

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: P479949

Luminaire Tested: **IFLD-S-SA2E-722-U-SL2**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479949
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-722-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

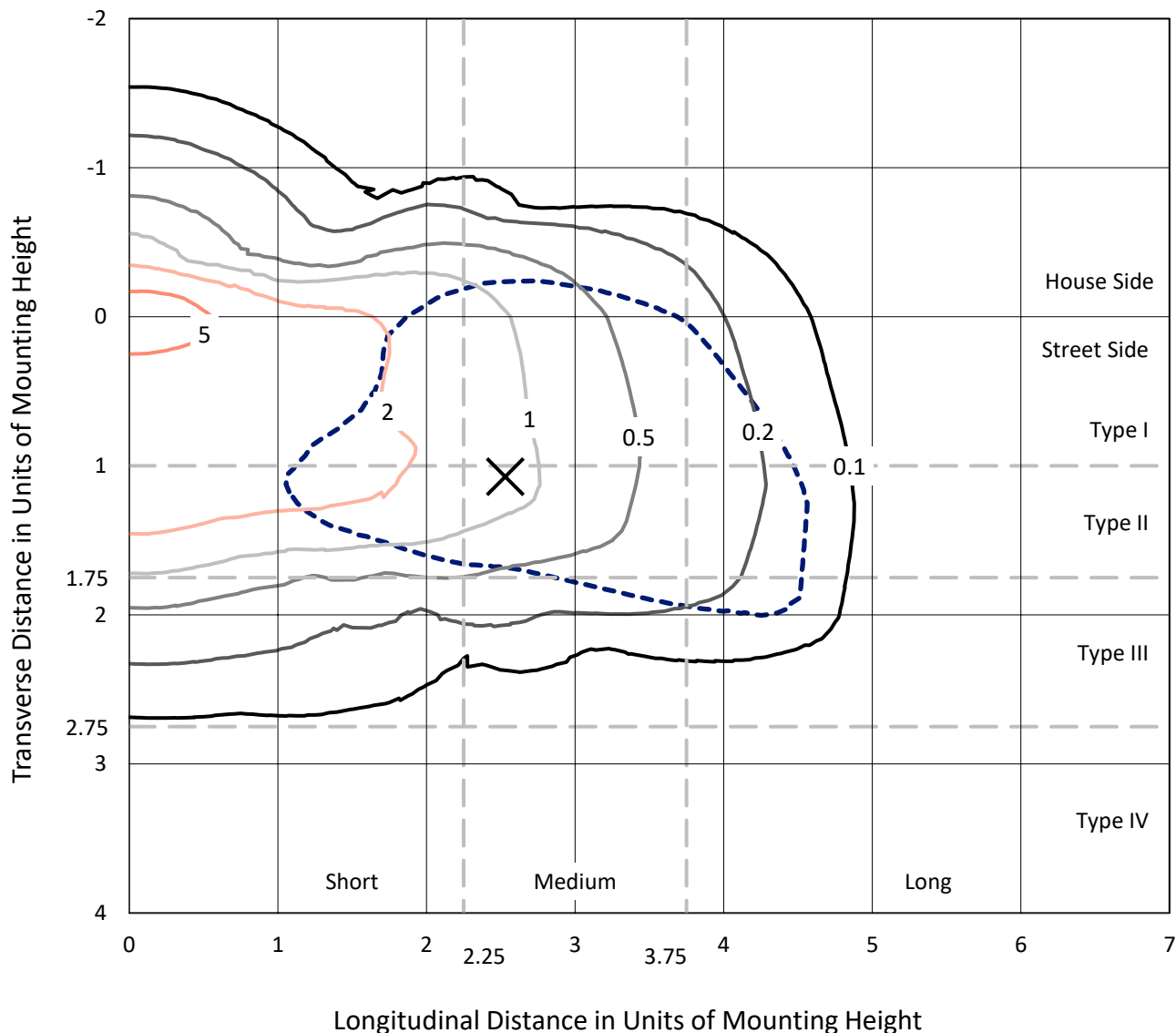
Lumens per Lamp: N/A
Luminaire Lumens: 13292.8 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 156.2
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

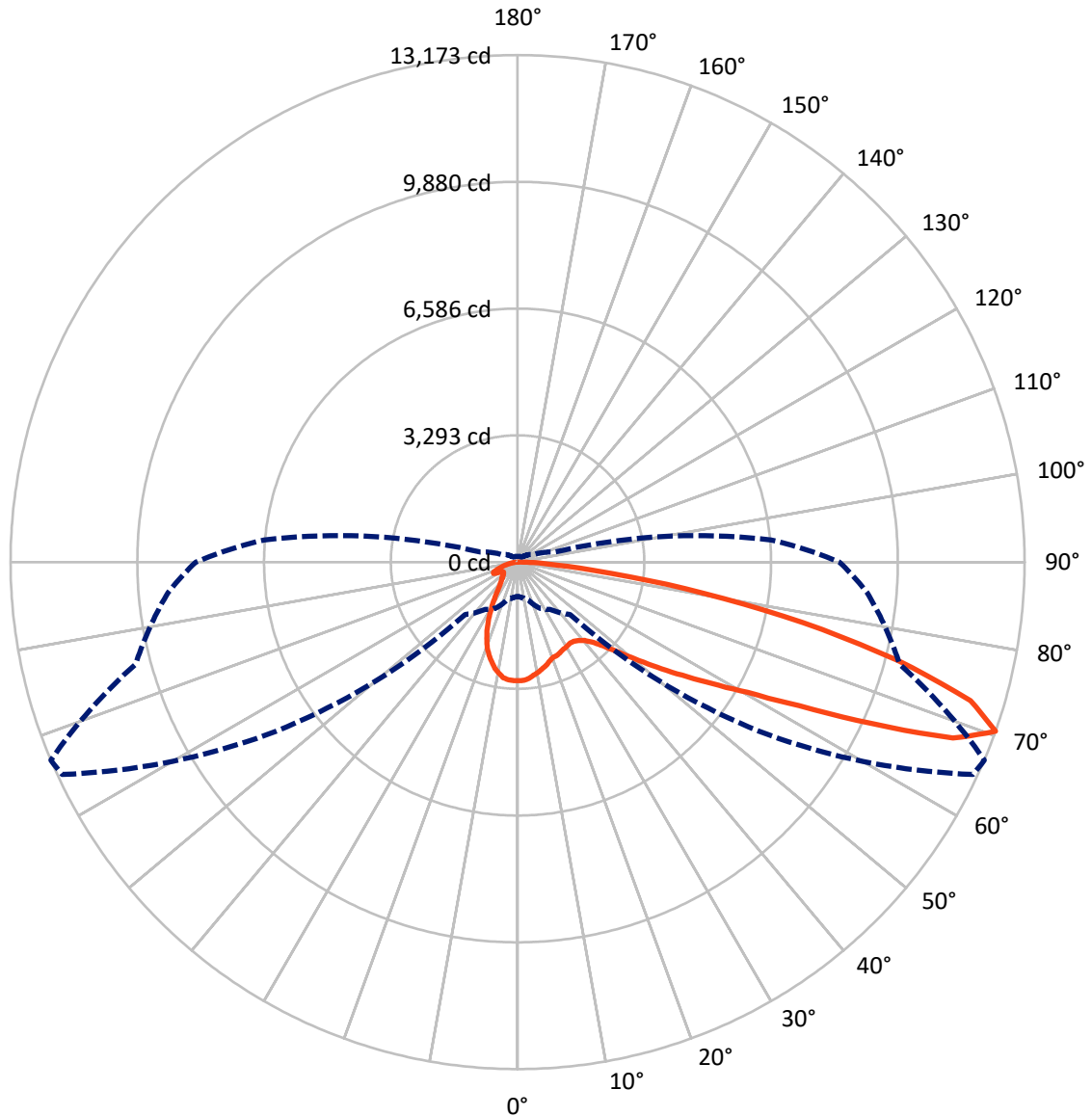
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 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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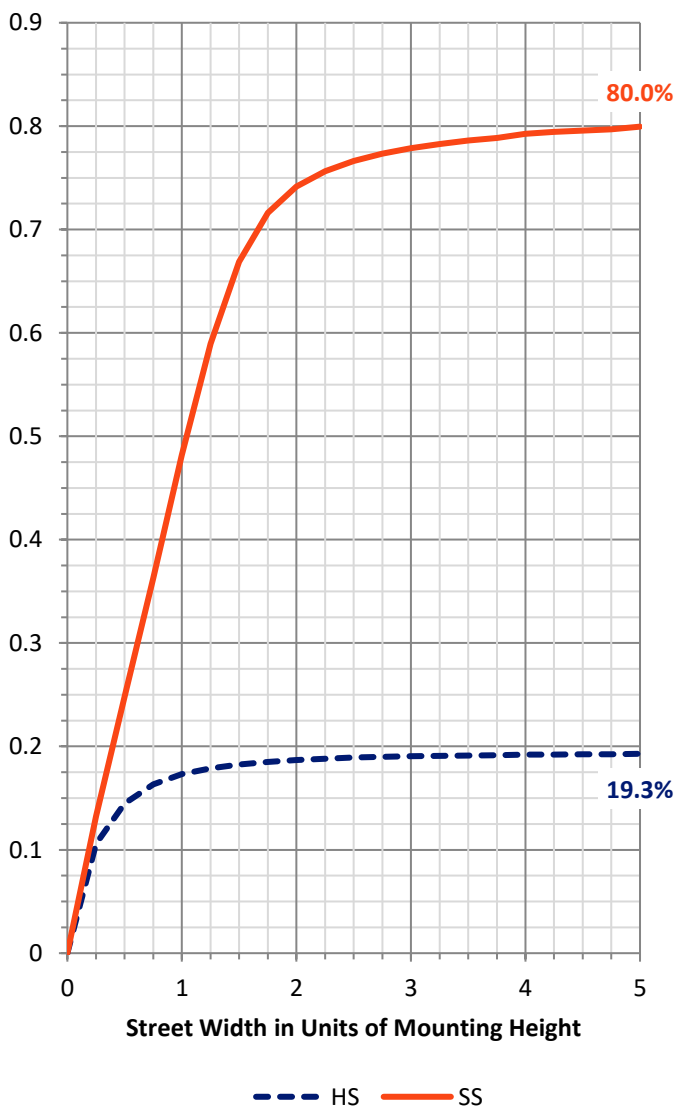
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2588.9	0.0	2588.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	10703.9	0.0	10703.9
	% Fixture	80.5	0.0	80.5
Total	Lumens	13292.8	0.0	13292.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.5	2.0
10°-20°	643.0	4.8
20°-30°	868.4	6.5
30°-40°	1162.0	8.7
40°-50°	1708.6	12.9
50°-60°	2663.3	20.0
60°-70°	3280.8	24.7
70°-80°	2318.2	17.4
80°-90°	380.0	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°	13292.8	100.0
0°-180°	13292.8	100.0

