

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: P478522

Luminaire Tested: **IFLD-S-SA6A-735-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478522  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-735-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

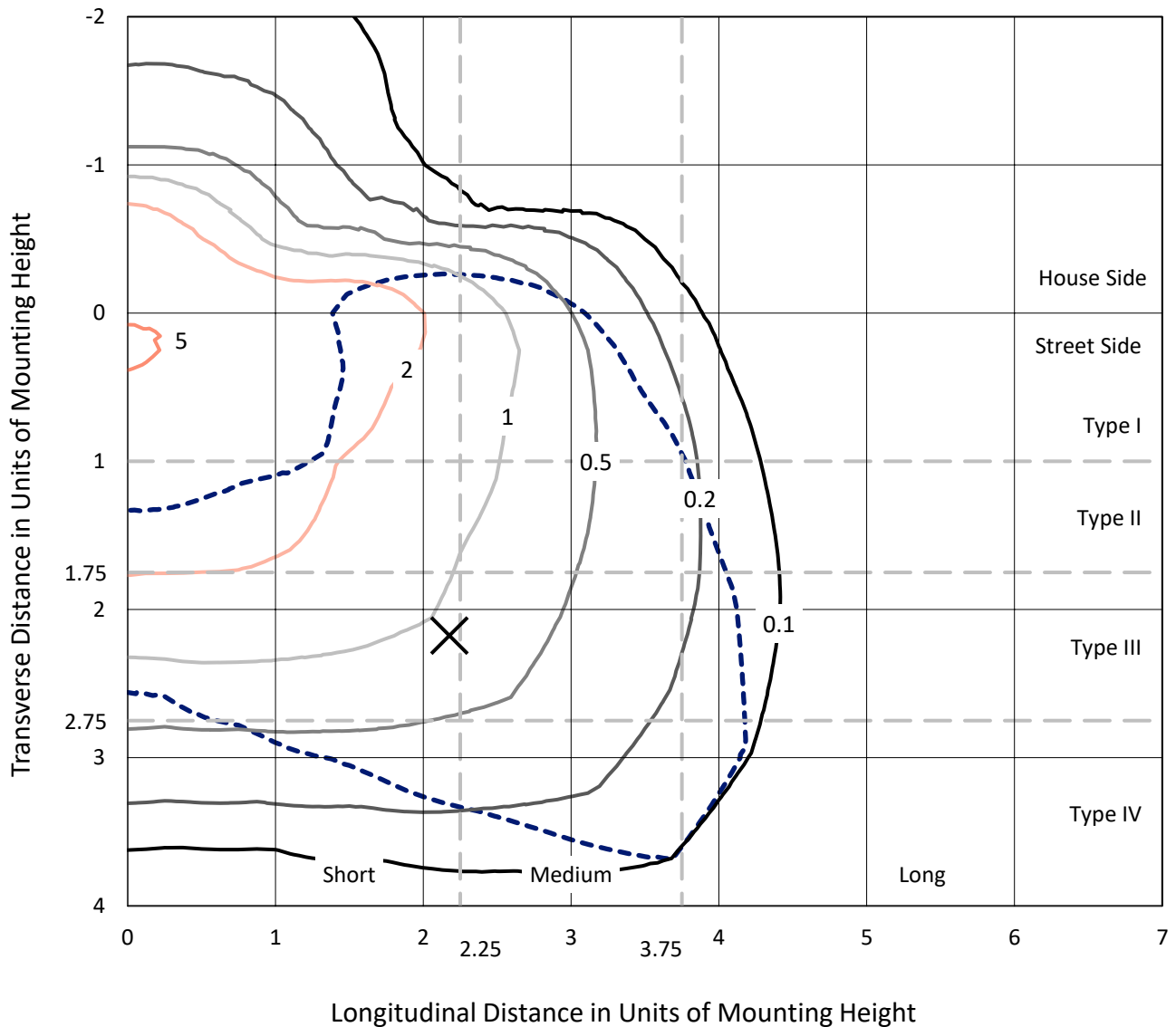
Lumens per Lamp: N/A  
Luminaire Lumens: 26907.1 lumens  
Efficiency: N/A  
Efficacy: 141.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6  
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

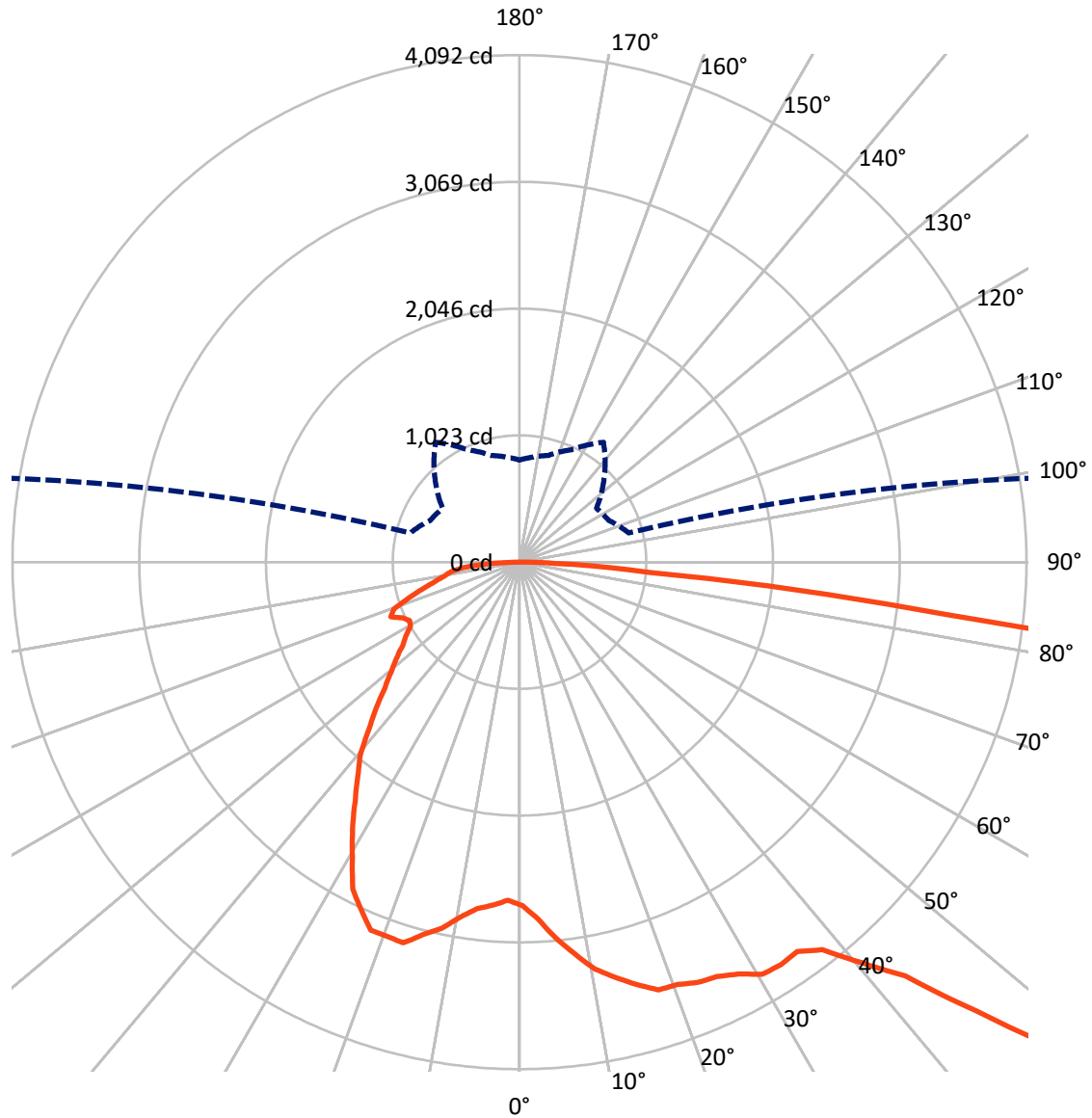
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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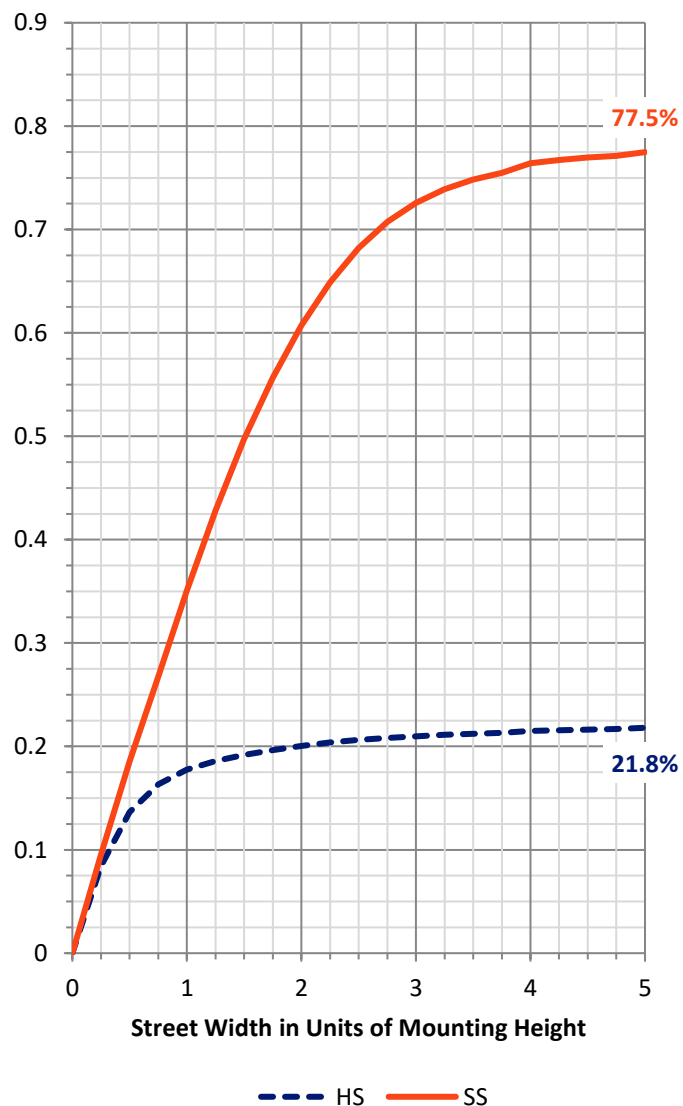
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5989.7	0.0	5989.7
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	20917.5	0.0	20917.5
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	26907.1	0.0	26907.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.5	1.1
10°-20°	943.4	3.5
20°-30°	1593.1	5.9
30°-40°	2204.6	8.2
40°-50°	3153.4	11.7
50°-60°	5086.1	18.9
60°-70°	7501.3	27.9
70°-80°	5447.3	20.2
80°-90°	694.4	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°	26907.1	100.0
0°-180°	26907.1	100.0

**Coefficient of Utilization**



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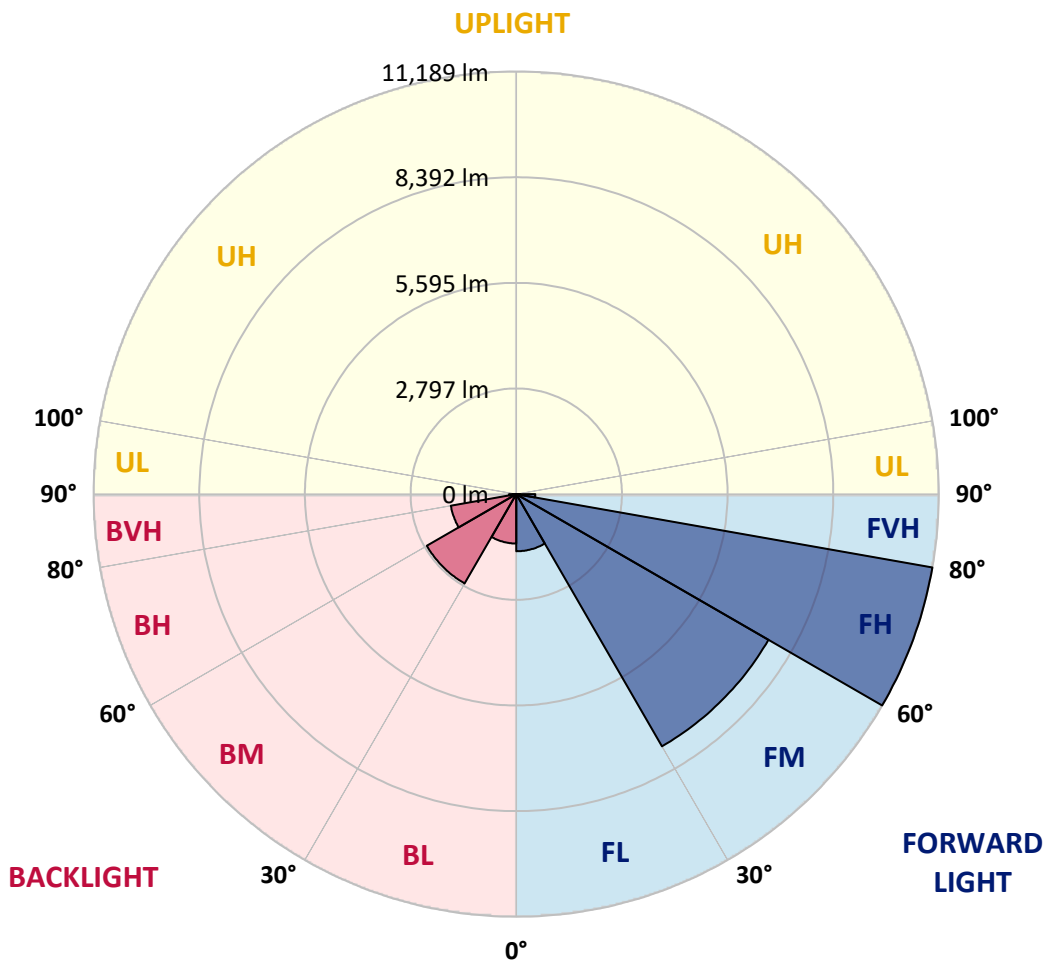
