

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: P480026

Luminaire Tested: **IFLD-S-SA2D-730-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480026
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-730-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

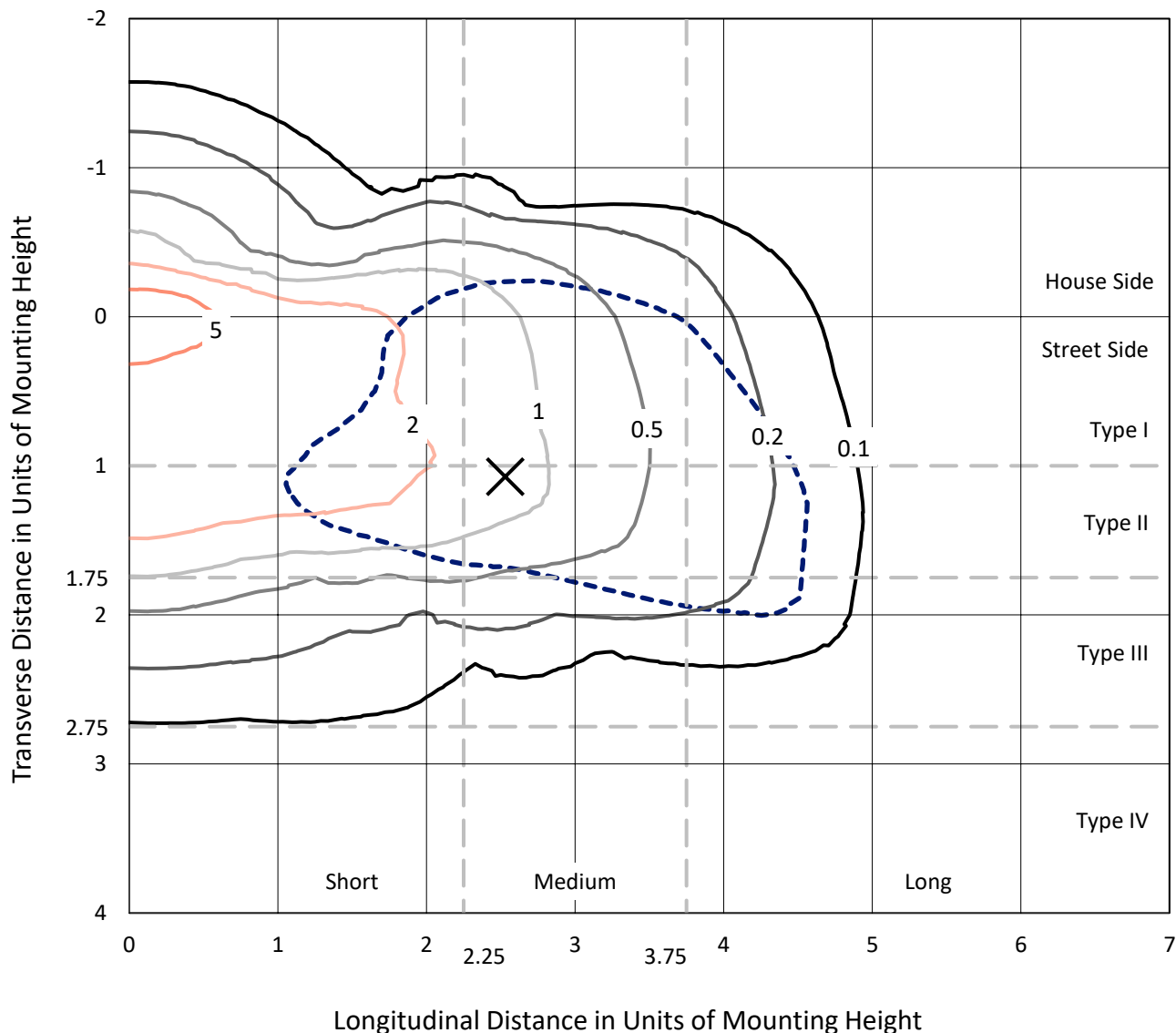
Lumens per Lamp: N/A
Luminaire Lumens: 14199.4 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 123.9
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

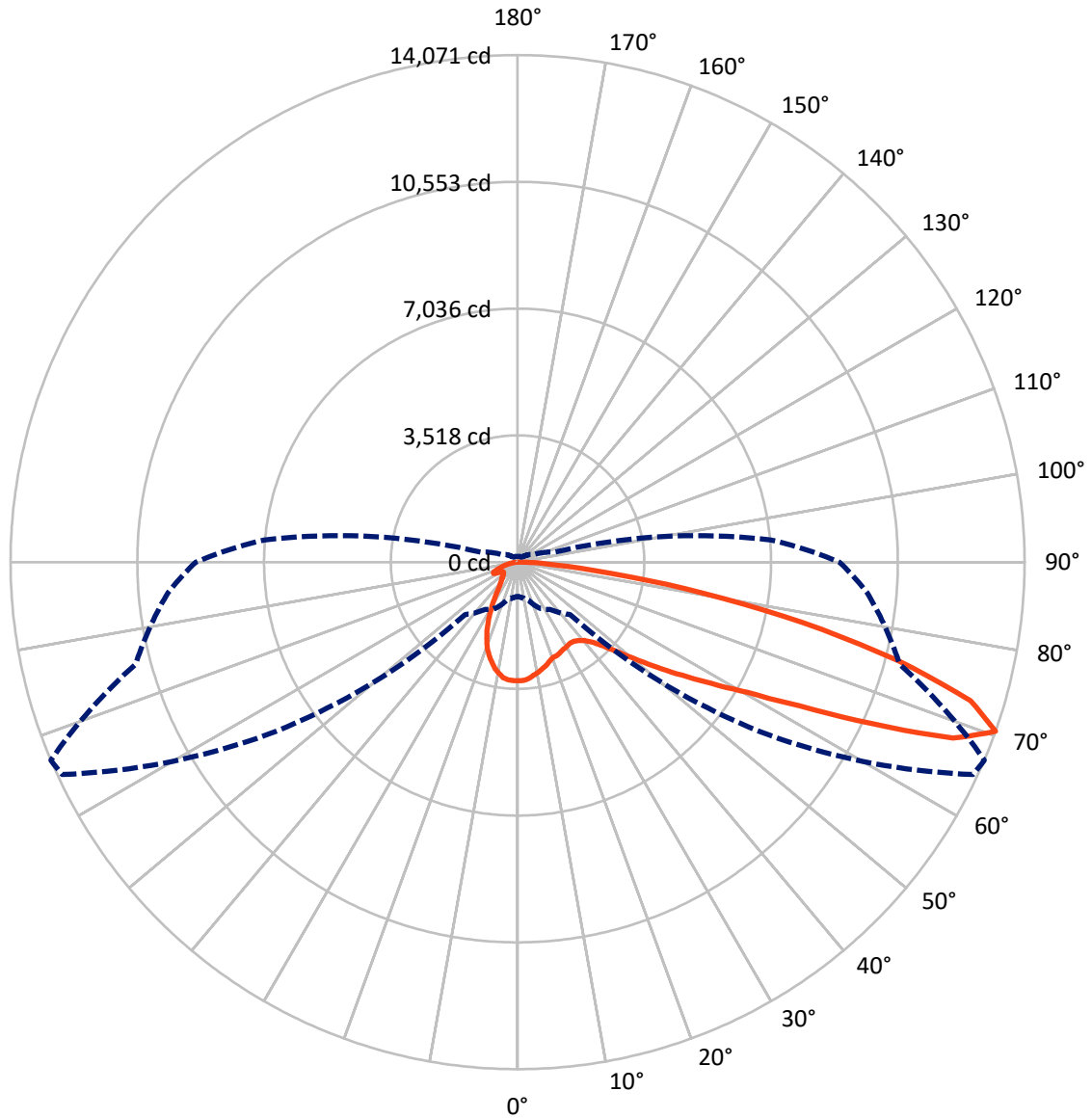
× Max cd
 - - - 1/2 Max cd



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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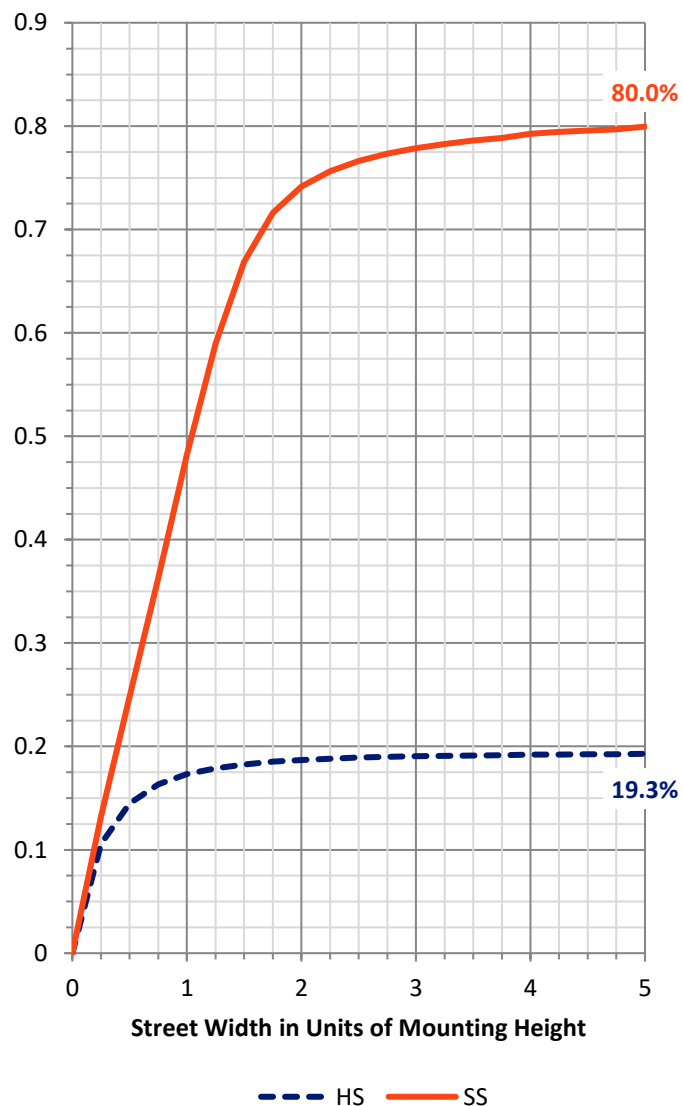
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2765.5	0.0	2765.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	11434.0	0.0	11434.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	14199.4	0.0	14199.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.8	2.0
10°-20°	686.9	4.8
20°-30°	927.6	6.5
30°-40°	1241.2	8.7
40°-50°	1825.2	12.9
50°-60°	2845.0	20.0
60°-70°	3504.6	24.7
70°-80°	2476.3	17.4
80°-90°	405.9	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°	14199.4	100.0
0°-180°	14199.4	100.0