Coefficient of Utilization



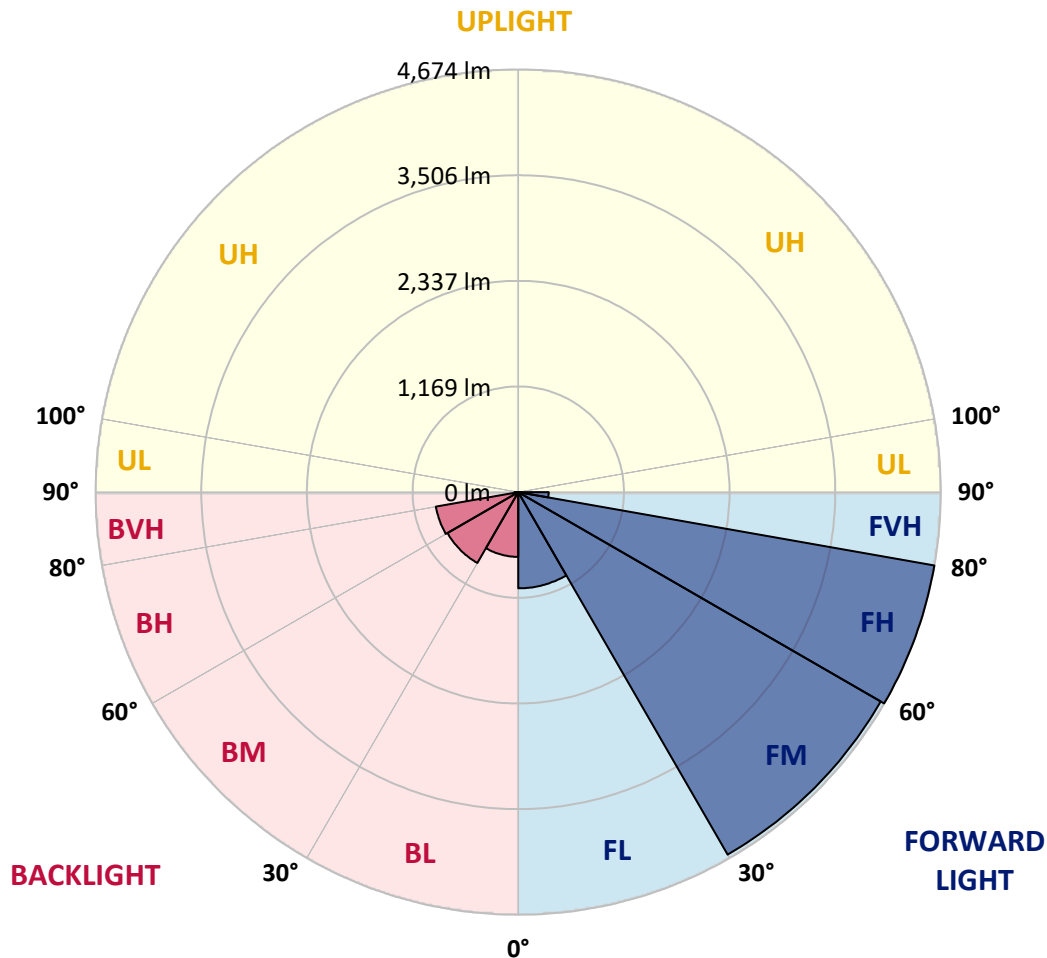
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1064.0	8.0			
FM (30°-60°)	4629.6	34.8			
FH (60°-80°)	4674.2	35.2			G2/5000
FVH (80°-90°)	336.1	2.5			G3/500
BL (0°-30°)	715.9	5.4	B2/1000		
BM (30°-60°)	904.4	6.8	B1/1000		
BH (60°-80°)	924.8	7.0	B2/1000		G2/1000
BVH (80°-90°)	43.8	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°	3077.2	3077.2	3077.2	3077.2	3077.2	3077.2	3077.2	3077.2	3077.2	3077.2	3077.2
2.5°	2865.3	2897.7	2909.5	2927.1	2972.7	3006.6	3027.2	3050.7	3078.7	3102.3	3117.0
5°	2665.2	2682.8	2710.8	2729.9	2787.3	2878.6	2940.4	3040.4	3037.5	3074.3	3130.2
7.5°	2470.9	2488.6	2501.8	2540.1	2622.5	2704.9	2818.2	2980.1	2968.3	3053.7	3140.5
10°	2350.2	2337.0	2341.4	2406.2	2470.9	2563.6	2706.4	2871.2	2913.9	3046.3	3169.9
12.5°	2236.9	2222.2	2257.5	2298.7	2378.2	2462.1	2632.8	2781.4	2846.2	3019.8	3183.2
15°	2166.3	2156.0	2200.1	2217.8	2312.0	2412.0	2532.7	2713.7	2784.4	2987.5	3162.6
17.5°	2126.5	2135.4	2151.6	2189.8	2250.2	2335.5	2468.0	2668.1	2699.0	2947.7	3158.2
20°	2133.9	2144.2	2145.7	2161.9	2203.1	2269.3	2404.7	2619.5	2640.2	2940.4	3169.9
22.5°	2192.8	2178.1	2183.9	2173.6	2185.4	2236.9	2356.1	2554.8	2634.3	2878.6	3144.9
