

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: P483964

Luminaire Tested: **IFLD-S-SA2C-735-U-SL2-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P483964  
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-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2  
distribution lens with House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

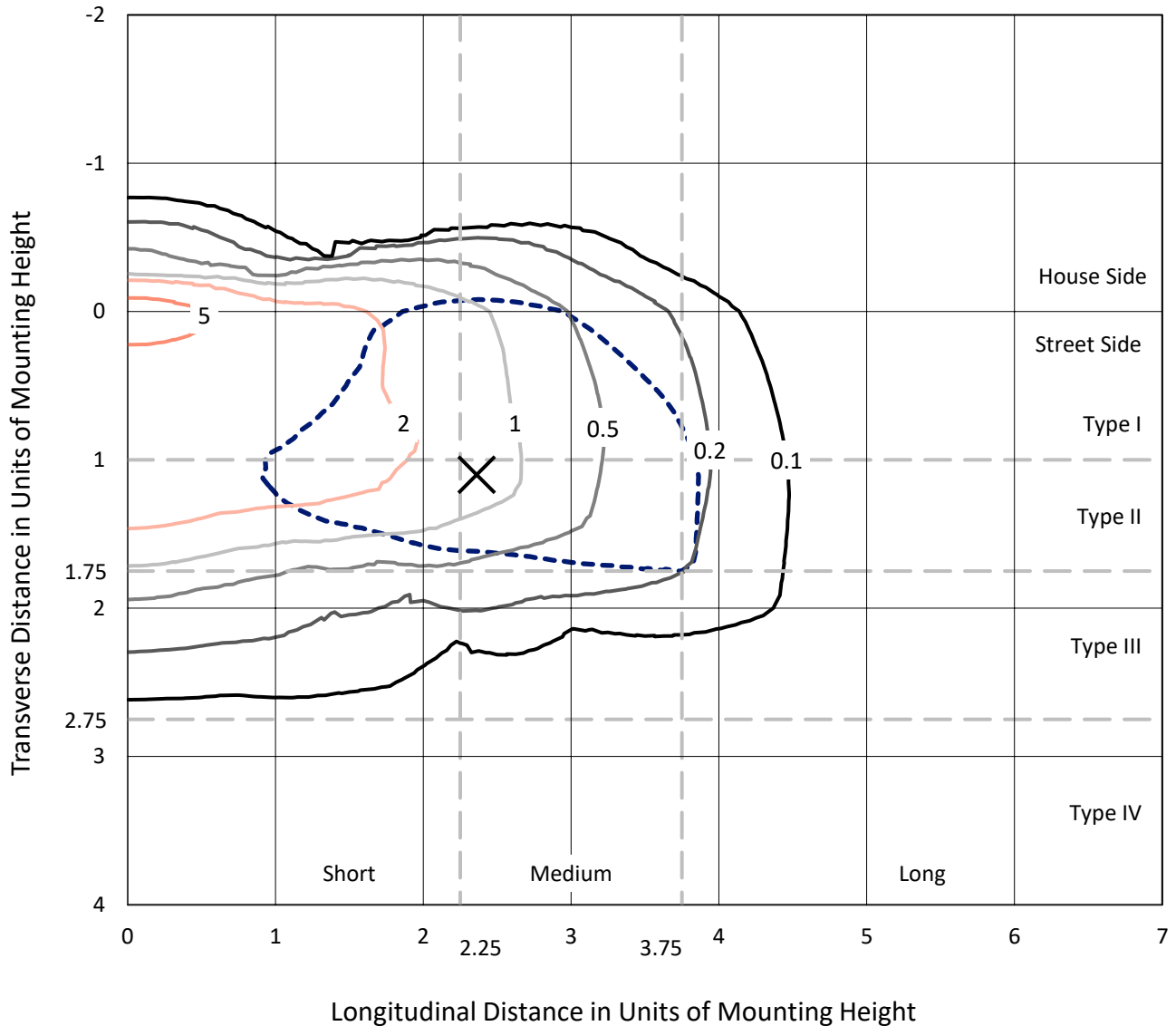
Lumens per Lamp: N/A  
Luminaire Lumens: 11538.1 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

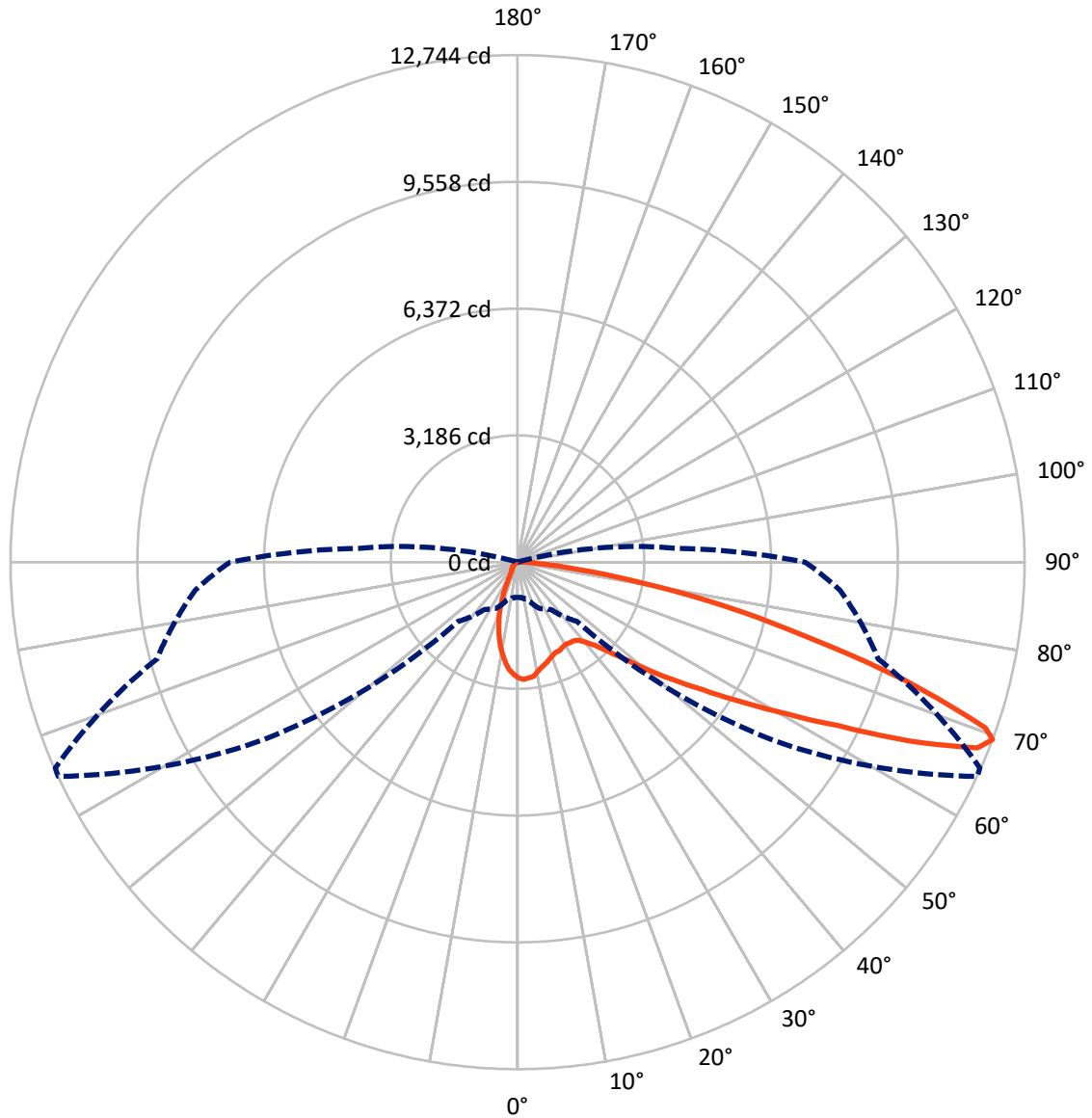
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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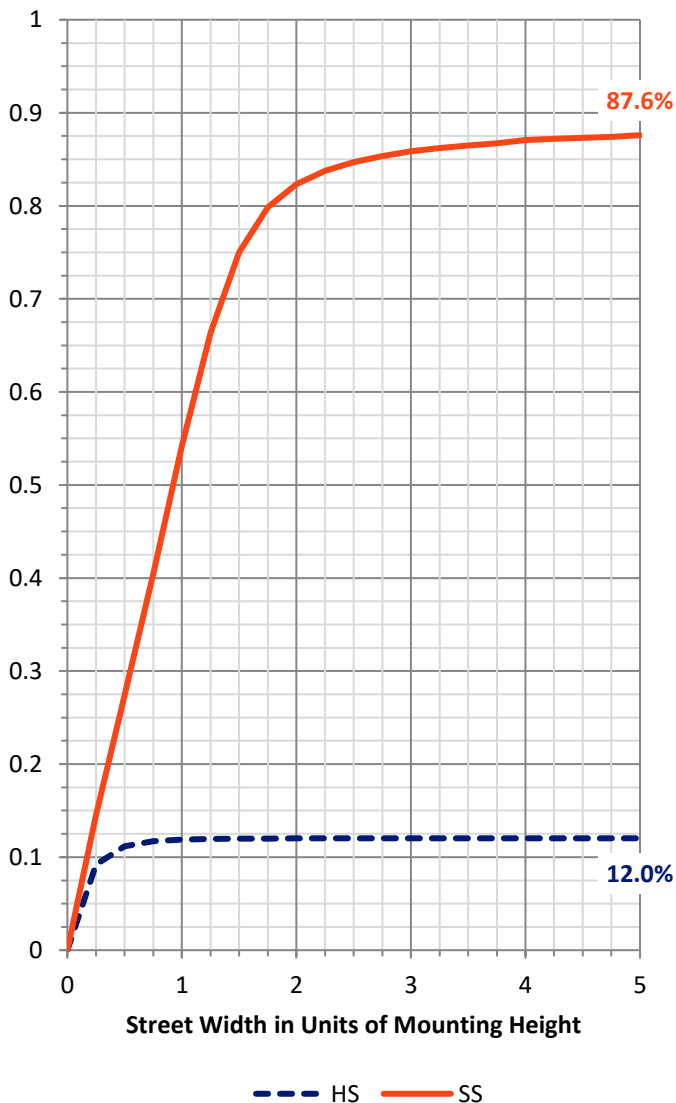
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1399.6	0.0	1399.6
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	10138.5	0.0	10138.5
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	11538.1	0.0	11538.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.1	2.1
10°-20°	520.9	4.5
20°-30°	725.1	6.3
30°-40°	1027.6	8.9
40°-50°	1619.5	14.0
50°-60°	2627.8	22.8
60°-70°	2934.8	25.4
70°-80°	1652.6	14.3
80°-90°	191.8	1.7
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°	11538.1	100.0
