

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: P484354

Luminaire Tested: **IFLD-S-SA2C-735-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484354  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-735-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

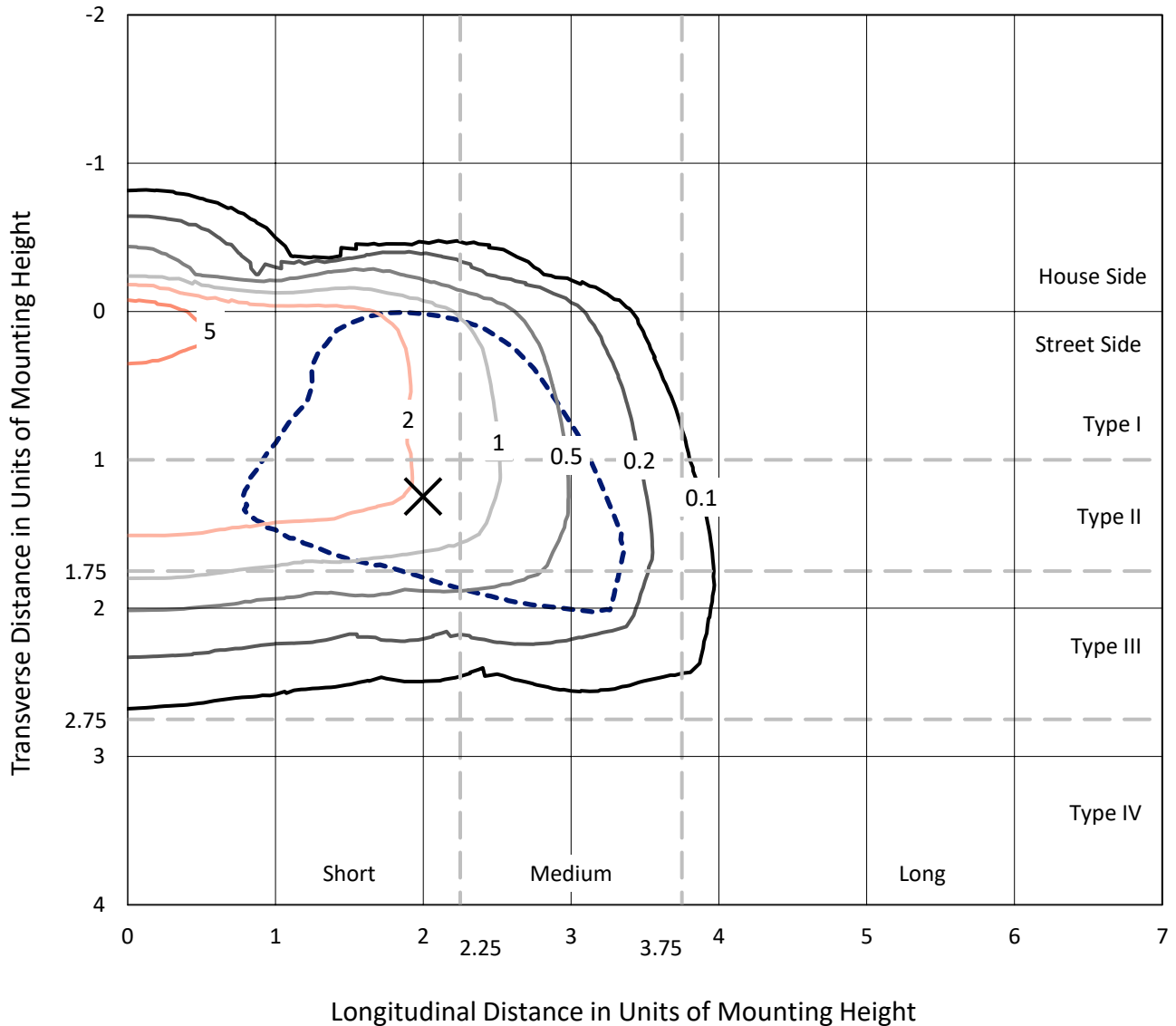
Lumens per Lamp: N/A  
Luminaire Lumens: 11723.8 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2  
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

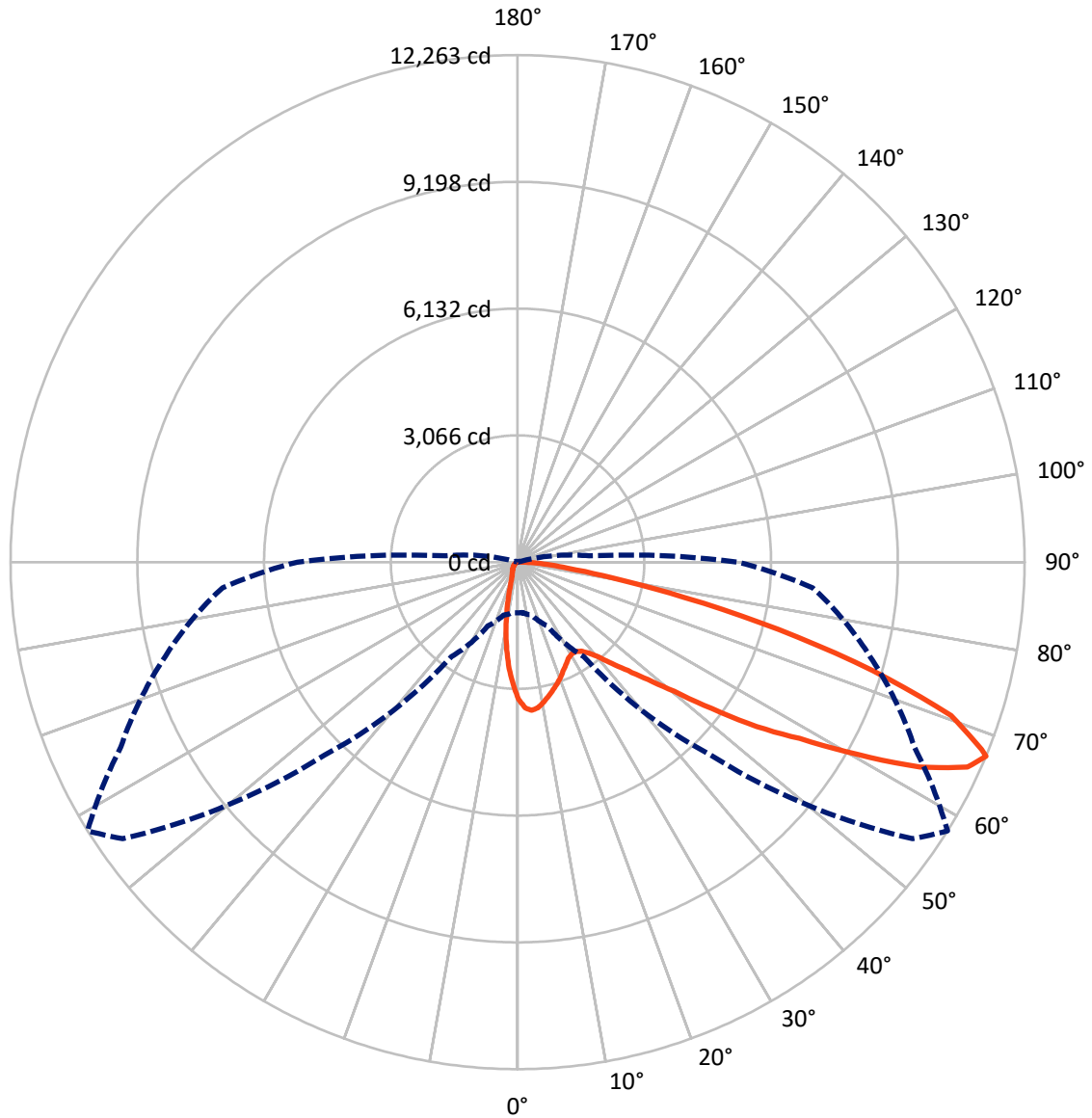
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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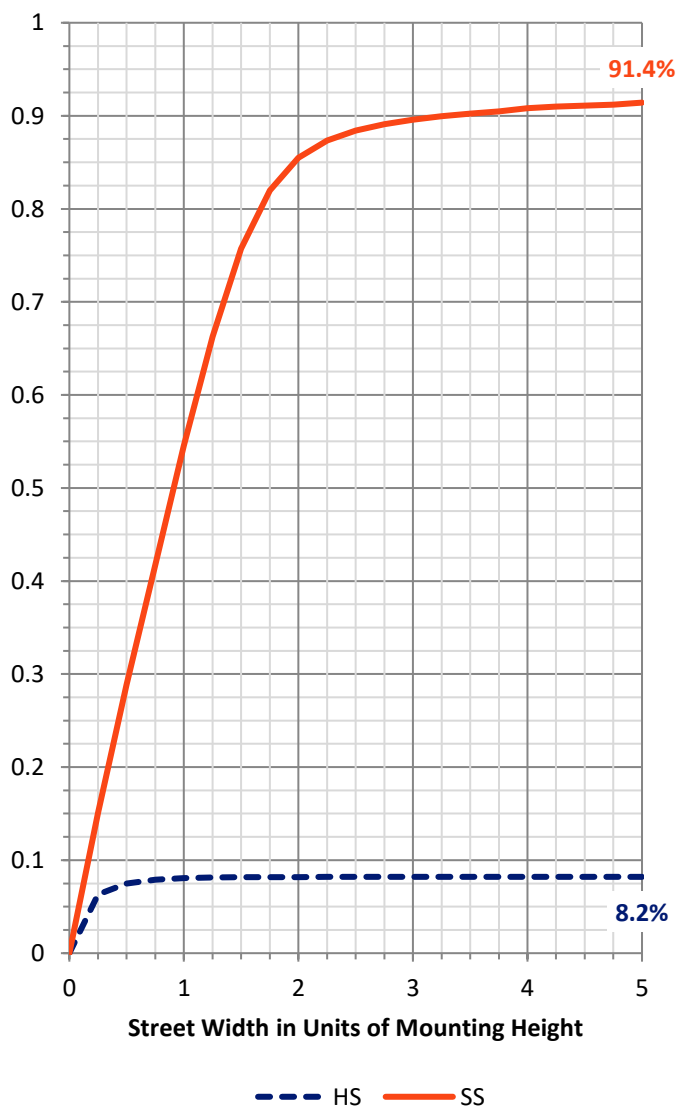
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	969.1	0.0	969.1
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	10754.7	0.0	10754.7
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	11723.8	0.0	11723.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.5	2.2
10°-20°	546.6	4.7
20°-30°	725.3	6.2
30°-40°	1005.0	8.6
40°-50°	1639.9	14.0
50°-60°	2882.4	24.6
60°-70°	3192.5	27.2
70°-80°	1323.0	11.3
80°-90°	145.6	1.2
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°	11723.8	100.0
0°-180°	11723.8	100.0

