

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: P478532

Luminaire Tested: **IFLD-L-SA7A-735-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478532  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-735-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

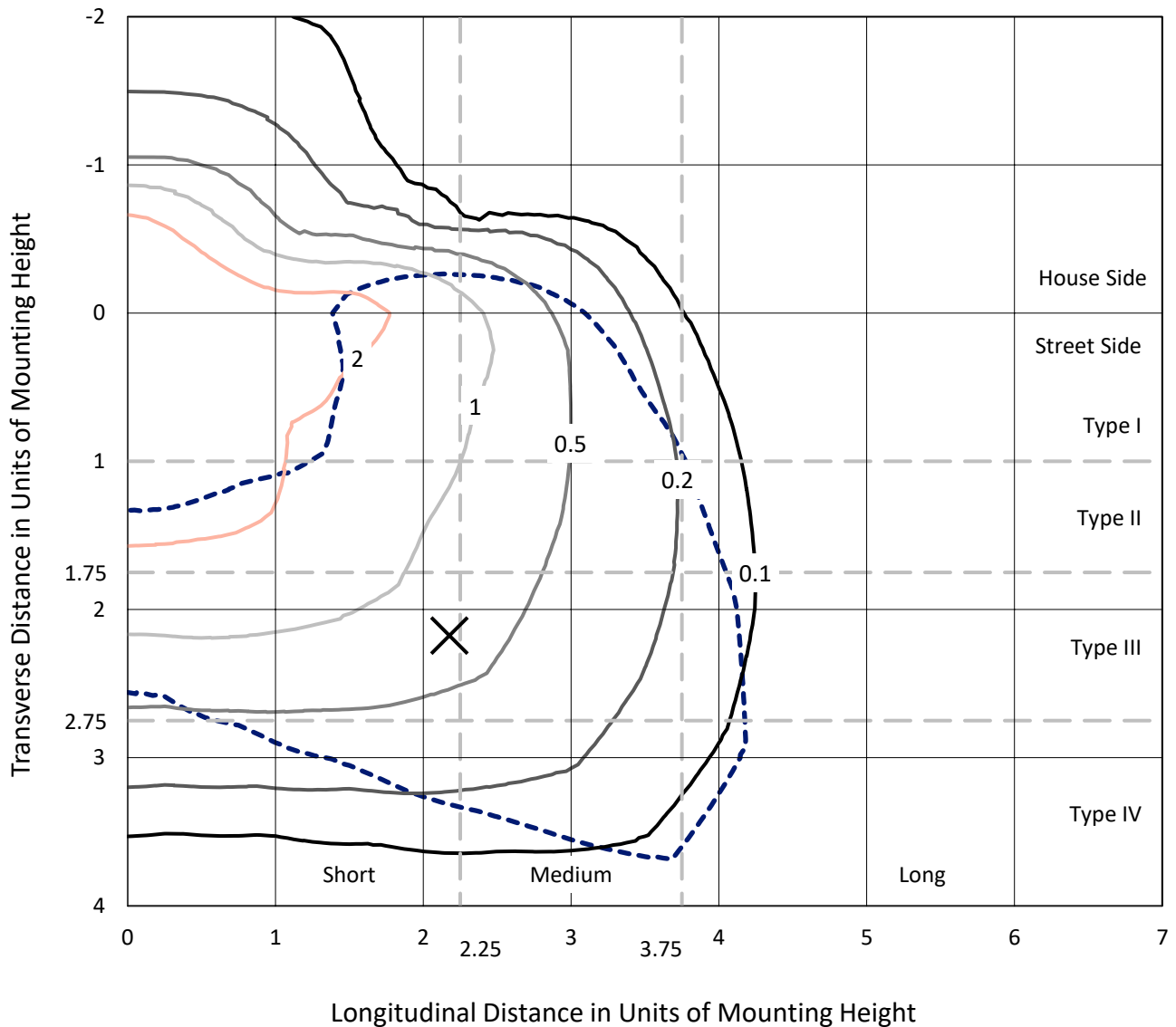
Lumens per Lamp: N/A  
Luminaire Lumens: 31204.5 lumens  
Efficiency: N/A  
Efficacy: 143.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 217.6  
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

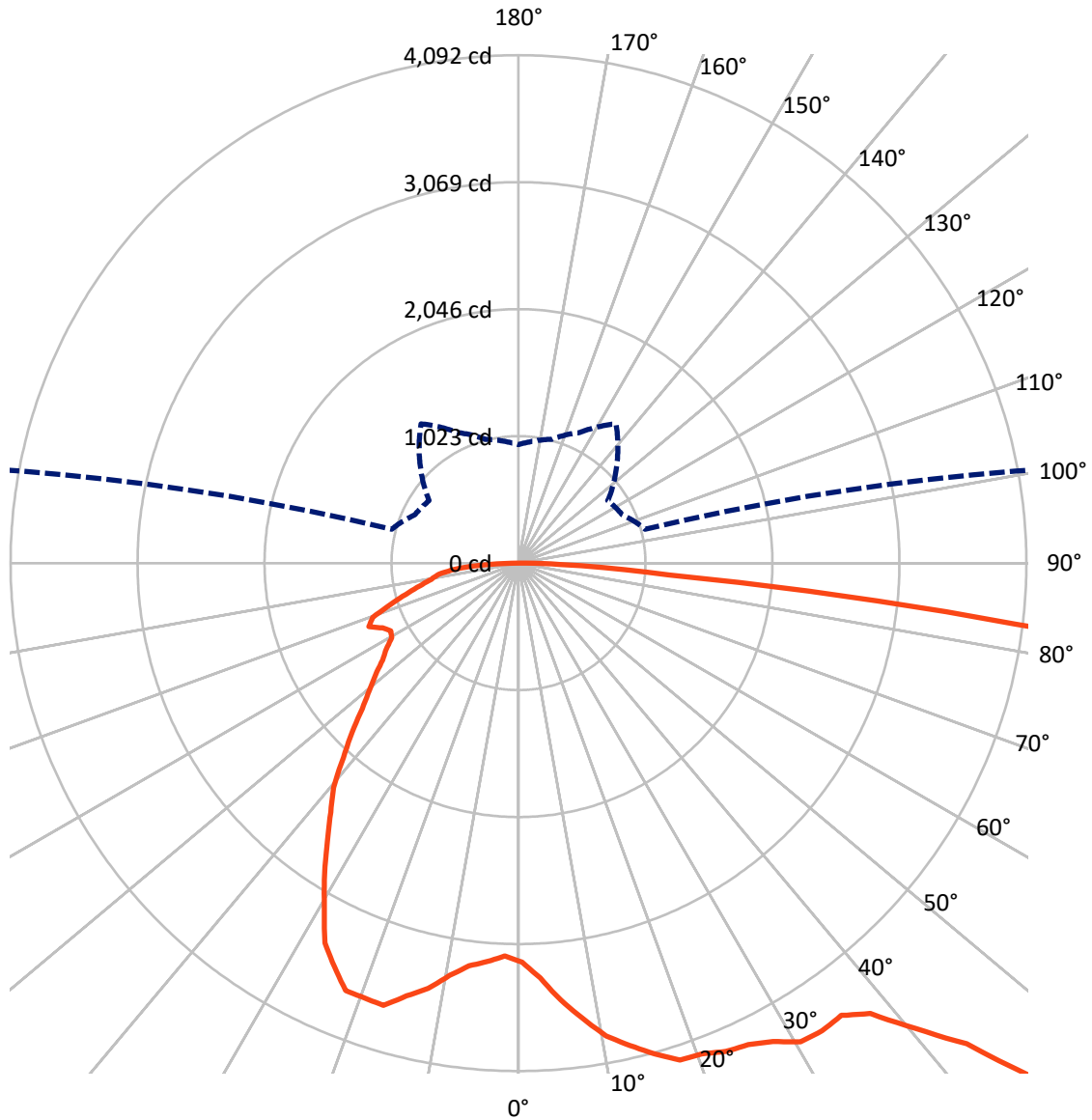
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 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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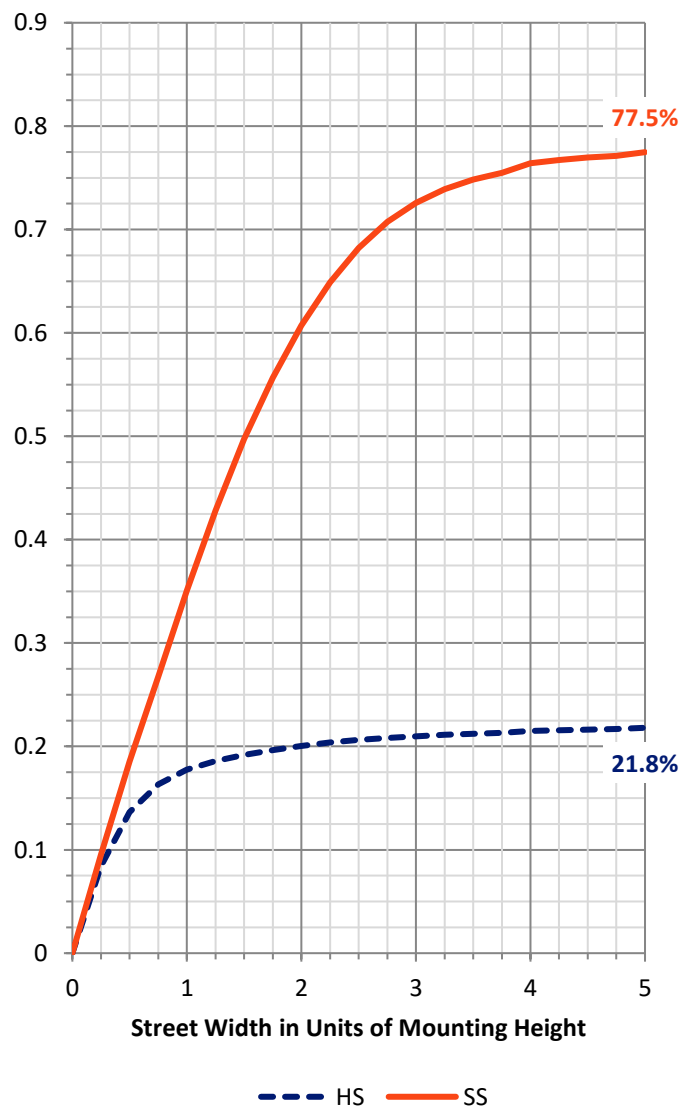
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6946.3	0.0	6946.3
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	24258.2	0.0	24258.2
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	31204.5	0.0	31204.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	328.8	1.1
10°-20°	1094.0	3.5
20°-30°	1847.5	5.9
30°-40°	2556.7	8.2
40°-50°	3657.1	11.7
50°-60°	5898.5	18.9
60°-70°	8699.4	27.9
70°-80°	6317.2	20.2
80°-90°	805.3	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°	31204.5	100.0
0°-180°	31204.5	100.0

