758.8	6239.1	6307.4	7600.6
50°	6622.1	6475.7	6409.9	6495.3	6627.0	6717.3	7471.3	7517.6	6807.6	6880.8	8427.7
52.5°	7119.9	6936.9	6771.0	6990.6	7224.8	7283.4	8176.4	8156.9	7244.3	7546.9	9396.4
55°	7532.3	7439.5	7324.9	7451.7	7834.8	7908.0	8884.0	8703.5	7681.1	8098.3	9862.4
57.5°	8012.9	8069.1	8093.5	8061.7	8518.0	8632.7	9691.6	9174.4	8056.9	8469.2	10135.7
60°	8737.6	8771.8	8803.5	8879.1	9362.3	9523.3	10330.9	9764.8	8293.5	8683.9	10157.7
62.5°	9840.5	9708.7	9779.5	10040.6	10428.5	10611.5	11272.8	10179.6	8474.1	8813.3	9440.3
65°	11102.0	10923.8	10850.6	11187.4	12192.6	12046.2	12448.8	10489.5	8213.0	8330.1	8005.6
67.5°	12380.5	12400.0	12212.2	12888.0	14120.2	14120.2	13542.0	10638.4	7505.4	6751.5	5614.4
70°	13395.6	13456.6	13559.0	14869.3	16821.3	17116.5	14896.2	10028.4	6063.4	4494.5	3069.5
72.5°	13380.9	13197.9	13722.5	16135.7	19275.9	19029.5	15179.2	7930.0	3784.4	2200.9	1407.9
73°	13080.8	12927.1	13500.5	16123.5	19376.0	19144.2	14971.8	7310.2	3337.9	1908.1	1251.7
75°	10682.3	10404.1	11380.1	14603.4	17926.6	18104.7	12719.7	4767.7	1830.0	1176.1	880.8
77.5°	4870.2	4992.2	6263.5	9796.6	13815.2	14025.1	8361.9	2061.8	1002.8	824.7	649.0
80°	1564.0	1642.1	2437.6	4870.2	8659.5	9037.7	3864.9	937.0	714.9	632.0	485.6
82.5°	597.8	595.4	1022.4	2025.2	4104.1	4345.6	1412.8	571.0	531.9	466.0	344.0
85°	209.8	219.6	385.5	800.3	1615.3	1690.9	490.4	317.2	368.4	312.3	197.6
87.5°	73.2	75.6	136.6	290.4	556.3	588.0	136.6	126.9	183.0	180.6	100.0
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°	3308.6	3308.6	3308.6	3308.6	3308.6	3308.6	3308.6	3308.6	3308.6	3308.6	3308.6
2.5°	3342.8	3364.7	3372.1	3459.9	3459.9	3459.9	3494.1	3494.1	3484.3	3459.9	3518.5
5°	3357.4	3396.5	3472.1	3547.7	3567.3	3584.3	3630.7	3591.7	3606.3	3581.9	3603.9
7.5°	3398.9	3452.6	3594.1	3640.5	3608.7	3645.3	3596.5	3569.7	3542.9	3552.6	3518.5
10°	3469.7	3538.0	3603.9	3689.3	3628.3	3591.7	3491.6	3467.2	3381.8	3352.5	3379.4
12.5°	3557.5	3640.5	3752.7	3721.0	3603.9	3498.9	3391.6	3289.1	3237.9	3164.7	3184.2
15°	3645.3	3740.5	3757.6	3703.9	3557.5	3425.7	3230.5	3086.6	3035.4	2969.5	3003.6
17.5°	3740.5	3830.8	3801.5	3662.4	3464.8	3264.7	3042.7	2901.2	2793.8	2752.3	2752.3
20°	3882.0	3925.9	3879.6	3594.1	3352.5	3089.0	2874.3	2713.3	2605.9	2588.8	2562.0
22.5°	3991.8	4062.6	3855.2	3494.1	3189.1	2859.7	2613.2	2552.2	2520.5	2493.7	2459.5
25°	4133.3	4130.9	3811.3	3401.3	2908.5	2586.4	2437.6	2432.7	2418.0	2408.3	2454.6
27.5°	4267.5	4211.4	3760.0	3172.0	2618.1	2379.0	2298.5	2352.2	2374.1	2359.5	2379.0
30°	4479.8	4387.1	3686.8	2928.0	2361.9	2169.2	2183.8	2257.0	2293.6	2315.6	2286.3
32.5°	4704.3	4562.8	3535.5	2674.2	2135.0	2037.4	2071.6	2147.2	2191.1	2215.5	2242.4
35°	5028.8	4699.4	3381.8	2342.4	1971.5	1956.9	1976.4	2017.9	2081.3	2098.4	2105.7
37.5°	5429.0	4906.8	3174.4	2076.4	1844.6	1861.7	1881.2	1895.9	1898.3	1930.0	1917.8
40°	5829.1	5082.5	2871.9	1822.7	1712.9	1805.6	1795.8	1769.0	1747.0	1717.8	1710.4
42.5°	6180.5	5236.2	2535.2	1608.0	1595.8	1747.0	1715.3	1647.0	1595.8	1573.8	1537.2
45°	6575.8	5453.4	2196.0	1473.8	1505.5	1676.3	1666.5	1561.6	1495.7	1417.6	1407.9
47.5°	7088.2	5680.3	1871.5	1334.7	1420.1	1649.4	1654.3	1520.1	1425.0	1320.0	1305.4
50°	7744.5	6007.3	1625.0	1276.1	1368.8	1610.4	1617.7	1464.0	1339.6	1232.2	1222.4
52.5°	8374.1	6341.5	1420.1	1185.8	1334.7	1564.0	1581.1	1412.8	1268.8	1134.6	1141.9
55°	8691.3	6219.5	1244.4	1120.0	1256.6	1488.4	1551.8	1376.2	1161.4	1068.7	1066.3
57.5°	8762.0	5919.4	1105.3	1051.6	1190.7	1407.9	1503.0	1266.4	1112.6	1034.6	1024.8
60°	8530.2	5394.8	995.5	978.4	1107.8	1324.9	1390.8	1207.8	1063.8	1000.4	985.8
62.5°	7959.3	4850.7	919.9	944.3	1037.0	1234.6	1320.0	1166.3	1017.5	973.6	941.8
65°	6527.0	3989.4	858.9	878.4	963.8	1146.8	1276.1	1120.0	976.0	934.5	932.1
67.5°	4521.3	2749.9	810.1	846.7	905.2	1083.4	1232.2	1068.7	922.3	907.7	888.2
70°	2315.6	1466.4	746.6	775.9	841.8	1002.8	1154.1	1015.0	866.2	863.8	839.4
72.5°	1173.6	858.9	673.4	717.4	763.7	897.9	1056.5	944.3	795.4	768.6	729.6
73°	1015.0	795.4	661.2	700.3	744.2	868.6	1027.2	927.2	785.7	746.6	710.0
75°	739.3	627.1	592.9	632.0	666.1	783.2	929.6	849.1	722.2	680.8	646.6
77.5°	553.9	483.1	492.9	536.8	566.1	675.9	827.2	768.6	653.9	597.8	583.2
80°	407.5	368.4	407.5	449.0	470.9	595.4	754.0	666.1	551.4	488.0	475.8
82.5°	290.4	268.4	314.8	341.6	351.4	492.9	678.3	531.9	417.2	334.3	307.4
85°	165.9	163.5	212.3	209.8	217.2	287.9	446.5	353.8	268.4	205.0	200.1
87.5°	73.2	80.5	107.4	85.4	90.3	136.6	190.3	131.8	109.8	61.0	46.4
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)