**Coefficient of Utilization**



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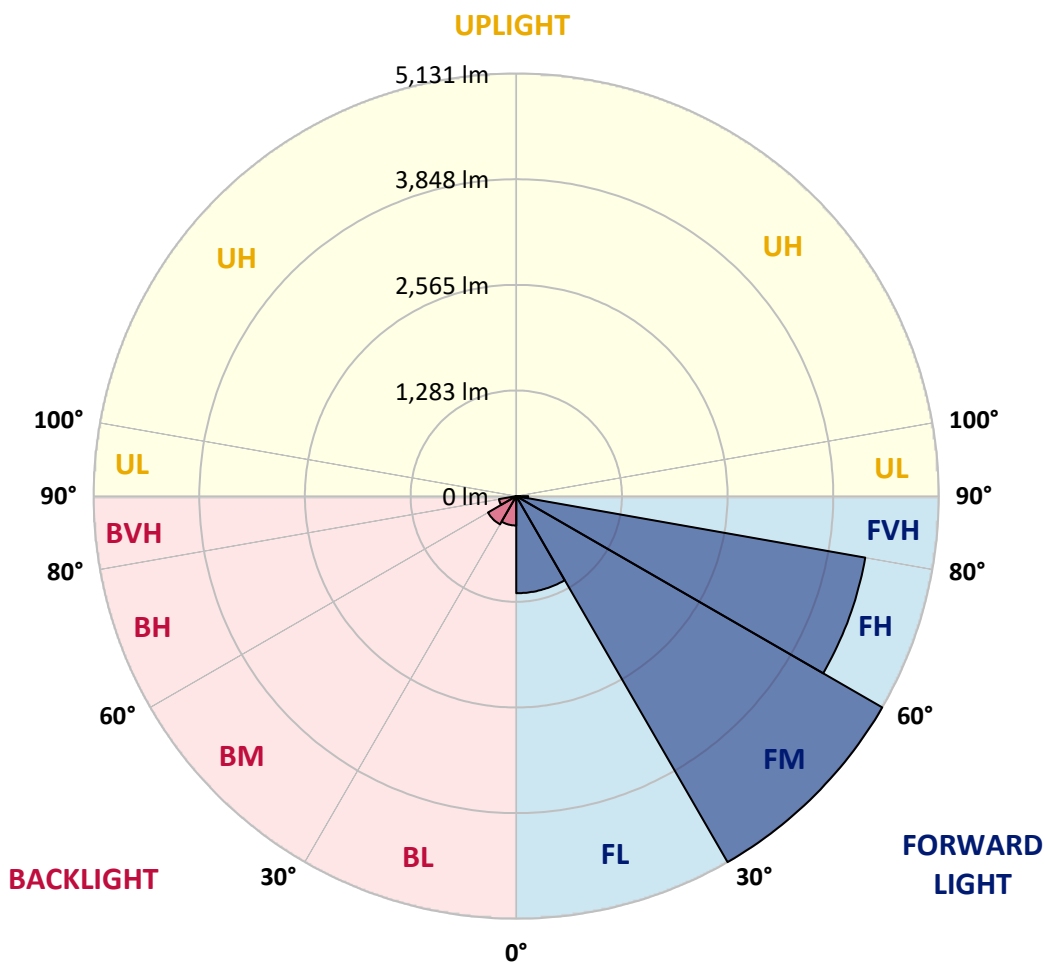
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1178.6	10.1			
FM (30°-60°)	5130.5	43.8			
FH (60°-80°)	4302.4	36.7			G2/5000
FVH (80°-90°)	143.2	1.2			G2/225
BL (0°-30°)	356.9	3.0	B1/500		
BM (30°-60°)	396.7	3.4	B1/1000		
BH (60°-80°)	213.1	1.8	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3321.5	3321.5	3321.5	3321.5	3321.5	3321.5	3321.5	3321.5	3321.5	3321.5	3321.5
2.5°	3614.1	3626.6	3637.5	3617.2	3634.3	3609.4	3545.6	3531.6	3520.7	3425.8	3371.3
5°	3612.6	3598.6	3609.4	3618.8	3595.4	3614.1	3598.6	3600.1	3558.1	3472.5	3319.9
7.5°	3371.3	3365.1	3371.3	3416.4	3467.8	3508.3	3531.6	3555.0	3527.0	3399.3	3251.5
10°	3046.0	3077.1	3094.3	3175.2	3254.6	3329.3	3402.4	3446.0	3438.2	3386.9	3176.7
12.5°	2818.8	2809.4	2871.7	2924.6	3004.0	3155.0	3282.6	3323.1	3369.7	3298.2	3078.7
15°	2608.6	2583.7	2621.1	2712.9	2848.3	2968.2	3147.2	3207.9	3267.0	3285.7	3025.8
17.5°	2407.9	2420.3	2459.2	2541.7	2669.3	2837.4	3005.5	3092.7	3234.3	3209.4	2946.4
20°	2311.4	2337.8	2351.8	2393.8	2482.6	2650.7	2901.3	2971.3	3122.3	3207.9	2868.6
22.5°	2316.0	2316.0	2283.3	2308.2	2389.2	2519.9	2759.6	2837.4	3077.1	3126.9	2798.5