0°-180°	11538.1	100.0



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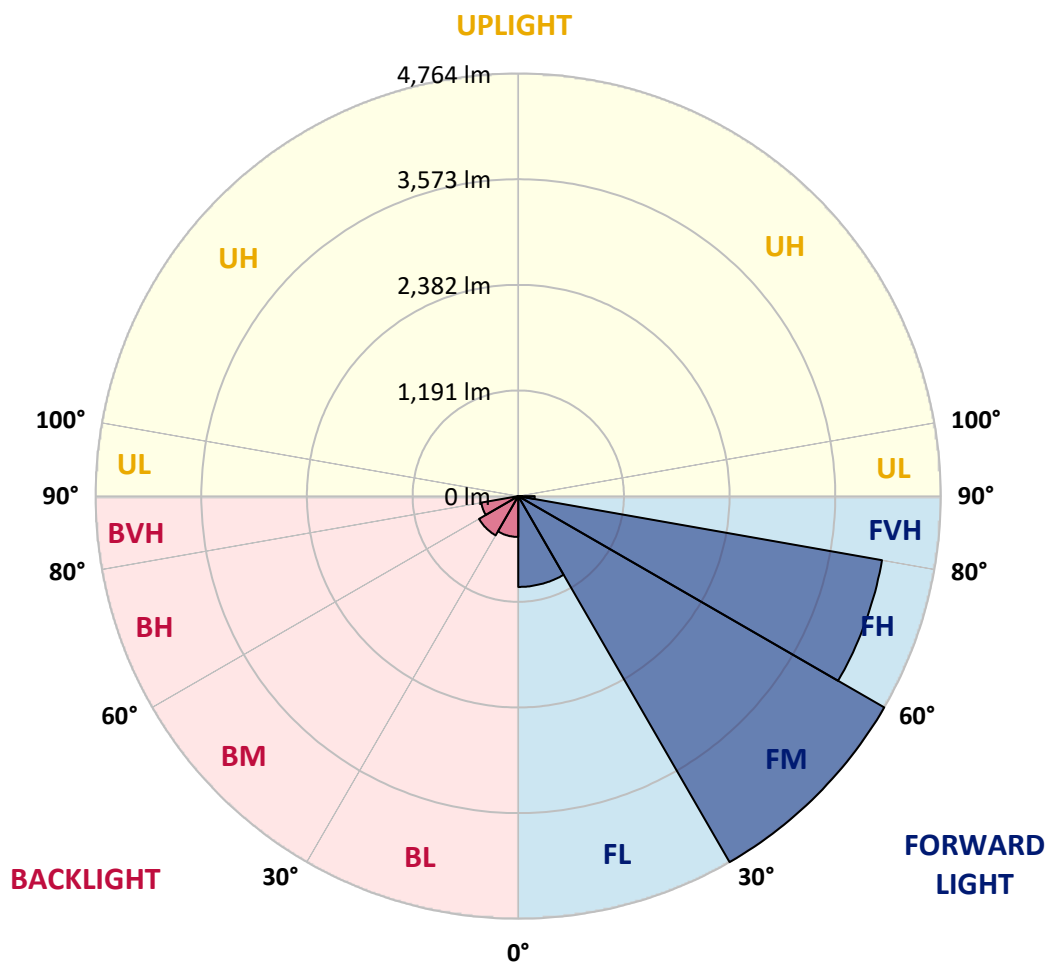
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1023.9	8.9			
FM (30°-60°)	4764.2	41.3			
FH (60°-80°)	4163.9	36.1			G2/5000
FVH (80°-90°)	186.5	1.6			G2/225
BL (0°-30°)	460.2	4.0	B1/500		
BM (30°-60°)	510.7	4.4	B1/1000		
BH (60°-80°)	423.5	3.7	B1/500		G1/500
BVH (80°-90°)	5.3	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0
2.5°	2801.6	2823.4	2829.6	2851.4	2862.3	2909.0	2935.5	2951.0	2943.3	2960.4	2961.9
5°	2602.4	2590.0	2622.6	2646.0	2695.8	2776.7	2859.2	2923.0	2952.6	2980.6	2976.0
7.5°	2389.2	2382.9	2415.6	2468.5	2513.7	2611.7	2744.0	2901.2	2895.0	2963.5	2983.7
10°	2242.9	2249.1	2260.0	2312.9	2379.8	2479.4	2644.4	2790.7	2823.4	2968.2	3008.6
12.5°	2109.0	2119.9	2140.1	2194.6	2272.4	2375.2	2535.5	2706.7	2756.5	2941.7	3022.6
15°	2065.4	2040.5	2081.0	2121.5	2202.4	2294.2	2429.6	2642.9	2664.7	2910.6	3046.0
17.5°	2029.6	2014.1	2032.7	2065.4	2151.0	2225.7	2353.4	2574.4	2614.9	2898.1	3042.9
20°	2040.5	2026.5	2034.3	2059.2	2098.1	2168.1	2286.4	2509.0	2552.6	2840.5	3038.2
22.5°	2071.6	2082.5	2068.5	2074.8	2087.2	2123.0	2250.6	2462.3	2499.7	2829.6	3064.7