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1512.2	5.6			
FM (30°-60°)	7710.6	28.7			
FH (60°-80°)	11189.2	41.6			G4/12000
FVH (80°-90°)	505.4	1.9			G4/750
BL (0°-30°)	1307.8	4.9	B3/2500		
BM (30°-60°)	2733.5	10.2	B3/5000		
BH (60°-80°)	1759.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	189.0	0.7			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°	35°	44°	45°	55°	65°	75°	85°
0°	2770.9	2770.9	2770.9	2770.9	2770.9	2770.9	2770.9	2770.9	2770.9	2770.9	2770.9
2.5°	2918.9	2936.3	2918.9	2916.0	2887.0	2866.7	2884.1	2858.0	2829.0	2817.4	2791.3
5°	3185.9	3188.8	3156.8	3159.8	3098.8	3035.0	3046.6	2968.3	2884.1	2852.2	2800.0
7.5°	3458.6	3426.7	3380.3	3365.8	3270.0	3200.4	3191.7	3122.0	2991.5	2918.9	2846.4
10°	3635.6	3647.2	3571.8	3507.9	3426.7	3342.5	3339.6	3209.1	3133.6	3026.3	2933.4
12.5°	3792.3	3795.2	3731.4	3629.8	3528.2	3423.8	3438.3	3380.3	3252.6	3151.0	3058.2
15°	3914.1	3896.7	3827.1	3734.3	3626.9	3545.7	3536.9	3487.6	3380.3	3296.1	3142.3
17.5°	3949.0	3940.3	3870.6	3772.0	3667.5	3606.6	3629.8	3548.6	3505.0	3429.6	3281.6
20°	3882.2	3861.9	3850.3	3740.1	3664.6	3658.8	3638.5	3655.9	3583.4	3513.7	3406.4
22.5°	3760.4	3751.7	3745.9	3658.8	3624.0	3650.1	3684.9	3711.0	3699.4	3632.7	3510.8
25°	3635.6	3676.2	3638.5	3597.9	3647.2	3713.9	3705.2	3789.4	3789.4	3769.1	3667.5
