

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: P479990

Luminaire Tested: **IFLD-S-SA3B-727-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479990
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-727-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

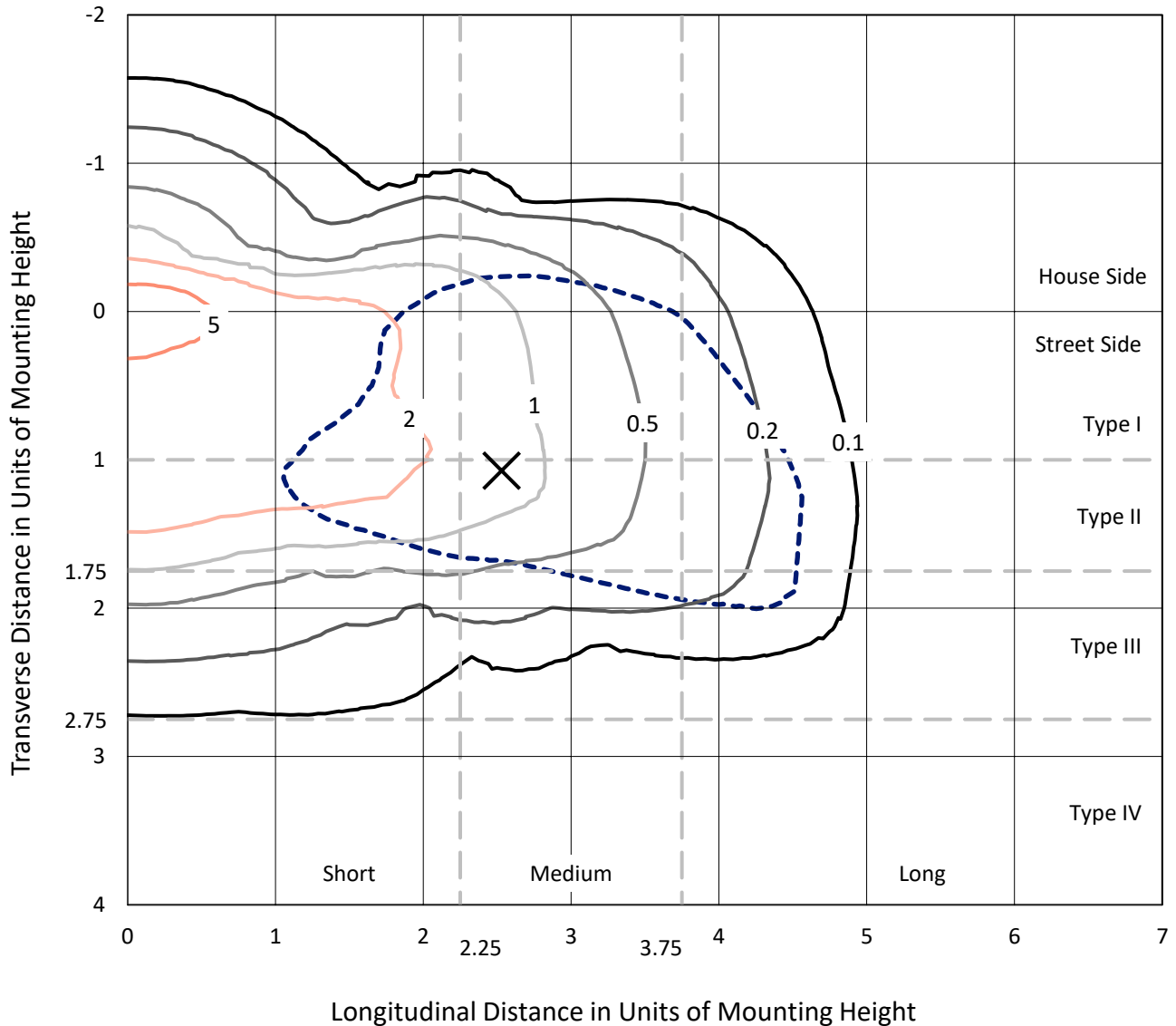
Lumens per Lamp: N/A
Luminaire Lumens: 14188.5 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 122.4
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

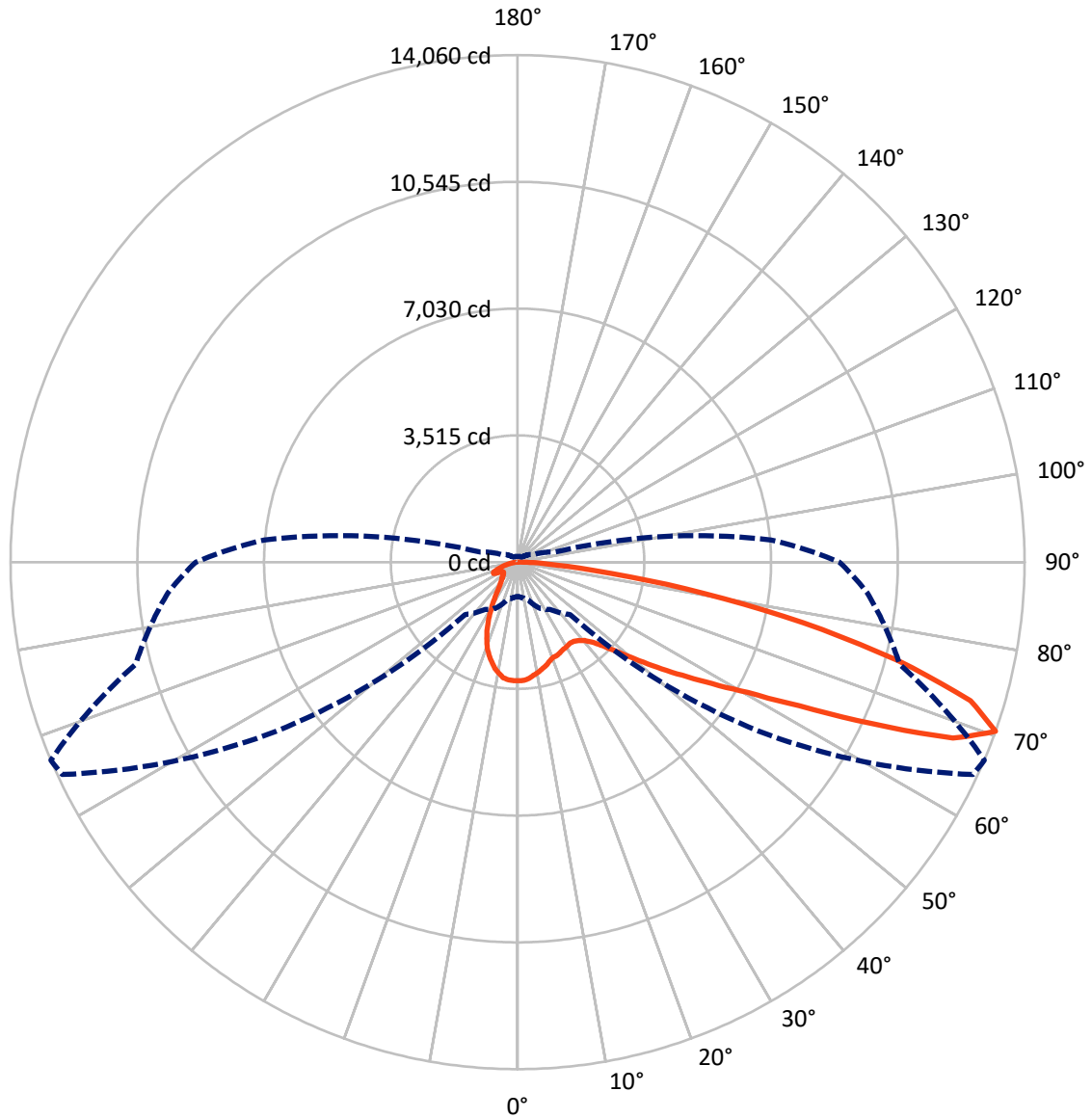
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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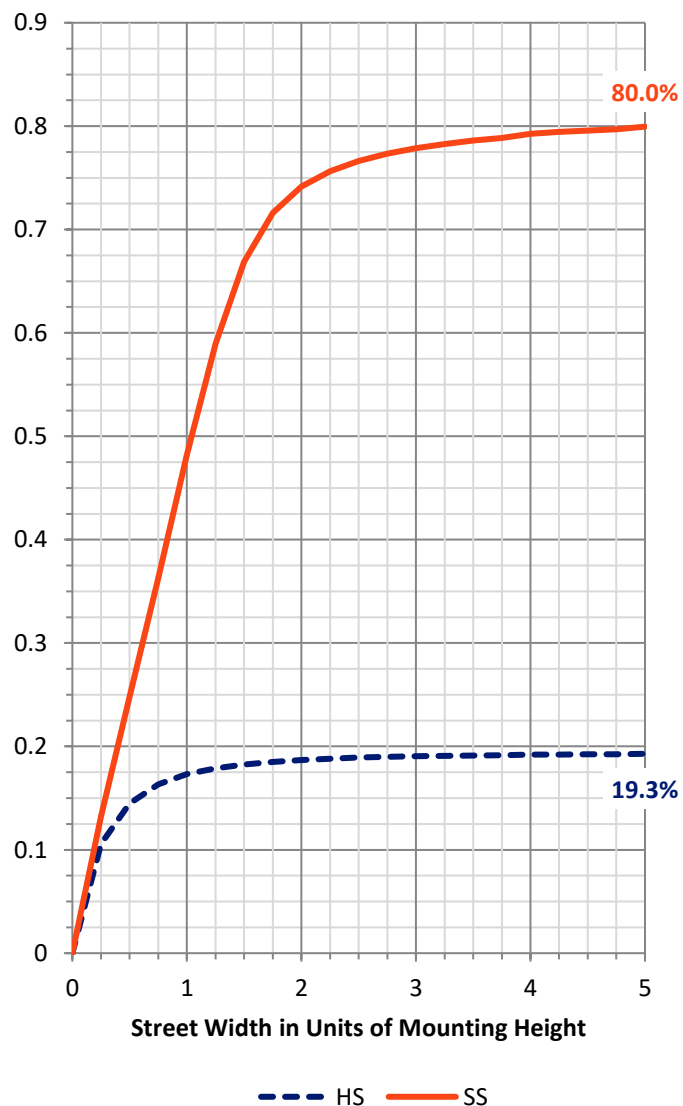
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2763.3	0.0	2763.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	11425.2	0.0	11425.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	14188.5	0.0	14188.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.6	2.0
10°-20°	686.4	4.8
20°-30°	926.9	6.5
30°-40°	1240.3	8.7
40°-50°	1823.8	12.9
50°-60°	2842.8	20.0
60°-70°	3501.9	24.7
70°-80°	2474.4	17.4
80°-90°	405.6	2.9
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°	14188.5	100.0
0°-180°	14188.5	100.0

Coefficient of Utilization