25°	2365.8	2334.7	2336.3	2306.7	2340.9	2412.5	2632.0	2726.9	2985.3	3134.7	2761.2
27.5°	2403.2	2397.0	2387.6	2379.8	2336.3	2347.2	2547.9	2625.8	2949.5	3125.4	2703.6
30°	2538.6	2510.6	2501.2	2484.1	2426.5	2373.6	2481.0	2579.1	2921.5	3147.2	2670.9
32.5°	2652.2	2656.9	2664.7	2614.9	2565.1	2434.3	2499.7	2577.5	2901.3	3197.0	2703.6
35°	2795.4	2815.6	2818.8	2803.2	2750.3	2621.1	2577.5	2644.4	2935.5	3285.7	2706.7
37.5°	3013.3	2991.5	3050.7	3056.9	3019.5	2848.3	2758.1	2784.5	3036.7	3427.3	2825.0
40°	3155.0	3181.4	3291.9	3360.4	3296.6	3140.9	3019.5	3014.9	3183.0	3649.9	2971.3
42.5°	3312.2	3371.3	3492.7	3640.6	3632.8	3488.0	3365.1	3344.8	3442.9	3972.1	3203.2
45°	3527.0	3579.9	3749.5	3972.1	4093.5	3970.5	3785.3	3744.9	3758.9	4411.0	3598.6
47.5°	3883.4	3869.4	4113.7	4333.2	4532.4	4437.5	4358.1	4239.8	4228.9	4927.8	4144.9
50°	4286.5	4283.4	4501.3	4750.3	4980.7	5165.9	5033.6	4904.4	4907.5	5629.7	4787.7
52.5°	4669.4	4730.1	4965.1	5212.6	5607.9	5807.2	5934.8	5883.4	5636.0	6257.0	5475.6
55°	4871.7	4924.7	5158.1	5584.6	6208.7	6720.8	7066.4	7022.8	6544.9	6963.6	6154.3
57.5°	4680.3	4716.1	5032.1	5590.8	6629.0	7771.4	8103.0	8048.5	7485.0	7503.7	6974.5