27.5°	3722.6	3696.5	3667.5	3647.2	3664.6	3769.1	3763.3	3864.8	3902.5	3864.8	3748.8
30°	3940.3	3914.1	3830.0	3740.1	3716.8	3830.0	3859.0	3949.0	3966.4	3873.5	3774.9
32.5°	4349.4	4334.9	4201.4	3937.4	3795.2	3859.0	3873.5	3975.1	3960.6	3902.5	3861.9
35°	4955.8	4906.5	4720.8	4273.9	3960.6	3896.7	3859.0	3940.3	3995.4	3966.4	3928.7
37.5°	5620.2	5565.1	5335.9	4770.1	4259.4	3998.3	3969.3	4036.0	4099.8	4085.3	4007.0
40°	6255.7	6255.7	6049.7	5391.0	4703.4	4244.9	4250.7	4175.3	4233.3	4207.2	4221.7
42.5°	6882.4	6859.2	6775.0	6119.3	5179.2	4656.9	4564.1	4375.5	4479.9	4471.2	4491.5
45°	7517.8	7500.4	7477.2	6798.3	5861.1	5214.0	5164.7	4825.2	4921.0	4880.4	4967.4
47.5°	8025.6	8045.9	8045.9	7555.5	6589.3	5956.8	5884.3	5347.5	5530.3	5550.6	5570.9
50°	8457.9	8466.6	8457.9	8278.0	7401.8	6807.0	6659.0	6113.5	6296.3	6455.9	6641.6
52.5°	9055.6	9067.2	9026.6	8957.0	8504.3	7700.6	7535.2	6928.8	7303.1	7471.4	7805.1
55°	9792.6	9705.6	9630.1	9682.4	9563.4	8684.2	8513.0	7770.3	8333.2	8556.6	9223.9
57.5°	9929.0	10004.4	10195.9	10610.8	10782.0	9641.7	9543.1	8803.2	9496.7	9691.1	10805.2
60°	10410.6	10285.9	10755.9	11655.4	11846.9	10889.4	10787.8	9934.8	10654.4	10857.5	12264.7
62.5°	10726.9	10721.1	11417.5	12485.2	12920.5	12183.5	11977.5	11405.9	11904.9	12102.2	13854.7