Coefficient of Utilization



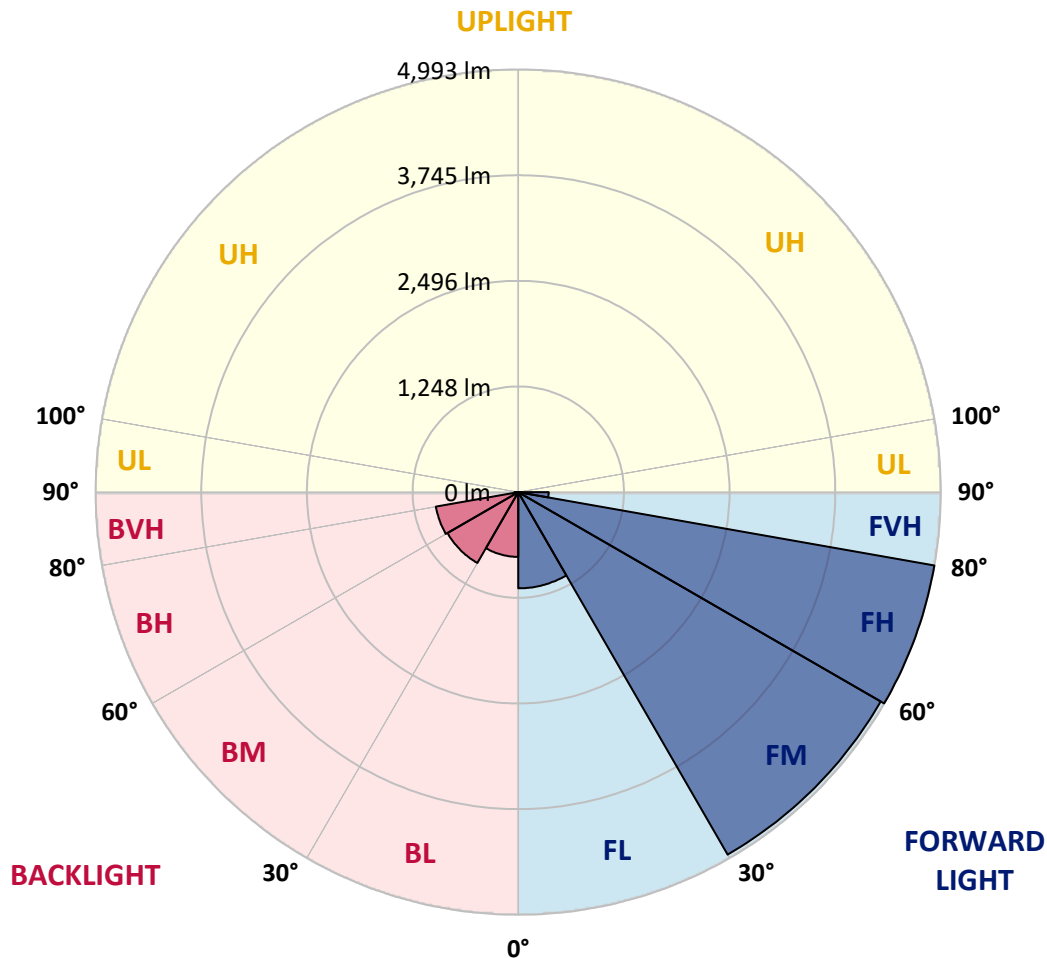
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1136.6	8.0			
FM (30°-60°)	4945.4	34.8			
FH (60°-80°)	4993.0	35.2			G2/5000
FVH (80°-90°)	359.1	2.5			G3/500
BL (0°-30°)	764.7	5.4	B2/1000		
BM (30°-60°)	966.0	6.8	B1/1000		
BH (60°-80°)	987.9	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°	3287.1	3287.1	3287.1	3287.1	3287.1	3287.1	3287.1	3287.1	3287.1	3287.1	3287.1
2.5°	3060.8	3095.3	3107.9	3126.8	3175.5	3211.7	3233.7	3258.8	3288.7	3313.9	3329.6
5°	2847.0	2865.8	2895.7	2916.1	2977.4	3074.9	3140.9	3247.8	3244.7	3284.0	3343.7
7.5°	2639.4	2658.3	2672.5	2713.3	2801.4	2889.4	3010.4	3183.4	3170.8	3262.0	3354.7
10°	2510.5	2496.4	2501.1	2570.3	2639.4	2738.5	2891.0	3067.0	3112.6	3254.1	3386.2
12.5°	2389.5	2373.8	2411.5	2455.5	2540.4	2630.0	2812.4	2971.1	3040.3	3225.8	3400.3
15°	2314.0	2303.0	2350.2	2369.1	2469.7	2576.6	2705.5	2898.8	2974.3	3191.2	3378.3
17.5°	2271.6	2281.0	2298.3	2339.2	2403.6	2494.8	2636.3	2850.1	2883.1	3148.8	3373.6
20°	2279.5	2290.5	2292.0	2309.3	2353.3	2424.1	2568.7	2798.2	2820.2	3140.9	3386.2
22.5°	2342.3	2326.6	2332.9	2321.9	2334.5	2389.5	2516.8	2729.1	2813.9	3074.9	3359.4