25°	2281.1	2260.5	2257.5	2222.2	2200.1	2214.8	2347.3	2538.6	2590.1	2859.4	3143.5
27.5°	2437.1	2406.2	2406.2	2353.2	2263.4	2239.9	2322.3	2512.1	2557.7	2841.8	3109.6
30°	2587.2	2587.2	2588.6	2513.6	2413.5	2297.3	2332.6	2501.8	2531.2	2788.8	3064.0
32.5°	2769.7	2765.2	2757.9	2721.1	2566.6	2392.9	2382.6	2488.6	2503.3	2771.1	3050.7
35°	2947.7	2936.0	2993.3	2961.0	2803.5	2579.8	2434.1	2494.5	2526.8	2744.6	3009.5
37.5°	3081.6	3089.0	3208.2	3228.8	3093.4	2791.7	2579.8	2553.3	2584.2	2782.9	3009.5
40°	3255.3	3284.7	3396.6	3465.8	3383.3	3071.3	2810.9	2651.9	2674.0	2868.3	3074.3
42.5°	3483.4	3508.4	3651.2	3741.0	3717.4	3427.5	3039.0	2858.0	2840.3	3011.0	3171.4
45°	3785.1	3789.5	3933.7	4057.4	4105.9	3799.8	3401.0	3118.4	3103.7	3256.8	3349.5
47.5°	4144.2	4139.8	4229.5	4362.0	4493.0	4244.3	3817.5	3514.3	3461.3	3608.5	3645.3
50°	4491.5	4472.4	4493.0	4662.2	4913.9	4800.5	4323.7	3998.5	3945.5	4026.5	4089.7
52.5°	4682.8	4706.4	4650.4	4874.1	5361.2	5458.4	4994.8	4576.9	4531.2	4571.0	4681.3
55°	4548.9	4597.5	4560.7	4772.6	5557.0	6260.4	5863.1	5246.5	5187.6	5172.9	5353.9
57.5°	3979.4	4067.7	4075.0	4410.6	5489.3	6881.5	7084.6	6036.7	5948.4	5798.3	5985.2
60°	3055.2	3143.5	3211.2	3608.5	4909.4	7252.3	8500.3	7161.1	6869.7	6481.2	6593.0