25°	2211.7	2193.1	2174.4	2166.6	2093.4	2109.0	2239.7	2459.2	2485.7	2790.7	3042.9
27.5°	2358.0	2342.5	2334.7	2289.6	2189.9	2143.2	2241.3	2415.6	2451.4	2775.2	3016.4
30°	2535.5	2555.7	2524.6	2470.1	2331.6	2216.4	2258.4	2393.8	2443.6	2716.0	2999.3
32.5°	2722.2	2733.1	2748.7	2708.2	2529.2	2326.9	2309.8	2414.1	2417.2	2716.0	2960.4
35°	2933.9	2918.4	2958.8	2961.9	2804.7	2523.0	2407.8	2428.1	2460.8	2703.6	2946.4
37.5°	3116.0	3142.5	3189.2	3263.9	3102.0	2800.1	2560.4	2493.4	2507.5	2761.2	2957.3
40°	3315.3	3341.7	3447.6	3522.3	3430.4	3111.4	2792.3	2646.0	2656.9	2846.8	3013.3
42.5°	3534.7	3586.1	3712.2	3842.9	3818.0	3506.7	3091.1	2870.1	2865.4	3060.0	3128.5
45°	3832.0	3900.5	4037.5	4188.4	4210.2	3959.6	3489.6	3204.8	3220.3	3338.6	3366.6
47.5°	4246.0	4242.9	4376.8	4544.9	4670.9	4429.7	3965.9	3654.6	3653.0	3779.1	3719.9
50°	4646.0	4647.6	4683.4	4877.9	5204.8	5081.8	4555.8	4252.2	4235.1	4297.4	4202.4
52.5°	4831.3	4809.5	4783.0	5018.0	5615.7	5903.7	5302.9	4929.3	4915.3	4877.9	4853.0
55°	4636.7	4644.5	4642.9	4887.3	5832.1	6770.6	6261.6	5674.9	5651.5	5534.8	5569.0
57.5°	4012.6	3987.7	4042.1	4423.5	5584.6	7362.1	7632.9	6615.0	6554.3	6166.7	6088.9