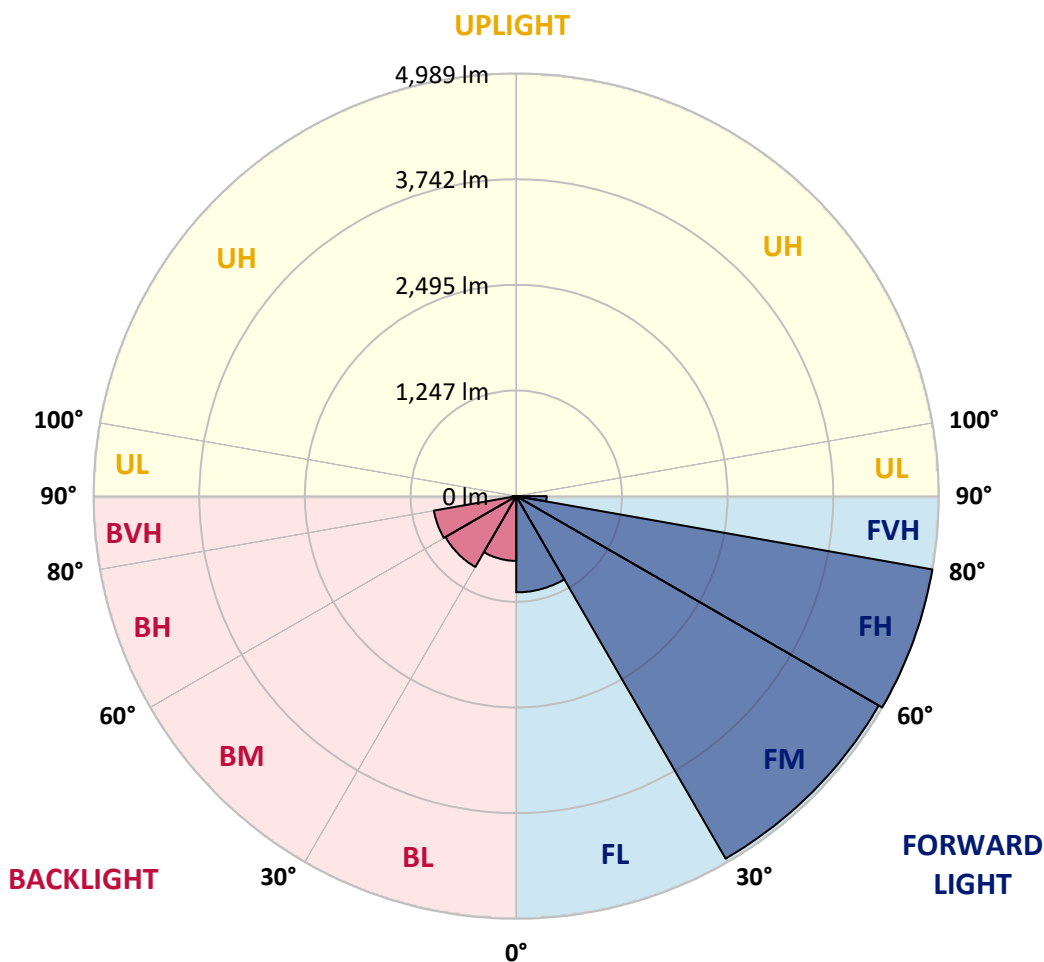
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1135.7	8.0			
FM (30°-60°)	4941.6	34.8			
FH (60°-80°)	4989.1	35.2			G2/5000
FVH (80°-90°)	358.8	2.5			G3/500
BL (0°-30°)	764.2	5.4	B2/1000		
BM (30°-60°)	965.3	6.8	B1/1000		
BH (60°-80°)	987.1	7.0	B2/1000		G2/1000
BVH (80°-90°)	46.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3284.6	3284.6	3284.6	3284.6	3284.6	3284.6	3284.6	3284.6	3284.6	3284.6	3284.6
2.5°	3058.4	3093.0	3105.5	3124.4	3173.1	3209.2	3231.2	3256.3	3286.2	3311.3	3327.0
5°	2844.8	2863.6	2893.5	2913.9	2975.1	3072.5	3138.5	3245.3	3242.2	3281.5	3341.1
7.5°	2637.4	2656.3	2670.4	2711.2	2799.2	2887.2	3008.1	3180.9	3168.4	3259.5	3352.1
10°	2508.6	2494.5	2499.2	2568.3	2637.4	2736.4	2888.7	3064.7	3110.2	3251.6	3383.6
12.5°	2387.7	2371.9	2409.6	2453.6	2538.5	2628.0	2810.2	2968.9	3038.0	3223.3	3397.7
15°	2312.3	2301.3	2348.4	2367.2	2467.8	2574.6	2703.4	2896.6	2972.0	3188.8	3375.7
17.5°	2269.8	2279.3	2296.5	2337.4	2401.8	2492.9	2634.3	2847.9	2880.9	3146.4	3371.0
20°	2277.7	2288.7	2290.3	2307.5	2351.5	2422.2	2566.7	2796.1	2818.1	3138.5	3383.6
22.5°	2340.5	2324.8	2331.1	2320.1	2332.7	2387.7	2514.9	2727.0	2811.8	3072.5	3356.9