**Coefficient of Utilization**



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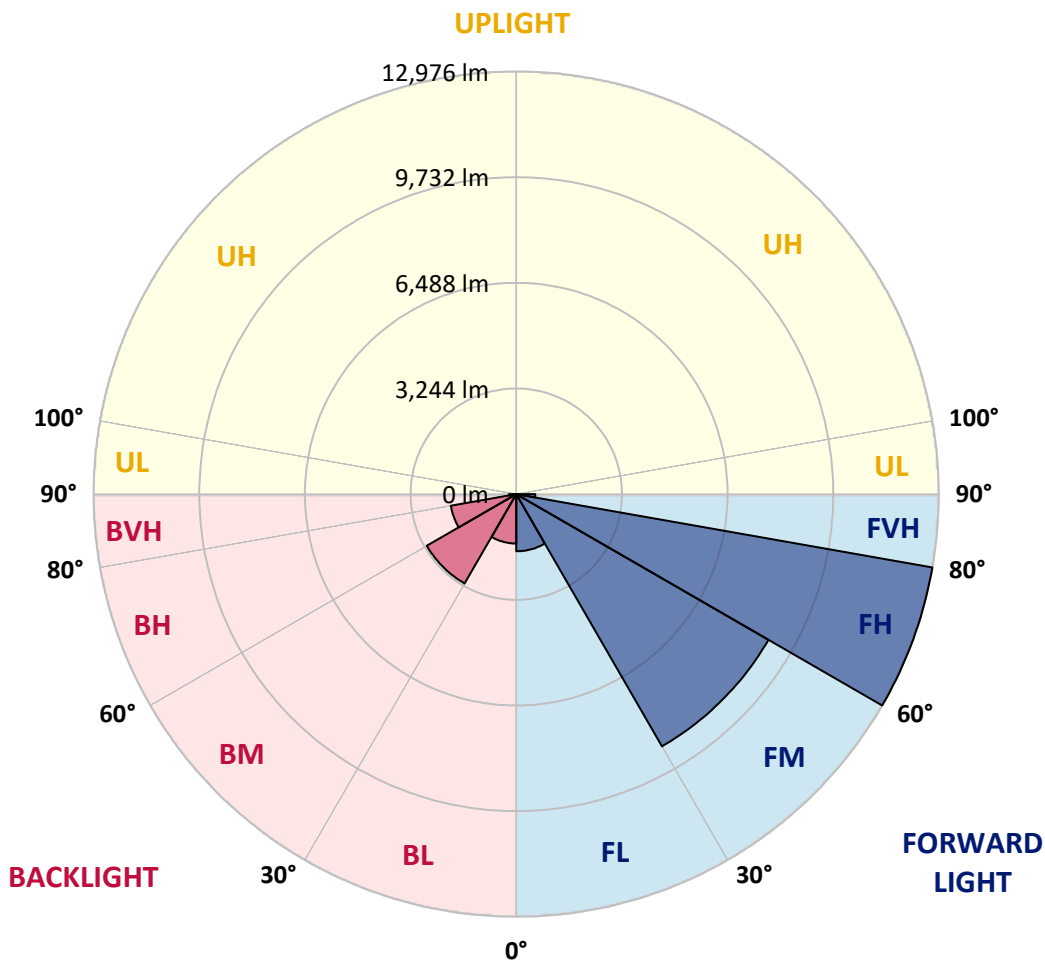
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1753.7	5.6			
FM (30°-60°)	8942.1	28.7			
FH (60°-80°)	12976.2	41.6			G5
FVH (80°-90°)	586.1	1.9			G4/750
BL (0°-30°)	1516.7	4.9	B3/2500		
BM (30°-60°)	3170.1	10.2	B3/5000		
BH (60°-80°)	2040.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	219.2	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3213.5	3213.5	3213.5	3213.5	3213.5	3213.5	3213.5	3213.5	3213.5	3213.5	3213.5
2.5°	3385.1	3405.3	3385.1	3381.7	3348.1	3324.5	3344.7	3314.4	3280.8	3267.3	3237.1
5°	3694.7	3698.0	3661.0	3664.4	3593.7	3519.7	3533.2	3442.3	3344.7	3307.7	3247.1
7.5°	4011.0	3974.0	3920.1	3903.3	3792.3	3711.5	3701.4	3620.7	3469.2	3385.1	3301.0
10°	4216.2	4229.7	4142.2	4068.2	3974.0	3876.4	3873.0	3721.6	3634.1	3509.6	3401.9
12.5°	4397.9	4401.3	4327.3	4209.5	4091.7	3970.6	3987.4	3920.1	3772.1	3654.3	3546.6
15°	4539.3	4519.1	4438.3	4330.7	4206.1	4111.9	4101.8	4044.6	3920.1	3822.5	3644.2
17.5°	4579.7	4569.6	4488.8	4374.4	4253.3	4182.6	4209.5	4115.3	4064.8	3977.3	3805.7
20°	4502.3	4478.7	4465.2	4337.4	4249.9	4243.2	4219.6	4239.8	4155.7	4074.9	3950.4
22.5°	4360.9	4350.8	4344.1	4243.2	4202.8	4233.1	4273.4	4303.7	4290.3	4212.9	4071.6
25°	4216.2	4263.4	4219.6	4172.5	4229.7	4307.1	4297.0	4394.6	4394.6	4371.0	4253.3