60°	2986.8	2994.6	3039.8	3489.6	4969.8	7486.6	8945.0	7718.5	7457.0	6611.8	6504.4
62.5°	2085.7	2070.1	2087.2	2339.4	3553.4	6988.5	9832.2	9060.2	8808.0	7117.7	7055.4
65°	1492.6	1472.4	1540.9	1695.0	2133.9	5343.3	9958.2	10847.0	10621.3	7925.5	7776.1
67.5°	1074.0	1070.8	1150.2	1430.4	1516.0	3077.1	9024.4	12465.7	12328.7	8884.3	8215.0
69°	888.7	890.3	966.6	1281.0	1447.5	2101.2	7765.2	12744.3	12719.4	9379.2	8132.5
70°	775.1	781.3	870.1	1192.2	1419.5	1727.7	6694.3	12470.4	12445.5	9475.7	7860.1
72.5°	477.8	482.5	599.2	955.7	1349.5	1410.2	4003.2	10202.6	10288.2	9033.7	6772.2
75°	228.8	230.4	314.4	691.1	1301.2	1337.0	2144.8	7528.6	7709.1	7293.6	5292.0
77.5°	121.4	121.4	151.0	367.3	1053.7	1257.6	1273.2	5310.6	5460.1	4611.8	3008.6
80°	60.7	62.3	91.8	191.4	653.7	1232.7	994.6	3167.4	3248.3	1881.8	937.0
82.5°	23.3	24.9	43.6	115.2	339.3	1041.3	873.2	1558.0	1537.8	440.5	228.8
85°	3.1	3.1	15.6	68.5	144.8	459.2	720.6	650.6	628.8	96.5	110.5
87.5°	0.0	0.0	3.1	20.2	43.6	133.9	278.6	179.0	199.2	26.5	54.5
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°	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0	2909.0
2.5°	2954.2	2921.5	2871.7	2823.4	2772.1	2709.8	2641.3	2616.4	2572.8	2569.7	2594.6