62.5°	2141.3	2201.6	2269.3	2513.6	3785.1	7034.5	9724.7	8744.6	8207.4	7200.8	7340.6
65°	1560.0	1607.0	1676.2	1820.4	2325.2	5820.4	10292.8	10625.4	10116.2	8116.2	8098.5
67.5°	1174.4	1203.8	1295.1	1526.1	1611.5	3595.3	9704.1	12612.1	12200.0	9133.1	8707.8
70°	888.9	913.9	999.3	1315.7	1505.5	1927.9	7655.6	13055.1	13172.8	10273.6	9116.9
72.5°	612.2	640.2	735.8	1096.4	1433.4	1529.1	4805.0	11860.1	12306.0	10743.1	8678.4
75°	375.3	394.4	450.3	831.5	1423.1	1495.2	2644.6	9718.8	10191.2	9926.3	7592.3
77.5°	264.9	263.4	273.7	487.1	1233.2	1504.0	1630.6	7121.3	7580.5	7315.6	5152.3
80°	192.8	194.3	204.6	291.4	837.4	1529.1	1284.8	4769.6	4906.5	3814.5	2032.4
82.5°	116.3	122.1	147.2	197.2	503.3	1380.4	1187.6	2650.5	2479.7	1224.4	559.2
85°	61.8	61.8	86.8	125.1	267.8	1030.2	1143.5	1261.2	1056.6	379.7	207.5
87.5°	14.7	14.7	25.0	50.0	107.4	493.0	780.0	501.8	401.8	128.0	85.4
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°	3077.2	3077.2	3077.2	3077.2	3077.2	3077.2	3077.2	3077.2	3077.2	3077.2	3077.2
2.5°	3111.1	3093.4	3115.5	3071.3	3036.0	3037.5	2983.0	2980.1	2972.7	2934.5	2947.7
5°	3146.4	3131.7	3106.7	3058.1	2980.1	2902.1	2855.0	2794.7	2769.7	2756.4	2762.3