27.5°	4317.2	4286.9	4253.3	4229.7	4249.9	4371.0	4364.3	4482.1	4525.8	4482.1	4347.5
30°	4569.6	4539.3	4441.7	4337.4	4310.5	4441.7	4475.3	4579.7	4599.8	4492.2	4377.8
32.5°	5044.0	5027.2	4872.4	4566.2	4401.3	4475.3	4492.2	4609.9	4593.1	4525.8	4478.7
35°	5747.3	5690.1	5474.7	4956.5	4593.1	4519.1	4475.3	4569.6	4633.5	4599.8	4556.1
37.5°	6517.8	6453.9	6188.1	5531.9	4939.7	4636.9	4603.2	4680.6	4754.6	4737.8	4647.0
40°	7254.8	7254.8	7015.9	6252.0	5454.5	4922.9	4929.6	4842.1	4909.4	4879.1	4896.0
42.5°	7981.6	7954.7	7857.1	7096.6	6006.4	5400.7	5293.0	5074.3	5195.4	5185.3	5208.9
45°	8718.5	8698.3	8671.4	7884.0	6797.1	6046.8	5989.6	5595.9	5706.9	5659.8	5760.7
47.5°	9307.4	9330.9	9330.9	8762.3	7641.7	6908.2	6824.1	6201.5	6413.5	6437.1	6460.6
50°	9808.7	9818.8	9808.7	9600.1	8583.9	7894.1	7722.5	7089.9	7301.9	7486.9	7702.3
52.5°	10501.9	10515.4	10468.3	10387.5	9862.6	8930.5	8738.7	8035.4	8469.5	8664.7	9051.6
55°	11356.6	11255.7	11168.2	11228.7	11090.8	10071.2	9872.7	9011.3	9664.0	9923.1	10697.1
57.5°	11514.8	11602.2	11824.3	12305.5	12504.0	11181.6	11067.2	10209.2	11013.4	11238.8	12531.0
60°	12073.3	11928.6	12473.8	13516.9	13739.0	12628.5	12510.8	11521.5	12356.0	12591.5	14223.5
62.5°	12440.1	12433.4	13241.0	14479.2	14984.0	14129.3	13890.4	13227.5	13806.3	14035.1	16067.5