25°	2434.8	2412.8	2409.6	2371.9	2348.4	2364.1	2505.5	2709.7	2764.6	3052.1	3355.3
27.5°	2601.3	2568.3	2568.3	2511.7	2415.9	2390.8	2478.8	2681.4	2730.1	3033.3	3319.2
30°	2761.5	2761.5	2763.1	2683.0	2576.2	2452.1	2489.8	2670.4	2701.8	2976.7	3270.5
32.5°	2956.3	2951.6	2943.7	2904.5	2739.5	2554.2	2543.2	2656.3	2672.0	2957.9	3256.3
35°	3146.4	3133.8	3195.1	3160.5	2992.4	2753.7	2598.1	2662.5	2697.1	2929.6	3212.3
37.5°	3289.3	3297.2	3424.4	3446.4	3301.9	2979.9	2753.7	2725.4	2758.4	2970.4	3212.3
40°	3474.7	3506.1	3625.5	3699.3	3611.3	3278.3	3000.3	2830.6	2854.2	3061.5	3281.5
42.5°	3718.1	3744.8	3897.2	3993.0	3967.9	3658.4	3243.8	3050.5	3031.7	3213.9	3385.1
45°	4040.2	4044.9	4198.8	4330.8	4382.6	4055.9	3630.2	3328.6	3312.9	3476.2	3575.2
47.5°	4423.4	4418.7	4514.5	4655.9	4795.7	4530.3	4074.7	3751.1	3694.6	3851.7	3890.9
50°	4794.2	4773.7	4795.7	4976.4	5245.0	5124.0	4615.1	4267.9	4211.4	4297.8	4365.3
52.5°	4998.4	5023.5	4963.8	5202.6	5722.5	5826.2	5331.4	4885.3	4836.6	4879.0	4996.8
55°	4855.4	4907.3	4868.0	5094.2	5931.4	6682.3	6258.2	5600.0	5537.2	5521.4	5714.7
57.5°	4247.5	4341.8	4349.6	4707.8	5859.2	7345.2	7561.9	6443.5	6349.3	6189.0	6388.5
60°	3261.0	3355.3	3427.5	3851.7	5240.3	7741.0	9073.1	7643.6	7332.6	6917.9	7037.3