7.5°	3180.2	3153.8	3081.6	3014.0	2893.3	2746.1	2660.8	2579.8	2476.8	2465.0	2444.4
10°	3189.1	3133.2	3040.4	2896.2	2735.8	2572.5	2378.2	2228.1	2148.6	2086.8	2063.3
12.5°	3175.8	3152.3	2974.2	2788.8	2546.0	2289.9	2063.3	1851.3	1704.2	1627.7	1607.0
15°	3174.4	3133.2	2900.6	2625.4	2314.9	1980.8	1658.6	1404.0	1249.4	1186.2	1186.2
17.5°	3175.8	3077.2	2813.8	2460.6	2042.7	1590.9	1236.2	1027.2	941.9	933.0	940.4
20°	3146.4	3036.0	2722.6	2266.4	1701.2	1195.0	897.7	812.4	812.4	824.1	828.5
22.5°	3119.9	2974.2	2578.3	2026.5	1353.9	865.3	729.9	704.9	732.9	753.5	762.3
25°	3083.1	2922.7	2431.2	1777.8	1030.2	697.6	634.3	640.2	666.7	703.5	700.5
27.5°	3030.1	2832.9	2256.0	1489.3	766.7	601.9	585.7	588.7	616.6	632.8	629.9
30°	2969.8	2741.7	2094.2	1202.3	607.8	551.9	550.4	557.8	562.2	571.0	569.5
32.5°	2893.3	2621.0	1922.0	934.5	547.5	523.9	518.0	513.6	518.0	516.6	512.1
35°	2838.8	2556.3	1746.9	712.3	513.6	498.9	494.5	487.1	481.2	472.4	470.9
37.5°	2824.1	2491.5	1562.9	581.3	487.1	479.8	465.0	451.8	444.4	440.0	437.1
40°	2815.3	2448.8	1383.4	510.7	465.0	457.7	440.0	422.4	415.0	410.6	412.1
42.5°	2846.2	2425.3	1200.9	475.3	445.9	432.7	413.5	392.9	391.5	388.5	392.9
45°	2955.1	2454.7	1031.6	450.3	426.8	404.7	379.7	369.4	367.9	365.0	367.9