60°	3878.7	3934.7	4404.8	5060.1	6465.6	8580.8	9530.2	9447.8	8341.1	8187.0	7502.2
62.5°	2686.5	2723.8	3109.8	3925.4	5690.4	8862.5	10878.1	10923.3	9243.9	8719.3	7659.4
65°	1740.1	1737.0	1958.0	2510.6	4032.8	8009.6	11675.1	11955.2	10115.5	8800.3	7611.1
67°	1229.6	1224.9	1329.2	1702.8	2792.3	6599.4	11661.0	12263.4	10588.6	8823.6	7164.4
67.5°	1134.7	1130.0	1229.6	1565.8	2519.9	6137.1	11486.7	12104.6	10755.2	8790.9	6968.3
70°	881.0	868.5	905.9	1078.6	1467.7	3969.0	9830.6	11119.4	10409.6	7975.3	5564.4
72.5°	636.6	650.6	709.7	885.6	1151.8	2135.5	7492.8	8991.7	8694.4	6011.1	3536.3
75°	443.6	456.0	551.0	722.2	1056.8	1295.0	5066.3	6521.6	6056.2	3318.4	1506.7
77.5°	231.9	247.5	351.8	577.4	960.3	1002.4	3027.3	4135.5	3209.4	1181.4	415.6
80°	107.4	115.2	175.9	409.4	803.1	881.0	1765.0	2300.5	1284.1	264.6	143.2
82.5°	46.7	51.4	80.9	235.0	569.7	770.5	1092.6	1206.3	465.4	85.6	88.7
85°	9.3	10.9	31.1	124.5	275.5	466.9	767.3	716.0	233.5	42.0	70.0
87.5°	0.0	0.0	7.8	35.8	74.7	138.5	325.3	325.3	71.6	21.8	26.5
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°	3321.5	3321.5	3321.5	3321.5	3321.5	3321.5	3321.5	3321.5	3321.5	3321.5	3321.5
2.5°	3323.1	3267.0	3144.1	3030.4	2949.5	2857.7	2736.3	2681.8	2661.6	2633.5	2591.5