65°	12332.4	12430.0	13863.5	15044.6	16023.7	15835.3	15697.3	14694.6	15458.4	15438.3	17268.8
67.5°	11349.9	11625.8	13469.8	15451.7	17571.6	17914.8	17871.1	16757.3	16801.0	16373.7	17803.8
70°	9987.1	9892.9	11804.1	15027.7	18345.5	20381.3	20371.2	18291.7	18009.0	16579.0	16269.4
72°	7672.0	7567.7	9139.1	12904.5	17938.4	21367.2	21670.1	19355.0	17995.6	15727.6	13439.5
72.5°	6965.4	6874.5	8439.2	12147.4	17487.5	21623.0	21481.6	19395.4	17854.3	15327.2	12554.5
75°	3206.8	3102.5	4216.2	7436.5	13641.4	19159.9	19641.0	18150.4	15593.0	12201.2	7520.6
77.5°	955.6	925.4	1356.1	3001.5	7927.8	14115.8	14300.9	13695.2	10885.5	6682.7	2789.5
80°	531.7	535.0	699.9	1123.9	3486.1	8159.9	8826.2	8459.4	5340.1	2207.4	928.7
82.5°	296.1	312.9	437.4	666.3	1601.7	3745.2	4031.2	3886.5	1931.5	1036.4	508.1
85°	154.8	161.5	228.8	356.7	908.5	1184.5	1218.1	1305.6	1002.7	706.6	272.6
87.5°	60.6	60.6	84.1	148.1	336.5	366.8	329.8	400.4	575.4	457.6	134.6
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°	3213.5	3213.5	3213.5	3213.5	3213.5	3213.5	3213.5	3213.5	3213.5	3213.5	3213.5
2.5°	3264.0	3237.1	3233.7	3189.9	3203.4	3166.4	3169.8	3163.0	3166.4	3159.7	3142.8
5°	3247.1	3227.0	3169.8	3206.8	3173.1	3220.2	3257.2	3243.8	3253.9	3250.5	3253.9
7.5°	3270.7	3243.8	3237.1	3216.9	3247.1	3267.3	3297.6	3381.7	3375.0	3385.1	3405.3
10°	3341.4	3311.1	3290.9	3321.2	3304.4	3368.3	3401.9	3445.7	3523.1	3526.4	3486.1