25°	2436.7	2414.6	2411.5	2373.8	2350.2	2365.9	2507.4	2711.8	2766.8	3054.5	3357.9
27.5°	2603.3	2570.3	2570.3	2513.7	2417.8	2392.6	2480.7	2683.5	2732.2	3035.6	3321.7
30°	2763.6	2763.6	2765.2	2685.0	2578.1	2453.9	2491.7	2672.5	2703.9	2979.0	3273.0
32.5°	2958.6	2953.9	2946.0	2906.7	2741.6	2556.1	2545.1	2658.3	2674.0	2960.1	3258.8
35°	3148.8	3136.2	3197.5	3162.9	2994.7	2755.8	2600.1	2664.6	2699.2	2931.8	3214.8
37.5°	3291.8	3299.7	3427.0	3449.0	3304.4	2982.2	2755.8	2727.5	2760.5	2972.7	3214.8
40°	3477.3	3508.8	3628.3	3702.1	3614.1	3280.8	3002.6	2832.8	2856.4	3063.9	3284.0
42.5°	3721.0	3747.7	3900.2	3996.1	3971.0	3661.3	3246.3	3052.9	3034.0	3216.4	3387.7
45°	4043.3	4048.0	4202.1	4334.1	4386.0	4059.0	3633.0	3331.1	3315.4	3478.9	3578.0
47.5°	4426.9	4422.1	4518.0	4659.5	4799.4	4533.8	4077.9	3754.0	3697.4	3854.6	3893.9
50°	4797.9	4777.4	4799.4	4980.2	5249.0	5128.0	4618.6	4271.2	4214.6	4301.1	4368.7
52.5°	5002.2	5027.4	4967.6	5206.6	5726.9	5830.7	5335.5	4889.0	4840.3	4882.7	5000.6
55°	4859.2	4911.0	4871.7	5098.1	5936.0	6687.4	6263.0	5604.3	5541.4	5525.7	5719.1
57.5°	4250.8	4345.1	4353.0	4711.4	5863.7	7350.8	7567.8	6448.5	6354.2	6193.8	6393.5
60°	3263.5	3357.9	3430.2	3854.6	5244.3	7747.0	9080.1	7649.5	7338.3	6923.2	7042.7