65°	10634.1	10718.2	11954.2	12972.7	13817.0	13654.5	13535.6	12670.9	13329.6	13312.2	14890.6
67.5°	9786.8	10024.7	11614.8	13323.8	15151.7	15447.7	15410.0	14449.6	14487.3	14118.8	15351.9
70°	8611.7	8530.5	10178.5	12958.2	15819.1	17574.5	17565.8	15772.6	15528.9	14295.8	14028.8
72°	6615.5	6525.5	7880.5	11127.3	15468.0	18424.6	18685.8	16689.5	15517.3	13561.7	11588.7
72.5°	6006.1	5927.8	7277.0	10474.5	15079.2	18645.1	18523.3	16724.3	15395.4	13216.4	10825.6
75°	2765.1	2675.2	3635.6	6412.4	11762.7	16521.2	16936.2	15650.8	13445.6	10520.9	6484.9
77.5°	824.0	797.9	1169.3	2588.2	6836.0	12171.9	12331.4	11809.2	9386.4	5762.4	2405.4
80°	458.4	461.3	603.5	969.1	3006.0	7036.2	7610.7	7294.4	4604.7	1903.4	800.8
82.5°	255.3	269.8	377.2	574.5	1381.1	3229.4	3476.0	3351.3	1665.5	893.7	438.1
85°	133.5	139.3	197.3	307.6	783.4	1021.3	1050.3	1125.8	864.7	609.3	235.0
87.5°	52.2	52.2	72.5	127.7	290.2	316.3	284.3	345.3	496.2	394.6	116.1
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°	2770.9	2770.9	2770.9	2770.9	2770.9	2770.9	2770.9	2770.9	2770.9	2770.9	2770.9
2.5°	2814.5	2791.3	2788.4	2750.6	2762.2	2730.3	2733.2	2727.4	2730.3	2724.5	2710.0
5°	2800.0	2782.6	2733.2	2765.1	2736.1	2776.8	2808.7	2797.1	2805.8	2802.9	2805.8
7.5°	2820.3	2797.1	2791.3	2773.8	2800.0	2817.4	2843.5	2916.0	2910.2	2918.9	2936.3
10°	2881.2	2855.1	2837.7	2863.8	2849.3	2904.4	2933.4	2971.2	3037.9	3040.8	3006.0