5°	2951.0	2898.1	2811.0	2708.2	2561.9	2451.4	2331.6	2244.4	2177.5	2133.9	2144.8
7.5°	2966.6	2902.8	2751.8	2530.8	2342.5	2123.0	1937.8	1810.2	1693.4	1635.8	1629.6
10°	2941.7	2856.1	2635.1	2325.4	2048.3	1741.7	1470.9	1299.6	1125.3	1061.5	1064.6
12.5°	2955.7	2835.9	2509.0	2113.7	1732.3	1333.9	1010.1	776.7	613.2	560.3	554.1
15°	2965.1	2792.3	2387.6	1860.0	1382.1	909.0	585.2	440.5	389.1	379.8	378.2
17.5°	2929.3	2739.4	2216.4	1609.4	1024.2	552.5	389.1	359.5	350.2	344.0	340.9
20°	2927.7	2708.2	2068.5	1352.6	683.3	376.7	336.2	325.3	311.3	306.6	306.6
22.5°	2901.2	2642.9	1891.1	1070.8	435.8	323.7	302.0	284.8	269.3	263.0	261.5
25°	2893.5	2566.6	1724.6	804.7	331.5	289.5	267.7	242.8	224.1	214.8	210.1
27.5°	2871.7	2501.2	1556.5	566.6	289.5	258.4	230.4	203.9	182.1	168.1	166.5
30°	2793.8	2432.7	1369.7	392.2	263.0	228.8	197.7	166.5	144.8	135.4	132.3
32.5°	2761.2	2368.9	1165.8	302.0	239.7	202.3	166.5	138.5	121.4	112.1	110.5
35°	2722.2	2275.5	968.1	263.0	217.9	175.9	140.1	116.7	102.7	94.9	94.9
37.5°	2726.9	2200.8	782.9	238.1	194.6	151.0	119.8	99.6	87.2	79.4	79.4
40°	2712.9	2141.7	608.6	216.3	172.8	129.2	101.2	84.0	73.2	65.4	63.8
42.5°	2776.7	2126.1	459.2	197.7	151.0	110.5	87.2	71.6	60.7	51.4	51.4