62.5°	2287.3	2351.8	2424.1	2685.0	4043.3	7514.3	10388.0	9341.0	8767.2	7692.0	7841.3
65°	1666.4	1716.7	1790.5	1944.6	2483.8	6217.4	10994.8	11350.1	10806.2	8669.8	8650.9
67.5°	1254.5	1285.9	1383.4	1630.2	1721.4	3840.5	10366.0	13472.4	13032.2	9756.1	9301.7
70°	949.5	976.2	1067.4	1405.4	1608.2	2059.4	8177.7	13945.5	14071.3	10974.4	9738.8
72.5°	654.0	683.8	786.0	1171.2	1531.2	1633.3	5132.7	12669.0	13145.4	11475.9	9270.3
75°	400.9	421.3	481.0	888.2	1520.2	1597.2	2824.9	10381.7	10886.4	10603.4	8110.1
77.5°	283.0	281.4	292.4	520.3	1317.4	1606.6	1741.8	7607.1	8097.6	7814.6	5503.7
80°	205.9	207.5	218.5	311.3	894.5	1633.3	1372.4	5095.0	5241.2	4074.7	2171.0
82.5°	124.2	130.5	157.2	210.7	537.6	1474.6	1268.6	2831.2	2648.9	1307.9	597.4
85°	66.0	66.0	92.8	133.6	286.1	1100.4	1221.5	1347.2	1128.7	405.6	221.7
87.5°	15.7	15.7	26.7	53.4	114.8	526.6	833.2	536.1	429.2	136.8	91.2
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°	3287.1	3287.1	3287.1	3287.1	3287.1	3287.1	3287.1	3287.1	3287.1	3287.1	3287.1
2.5°	3323.3	3304.4	3328.0	3280.8	3243.1	3244.7	3186.5	3183.4	3175.5	3134.6	3148.8
5°	3361.0	3345.3	3318.6	3266.7	3183.4	3100.1	3049.8	2985.3	2958.6	2944.4	2950.7
7.5°	3397.2	3368.9	3291.8	3219.5	3090.6	2933.4	2842.2	2755.8	2645.7	2633.2	2611.2