62.5°	2285.5	2350.0	2422.2	2683.0	4040.2	7508.5	10380.0	9333.8	8760.5	7686.0	7835.3
65°	1665.1	1715.3	1789.2	1943.1	2481.9	6212.6	10986.3	11341.3	10797.8	8663.1	8644.2
67.5°	1253.5	1284.9	1382.3	1628.9	1720.1	3837.5	10358.0	13462.0	13022.1	9748.5	9294.6
70°	948.8	975.5	1066.6	1404.3	1607.0	2057.8	8171.4	13934.8	14060.4	10965.9	9731.3
72.5°	653.5	683.3	785.4	1170.3	1530.0	1632.1	5128.7	12659.3	13135.2	11467.0	9263.1
75°	400.6	421.0	480.7	887.5	1519.0	1596.0	2822.8	10373.7	10878.0	10595.2	8103.9
77.5°	282.7	281.2	292.2	519.9	1316.4	1605.4	1740.5	7601.2	8091.3	7808.6	5499.5
80°	205.8	207.3	218.3	311.0	893.8	1632.1	1371.3	5091.0	5237.1	4071.6	2169.3
82.5°	124.1	130.4	157.1	210.5	537.2	1473.4	1267.7	2829.1	2646.8	1306.9	596.9
85°	66.0	66.0	92.7	133.5	285.9	1099.6	1220.5	1346.2	1127.9	405.3	221.5
87.5°	15.7	15.7	26.7	53.4	114.7	526.2	832.5	535.7	428.8	136.7	91.1
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°	3284.6	3284.6	3284.6	3284.6	3284.6	3284.6	3284.6	3284.6	3284.6	3284.6	3284.6
2.5°	3320.7	3301.9	3325.4	3278.3	3240.6	3242.2	3184.1	3180.9	3173.1	3132.2	3146.4
5°	3358.4	3342.7	3316.0	3264.2	3180.9	3097.7	3047.4	2983.0	2956.3	2942.2	2948.4
7.5°	3394.6	3366.3	3289.3	3217.0	3088.2	2931.2	2840.0	2753.7	2643.7	2631.1	2609.1