12.5°	3000.2	2982.8	2947.9	2953.7	3003.1	3020.5	3037.9	3061.1	3104.6	3095.9	3127.8
15°	3136.5	3098.8	3078.5	3072.7	3084.3	3104.6	3101.7	3124.9	3148.1	3168.5	3159.8
17.5°	3235.2	3185.9	3191.7	3220.7	3217.8	3212.0	3174.3	3162.7	3174.3	3185.9	3180.1
20°	3336.7	3342.5	3299.0	3272.9	3261.3	3203.3	3174.3	3139.4	3104.6	3122.0	3148.1
22.5°	3464.4	3438.3	3374.5	3296.1	3238.1	3203.3	3113.3	3052.4	3052.4	3069.8	3061.1
25°	3609.5	3554.4	3444.1	3301.9	3229.4	3081.4	3017.6	3008.9	2985.7	3011.8	3023.4
27.5°	3722.6	3673.3	3522.4	3281.6	3081.4	2962.4	2924.7	2913.1	2950.8	2953.7	3000.2
30°	3769.1	3754.6	3534.0	3229.4	2930.5	2739.0	2715.8	2768.0	2808.7	2869.6	2872.5
32.5°	3830.0	3835.8	3551.5	3107.5	2733.2	2541.7	2506.9	2570.7	2686.8	2736.1	2773.8
35°	3931.6	3960.6	3536.9	2956.6	2524.3	2341.5	2335.7	2353.1	2466.3	2553.3	2602.7
37.5°	4108.5	4102.7	3534.0	2776.8	2358.9	2167.4	2121.0	2126.8	2202.3	2274.8	2266.1
40°	4346.5	4323.3	3525.3	2541.7	2144.2	2019.5	1941.1	1912.1	1906.3	1886.0	1891.8
42.5°	4671.4	4625.0	3522.4	2303.8	1949.8	1816.3	1761.2	1685.8	1630.7	1526.2	1532.0
45°	5124.1	5042.8	3447.0	2080.4	1758.3	1648.1	1563.9	1508.8	1389.8	1259.3	1259.3
47.5°	5823.3	5559.3	3449.9	1833.8	1572.6	1482.7	1424.6	1328.9	1201.2	1096.8	1085.2
50°	6853.4	6249.9	3351.3	1639.4	1421.7	1360.8	1299.9	1189.6	1067.8	995.2	1003.9