12.5°	3479.3	3459.1	3418.8	3425.5	3482.7	3502.9	3523.1	3550.0	3600.5	3590.4	3627.4
15°	3637.5	3593.7	3570.2	3563.4	3576.9	3600.5	3597.1	3624.0	3650.9	3674.5	3664.4
17.5°	3751.9	3694.7	3701.4	3735.1	3731.7	3725.0	3681.2	3667.8	3681.2	3694.7	3688.0
20°	3869.7	3876.4	3825.9	3795.6	3782.2	3714.9	3681.2	3640.8	3600.5	3620.7	3650.9
22.5°	4017.7	3987.4	3913.4	3822.5	3755.3	3714.9	3610.6	3539.9	3539.9	3560.1	3550.0
25°	4186.0	4122.0	3994.2	3829.3	3745.2	3573.5	3499.5	3489.4	3462.5	3492.8	3506.2
27.5°	4317.2	4260.0	4085.0	3805.7	3573.5	3435.6	3391.8	3378.4	3422.1	3425.5	3479.3
30°	4371.0	4354.2	4098.5	3745.2	3398.6	3176.5	3149.6	3210.1	3257.2	3327.9	3331.3
32.5°	4441.7	4448.4	4118.7	3603.8	3169.8	2947.7	2907.3	2981.3	3115.9	3173.1	3216.9
35°	4559.5	4593.1	4101.8	3428.9	2927.5	2715.5	2708.8	2728.9	2860.2	2961.1	3018.3
37.5°	4764.7	4758.0	4098.5	3220.2	2735.7	2513.6	2459.8	2466.5	2554.0	2638.1	2628.0
40°	5040.6	5013.7	4088.4	2947.7	2486.7	2342.0	2251.1	2217.5	2210.8	2187.2	2193.9
42.5°	5417.5	5363.7	4085.0	2671.7	2261.2	2106.4	2042.5	1955.0	1891.1	1769.9	1776.7
45°	5942.4	5848.2	3997.5	2412.6	2039.1	1911.3	1813.7	1749.8	1611.8	1460.4	1460.4
47.5°	6753.4	6447.2	4000.9	2126.6	1823.8	1719.5	1652.2	1541.1	1393.1	1271.9	1258.5
50°	7947.9	7248.0	3886.5	1901.2	1648.8	1578.1	1507.5	1379.6	1238.3	1154.2	1164.3
