

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: P480376

Luminaire Tested: **IFLD-S-SA2C-727-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480376
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-727-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

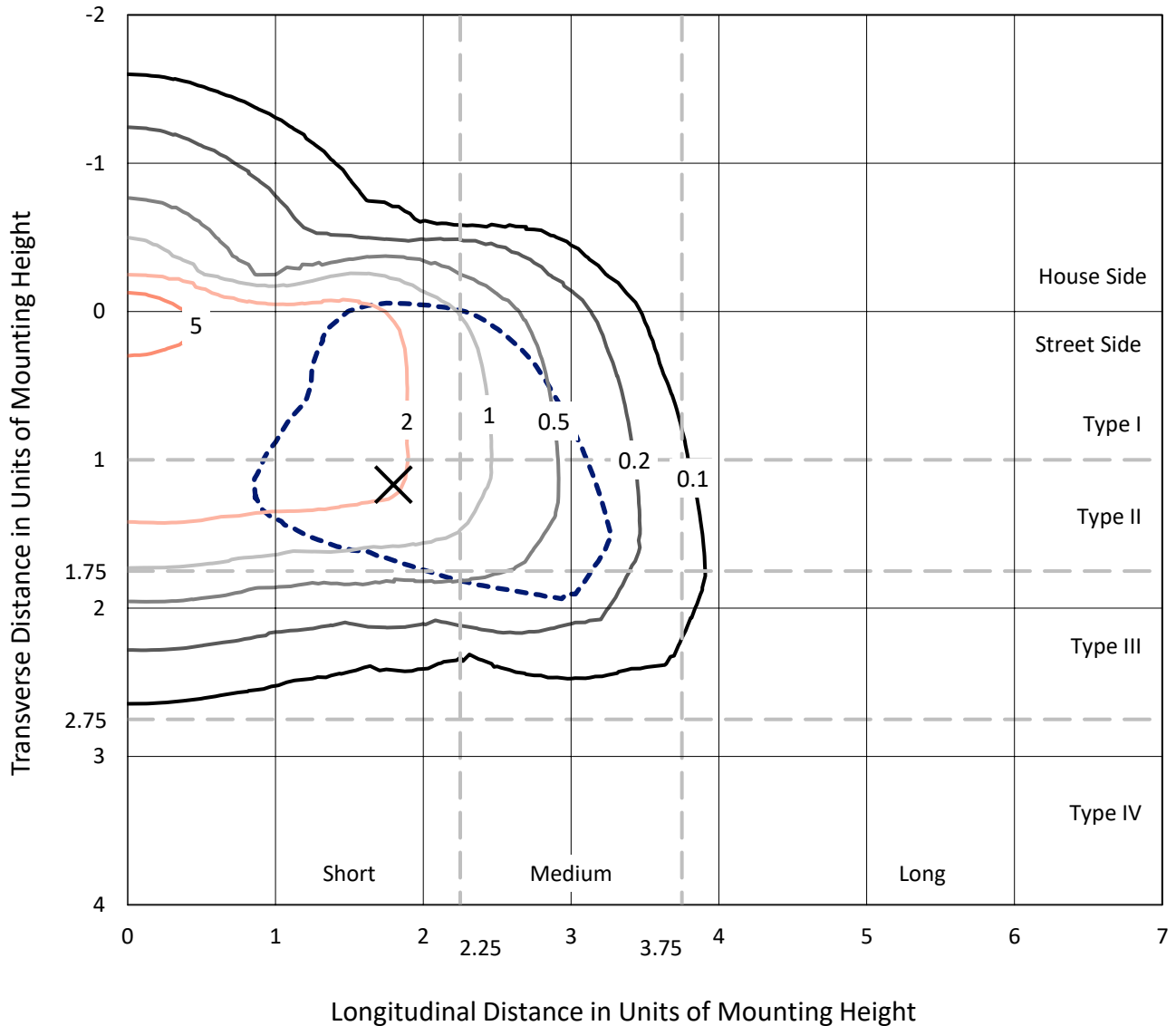
Lumens per Lamp: N/A
Luminaire Lumens: 11728.9 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

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

REPORT NUMBER: P480376
 CATALOG NUMBER: IFLD-S-SA2C-727-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