47.5°	3202.3	2528.3	887.4	434.1	406.2	387.0	360.6	345.8	344.4	342.9	342.9
50°	3543.7	2754.9	766.7	415.0	392.9	366.4	341.4	325.2	322.3	316.4	316.4
52.5°	4079.4	3136.1	694.6	404.7	369.4	347.3	320.8	303.2	295.8	289.9	289.9
55°	4682.8	3608.5	681.4	387.0	344.4	323.8	300.2	282.6	275.2	267.8	264.9
57.5°	5370.1	4234.0	775.6	375.3	326.7	300.2	273.7	257.5	251.7	244.3	241.4
60°	6010.2	4857.9	1068.4	357.6	310.5	278.1	251.7	235.5	228.1	220.7	220.7
62.5°	6750.5	5630.6	1564.4	357.6	295.8	254.6	228.1	216.3	211.9	204.6	203.1
65°	7626.1	6429.7	1926.4	379.7	291.4	234.0	206.0	194.3	189.8	185.4	184.0
67.5°	8292.8	6888.8	1657.1	438.6	310.5	216.3	184.0	176.6	173.7	169.2	166.3
70°	8363.4	6609.2	999.3	473.9	329.7	198.7	164.8	157.5	157.5	153.1	150.1
72.5°	7729.1	5864.6	672.5	422.4	298.7	178.1	145.7	139.8	136.9	133.9	132.4
75°	6467.9	4974.2	531.3	337.0	229.6	147.2	126.6	120.7	116.3	114.8	111.8
77.5°	4344.3	3233.2	392.9	263.4	169.2	119.2	106.0	100.1	95.7	94.2	89.8
80°	1668.9	1231.8	253.1	191.3	119.2	94.2	83.9	78.0	75.1	70.6	67.7
82.5°	491.5	398.8	141.3	117.7	76.5	64.8	60.3	55.9	51.5	47.1	45.6
85°	203.1	182.5	86.8	61.8	47.1	38.3	35.3	30.9	26.5	23.5	20.6
87.5°	94.2	78.0	39.7	23.5	16.2	8.8	4.4	1.5	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)