10°	3404.0	3344.3	3245.3	3091.4	2920.2	2745.8	2538.5	2378.2	2293.4	2227.4	2202.3
12.5°	3389.8	3364.7	3174.6	2976.7	2717.5	2444.2	2202.3	1976.1	1819.0	1737.3	1715.3
15°	3388.3	3344.3	3096.1	2802.3	2470.9	2114.3	1770.3	1498.6	1333.6	1266.1	1266.1
17.5°	3389.8	3284.6	3003.4	2626.4	2180.3	1698.1	1319.5	1096.4	1005.3	995.9	1003.8
20°	3358.4	3240.6	2906.0	2419.1	1815.9	1275.5	958.2	867.1	867.1	879.7	884.4
22.5°	3330.1	3174.6	2752.1	2163.0	1445.2	923.6	779.1	752.4	782.3	804.3	813.7
25°	3290.9	3119.7	2595.0	1897.6	1099.6	744.6	677.0	683.3	711.6	750.9	747.7
27.5°	3234.3	3023.8	2408.1	1589.7	818.4	642.5	625.2	628.3	658.2	675.5	672.3
30°	3169.9	2926.4	2235.3	1283.4	648.8	589.1	587.5	595.3	600.1	609.5	607.9
32.5°	3088.2	2797.6	2051.5	997.5	584.3	559.2	552.9	548.2	552.9	551.4	546.6
35°	3030.1	2728.5	1864.6	760.3	548.2	532.5	527.8	519.9	513.7	504.2	502.7
37.5°	3014.4	2659.4	1668.2	620.5	519.9	512.1	496.4	482.2	474.4	469.7	466.5
40°	3005.0	2613.9	1476.6	545.1	496.4	488.5	469.7	450.8	443.0	438.3	439.8
42.5°	3038.0	2588.7	1281.8	507.4	476.0	461.8	441.4	419.4	417.8	414.7	419.4
45°	3154.2	2620.1	1101.1	480.7	455.5	432.0	405.3	394.3	392.7	389.6	392.7