5°	3235.9	3167.4	2957.3	2745.6	2513.7	2337.8	2151.0	2042.1	1959.6	1908.2	1891.1
7.5°	3112.9	2972.9	2689.6	2350.3	2049.9	1788.4	1505.1	1313.7	1190.7	1140.9	1094.2
10°	3014.9	2832.8	2401.6	1979.8	1579.8	1196.9	877.8	709.7	582.1	533.9	527.6
12.5°	2887.2	2669.3	2132.4	1601.6	1098.9	712.9	485.6	421.8	386.0	379.8	375.1
15°	2781.4	2521.5	1877.1	1240.5	711.3	445.1	378.2	362.7	353.3	350.2	351.8
17.5°	2709.8	2362.7	1615.6	902.8	468.5	364.2	348.6	339.3	334.6	333.1	328.4
20°	2568.2	2228.9	1357.2	631.9	365.8	336.2	323.7	316.0	311.3	309.7	308.2
22.5°	2487.2	2059.2	1098.9	440.5	325.3	305.1	295.7	289.5	281.7	277.1	275.5
25°	2406.3	1934.7	868.5	342.4	295.7	281.7	267.7	259.9	247.5	241.3	239.7
27.5°	2311.4	1811.7	669.3	297.3	266.2	252.1	238.1	225.7	210.1	203.9	200.8
30°	2256.9	1691.9	504.3	266.2	244.4	225.7	208.6	193.0	175.9	165.0	161.9
32.5°	2228.9	1582.9	378.2	242.8	221.0	200.8	179.0	160.3	144.8	135.4	133.9
35°	2194.6	1477.1	297.3	221.0	199.2	177.4	155.6	137.0	121.4	113.6	110.5
37.5°	2230.4	1414.8	247.5	203.9	182.1	157.2	133.9	115.2	102.7	94.9	93.4
40°	2328.5	1363.5	214.8	188.3	165.0	138.5	116.7	98.1	87.2	80.9	77.8
42.5°	2479.5	1363.5	194.6	172.8	149.4	121.4	99.6	85.6	74.7	68.5	66.9