52.5°	9489.1	8442.6	3883.1	1699.3	1510.8	1460.4	1383.0	1268.6	1164.3	1110.4	1090.2
55°	11326.3	10024.1	4004.3	1534.4	1369.5	1342.6	1309.0	1214.7	1113.8	1066.7	1063.3
57.5°	13207.3	11568.6	4199.4	1416.6	1248.4	1268.6	1245.0	1171.0	1090.2	1036.4	1029.7
60°	14879.7	12793.4	3805.7	1275.3	1140.7	1184.5	1218.1	1154.2	1110.4	1107.1	1083.5
62.5°	16141.5	13318.4	2893.8	1167.6	1083.5	1164.3	1255.1	1295.5	1275.3	1302.2	1305.6
65°	16602.5	13002.0	1992.0	1110.4	1039.8	1211.4	1413.3	1399.8	1282.0	1231.6	1258.5
67.5°	15956.4	11720.0	1477.2	1043.1	1009.5	1309.0	1504.1	1335.9	1157.5	1150.8	1130.6
70°	13722.1	9933.2	1204.6	972.5	959.0	1255.1	1463.7	1238.3	1090.2	1046.5	1026.3
72°	10932.6	7735.9	1056.6	922.0	878.2	1120.5	1369.5	1160.9	1033.0	979.2	955.6
72.5°	9980.4	7170.6	1036.4	898.4	861.4	1090.2	1322.4	1137.3	1019.6	972.5	935.4
75°	5474.7	3671.1	911.9	824.4	726.8	942.2	1224.8	1066.7	962.4	895.1	888.3
77.5°	2035.8	1423.4	787.4	730.2	629.2	814.3	1113.8	1012.8	874.9	790.8	773.9
80°	780.7	750.4	642.7	615.8	528.3	713.4	1026.3	908.5	743.6	659.5	632.6
82.5°	474.5	437.4	487.9	481.2	403.8	649.4	965.7	851.3	659.5	535.0	518.2
85°	259.1	259.1	339.9	326.4	282.7	518.2	730.2	565.3	417.3	343.2	350.0
87.5°	114.4	134.6	181.7	171.6	154.8	292.7	356.7	299.5	208.6	141.3	151.4
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)