47.5°	3418.1	2698.7	947.2	463.4	433.5	413.1	384.9	369.1	367.6	366.0	366.0
50°	3782.5	2940.6	818.4	443.0	419.4	391.1	364.4	347.2	344.0	337.7	337.7
52.5°	4354.3	3347.4	741.4	432.0	394.3	370.7	342.4	323.6	315.7	309.5	309.5
55°	4998.4	3851.7	727.3	413.1	367.6	345.6	320.4	301.6	293.7	285.9	282.7
57.5°	5731.9	4519.3	827.8	400.6	348.7	320.4	292.2	274.9	268.6	260.8	257.6
60°	6415.2	5185.3	1140.4	381.7	331.4	296.9	268.6	251.3	243.5	235.6	235.6
62.5°	7205.4	6010.0	1669.8	381.7	315.7	271.8	243.5	230.9	226.2	218.3	216.8
65°	8140.0	6862.9	2056.2	405.3	311.0	249.8	219.9	207.3	202.6	197.9	196.4
67.5°	8851.6	7353.0	1768.7	468.1	331.4	230.9	196.4	188.5	185.4	180.6	177.5
70°	8927.0	7054.6	1066.6	505.8	351.9	212.1	175.9	168.1	168.1	163.4	160.2
72.5°	8250.0	6259.7	717.9	450.8	318.9	190.1	155.5	149.2	146.1	142.9	141.4
75°	6903.8	5309.4	567.1	359.7	245.0	157.1	135.1	128.8	124.1	122.5	119.4
77.5°	4637.1	3451.1	419.4	281.2	180.6	127.2	113.1	106.8	102.1	100.5	95.8
80°	1781.3	1314.8	270.2	204.2	127.2	100.5	89.5	83.3	80.1	75.4	72.3
82.5°	524.7	425.7	150.8	125.7	81.7	69.1	64.4	59.7	55.0	50.3	48.7
85°	216.8	194.8	92.7	66.0	50.3	40.8	37.7	33.0	28.3	25.1	22.0
87.5°	100.5	83.3	42.4	25.1	17.3	9.4	4.7	1.6	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)