45°	2753.4	1405.5	177.4	157.2	130.7	104.3	85.6	71.6	60.7	54.5	52.9
47.5°	3137.8	1502.0	163.4	143.2	116.7	91.8	74.7	60.7	49.8	43.6	42.0
50°	3654.6	1721.5	149.4	126.1	104.3	79.4	62.3	48.3	38.9	32.7	31.1
52.5°	4299.0	2032.7	135.4	116.7	88.7	66.9	49.8	38.9	29.6	24.9	23.3
55°	4980.7	2414.1	118.3	104.3	76.3	56.0	40.5	29.6	21.8	18.7	17.1
57.5°	5667.1	2708.3	104.3	90.3	62.3	45.1	32.7	23.3	15.6	12.5	10.9
60°	6031.3	2736.3	90.3	74.7	49.8	35.8	24.9	17.1	10.9	7.8	6.2
62.5°	6087.3	2487.2	77.8	60.7	40.5	28.0	17.1	12.5	6.2	3.1	3.1
65°	5799.4	2073.2	66.9	48.3	31.1	20.2	12.5	7.8	3.1	1.6	0.0
67°	5332.5	1737.0	57.6	40.5	24.9	15.6	9.3	4.7	1.6	0.0	0.0
67.5°	5151.9	1643.6	54.5	37.4	23.3	14.0	7.8	4.7	1.6	0.0	0.0
70°	3998.6	1173.6	40.5	26.5	17.1	10.9	6.2	3.1	0.0	0.0	0.0
72.5°	2449.9	686.4	31.1	18.7	12.5	7.8	4.7	1.6	0.0	0.0	0.0
75°	1027.3	236.6	26.5	14.0	9.3	4.7	3.1	1.6	0.0	0.0	0.0
77.5°	267.7	88.7	18.7	9.3	6.2	4.7	3.1	1.6	0.0	0.0	0.0
80°	109.0	40.5	12.5	6.2	6.2	4.7	3.1	1.6	0.0	0.0	0.0
82.5°	71.6	18.7	7.8	6.2	4.7	3.1	1.6	0.0	0.0	0.0	0.0
85°	54.5	10.9	4.7	4.7	3.1	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	23.3	6.2	4.7	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
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)