52.5°	8182.3	7279.9	3348.3	1465.3	1302.8	1259.3	1192.5	1093.9	1003.9	957.5	940.1
55°	9766.5	8643.6	3452.8	1323.1	1180.9	1157.7	1128.7	1047.4	960.4	919.8	916.9
57.5°	11388.5	9975.4	3621.1	1221.5	1076.5	1093.9	1073.6	1009.7	940.1	893.7	887.9
60°	12830.5	11031.6	3281.6	1099.7	983.6	1021.3	1050.3	995.2	957.5	954.6	934.3
62.5°	13918.6	11484.2	2495.3	1006.8	934.3	1003.9	1082.3	1117.1	1099.7	1122.9	1125.8
65°	14316.1	11211.5	1717.7	957.5	896.6	1044.5	1218.6	1207.0	1105.5	1062.0	1085.2
67.5°	13759.0	10106.0	1273.8	899.5	870.5	1128.7	1297.0	1151.9	998.1	992.3	974.9
70°	11832.4	8565.3	1038.7	838.5	826.9	1082.3	1262.2	1067.8	940.1	902.4	885.0
72°	9427.0	6670.6	911.1	795.0	757.3	966.2	1180.9	1001.0	890.8	844.3	824.0
72.5°	8605.9	6183.1	893.7	774.7	742.8	940.1	1140.3	980.7	879.2	838.5	806.6
75°	4720.8	3165.6	786.3	710.9	626.7	812.4	1056.2	919.8	829.8	771.8	766.0
77.5°	1755.4	1227.3	679.0	629.6	542.6	702.2	960.4	873.4	754.4	681.9	667.3
80°	673.2	647.0	554.2	531.0	455.5	615.1	885.0	783.4	641.2	568.7	545.5
82.5°	409.1	377.2	420.7	414.9	348.2	560.0	832.7	734.1	568.7	461.3	446.8
85°	223.4	223.4	293.1	281.4	243.7	446.8	629.6	487.5	359.8	296.0	301.8
87.5°	98.7	116.1	156.7	148.0	133.5	252.4	307.6	258.2	179.9	121.9	130.6
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)