45°	2884.1	2151.0	358.0	180.5	129.2	94.9	74.7	59.1	48.3	42.0	40.5
47.5°	3170.5	2249.1	280.2	166.5	110.5	82.5	62.3	48.3	38.9	32.7	31.1
50°	3586.1	2468.5	238.1	146.3	93.4	70.0	51.4	37.4	31.1	24.9	23.3
52.5°	4177.5	2837.4	216.3	129.2	77.8	57.6	40.5	29.6	23.3	18.7	17.1
55°	4821.9	3298.1	196.1	109.0	65.4	46.7	32.7	23.3	17.1	12.5	10.9
57.5°	5324.7	3696.6	179.0	90.3	52.9	37.4	24.9	17.1	12.5	7.8	6.2
60°	5874.1	3976.8	157.2	71.6	43.6	28.0	18.7	12.5	9.3	4.7	4.7
62.5°	6440.6	4305.2	129.2	56.0	34.2	21.8	14.0	9.3	6.2	1.6	1.6
65°	7228.2	4562.0	99.6	43.6	26.5	15.6	10.9	7.8	3.1	0.0	0.0
67.5°	7450.8	4435.9	73.2	34.2	18.7	10.9	7.8	4.7	1.6	0.0	0.0
69°	7228.2	3995.4	63.8	29.6	15.6	9.3	6.2	3.1	1.6	0.0	0.0
70°	6822.0	3653.0	56.0	24.9	14.0	9.3	4.7	3.1	1.6	0.0	0.0
72.5°	5706.0	2801.6	43.6	18.7	10.9	7.8	4.7	3.1	0.0	0.0	0.0
75°	4185.3	1730.8	32.7	14.0	9.3	6.2	4.7	3.1	0.0	0.0	0.0
77.5°	2242.9	631.9	23.3	9.3	6.2	4.7	4.7	3.1	0.0	0.0	0.0
80°	614.8	186.8	17.1	6.2	4.7	3.1	3.1	1.6	0.0	0.0	0.0
82.5°	168.1	48.3	10.9	6.2	4.7	3.1	1.6	0.0	0.0	0.0	0.0
85°	90.3	18.7	6.2	4.7	3.1	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	46.7	6.2	4.7	3.1	3.1	1.6	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)