10°	3406.6	3346.9	3247.8	3093.8	2922.4	2747.9	2540.4	2380.1	2295.2	2229.1	2204.0
12.5°	3392.5	3367.3	3177.1	2979.0	2719.6	2446.1	2204.0	1977.6	1820.4	1738.7	1716.7
15°	3390.9	3346.9	3098.5	2804.5	2472.8	2116.0	1771.7	1499.7	1334.7	1267.1	1267.1
17.5°	3392.5	3287.1	3005.7	2628.4	2182.0	1699.4	1320.5	1097.3	1006.1	996.7	1004.5
20°	3361.0	3243.1	2908.3	2420.9	1817.3	1276.5	958.9	867.8	867.8	880.3	885.1
22.5°	3332.7	3177.1	2754.2	2164.7	1446.3	924.4	779.7	753.0	782.9	804.9	814.3
25°	3293.4	3122.1	2597.0	1899.0	1100.4	745.1	677.5	683.8	712.1	751.4	748.3
27.5°	3236.8	3026.2	2409.9	1590.9	819.0	643.0	625.7	628.8	658.7	676.0	672.8
30°	3172.4	2928.7	2237.0	1284.4	649.3	589.5	587.9	595.8	600.5	610.0	608.4
32.5°	3090.6	2799.8	2053.1	998.2	584.8	559.6	553.4	548.6	553.4	551.8	547.1
35°	3032.5	2730.6	1866.0	760.9	548.6	532.9	528.2	520.3	514.1	504.6	503.1
37.5°	3016.7	2661.5	1669.5	621.0	520.3	512.5	496.8	482.6	474.8	470.0	466.9
40°	3007.3	2615.9	1477.7	545.5	496.8	488.9	470.0	451.2	443.3	438.6	440.2
42.5°	3040.3	2590.7	1282.8	507.8	476.3	462.2	441.7	419.7	418.2	415.0	419.7
45°	3156.6	2622.2	1102.0	481.0	455.9	432.3	405.6	394.6	393.0	389.9	393.0
47.5°	3420.8	2700.8	947.9	463.8	433.9	413.4	385.1	369.4	367.9	366.3	366.3
50°	3785.5	2942.9	819.0	443.3	419.7	391.4	364.7	347.4	344.3	338.0	338.0
52.5°	4357.7	3350.0	742.0	432.3	394.6	371.0	342.7	323.8	316.0	309.7	309.7
55°	5002.2	3854.6	727.9	413.4	367.9	345.8	320.7	301.8	294.0	286.1	283.0
57.5°	5736.4	4522.7	828.5	400.9	349.0	320.7	292.4	275.1	268.8	261.0	257.8
60°	6420.2	5189.3	1141.3	382.0	331.7	297.1	268.8	251.5	243.7	235.8	235.8
62.5°	7210.9	6014.6	1671.1	382.0	316.0	272.0	243.7	231.1	226.4	218.5	216.9
65°	8146.3	6868.2	2057.8	405.6	311.3	250.0	220.1	207.5	202.8	198.1	196.5
67.5°	8858.4	7358.7	1770.1	468.5	331.7	231.1	196.5	188.6	185.5	180.8	177.6
70°	8933.9	7060.0	1067.4	506.2	352.1	212.2	176.1	168.2	168.2	163.5	160.3
72.5°	8256.3	6264.6	718.4	451.2	319.1	190.2	155.6	149.3	146.2	143.1	141.5
75°	6909.1	5313.5	567.5	360.0	245.2	157.2	135.2	128.9	124.2	122.6	119.5
77.5°	4640.7	3453.8	419.7	281.4	180.8	127.3	113.2	106.9	102.2	100.6	95.9
80°	1782.7	1315.8	270.4	204.4	127.3	100.6	89.6	83.3	80.2	75.5	72.3
82.5°	525.1	426.0	150.9	125.8	81.7	69.2	64.5	59.7	55.0	50.3	48.7
85°	216.9	194.9	92.8	66.0	50.3	40.9	37.7	33.0	28.3	25.2	22.0
87.5°	100.6	83.3	42.4	25.2	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)