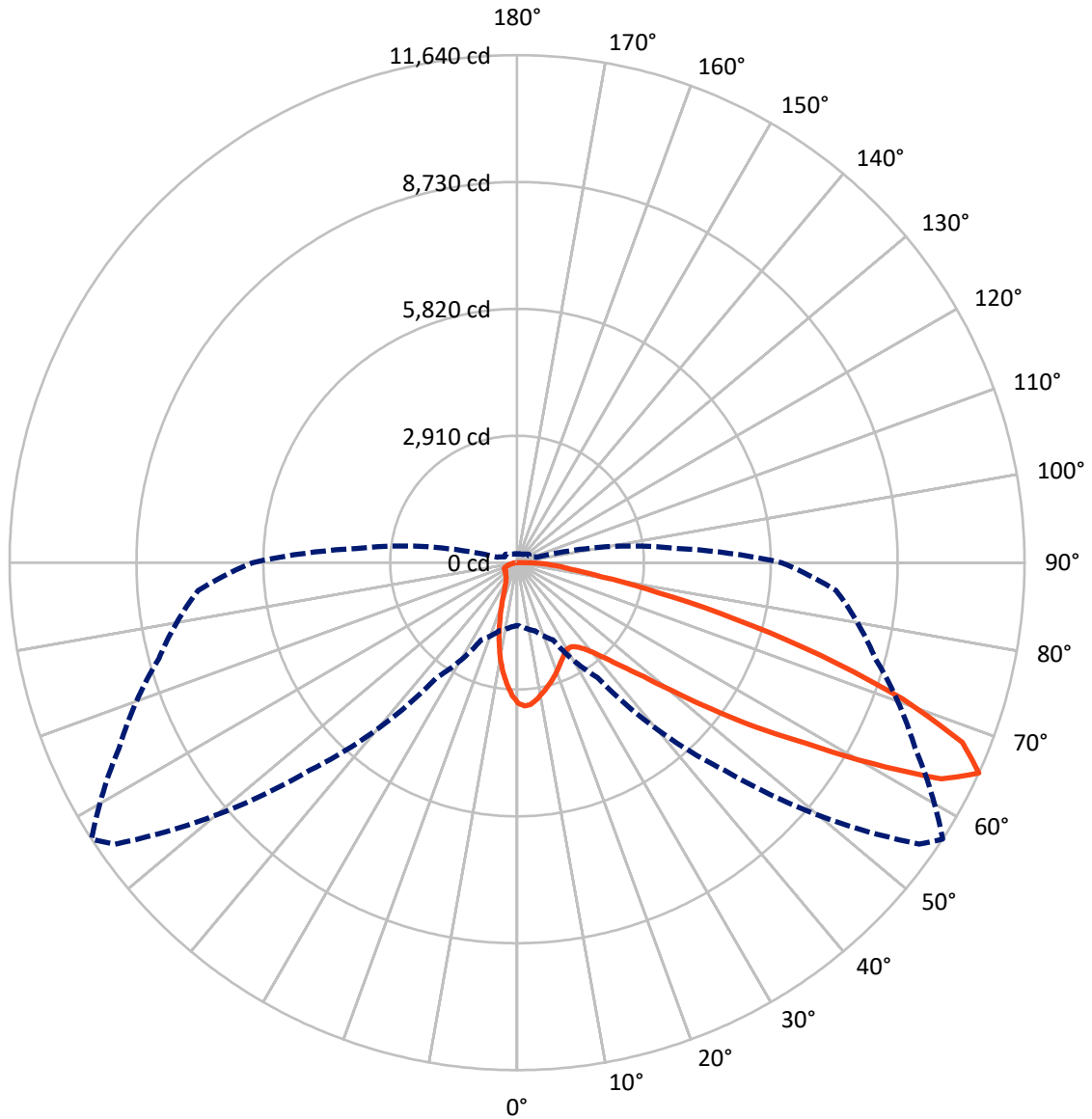
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - N/A

REPORT NUMBER: P480376
CATALOG NUMBER: IFLD-S-SA2C-727-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P480376
 CATALOG NUMBER: IFLD-S-SA2C-727-U-SL3

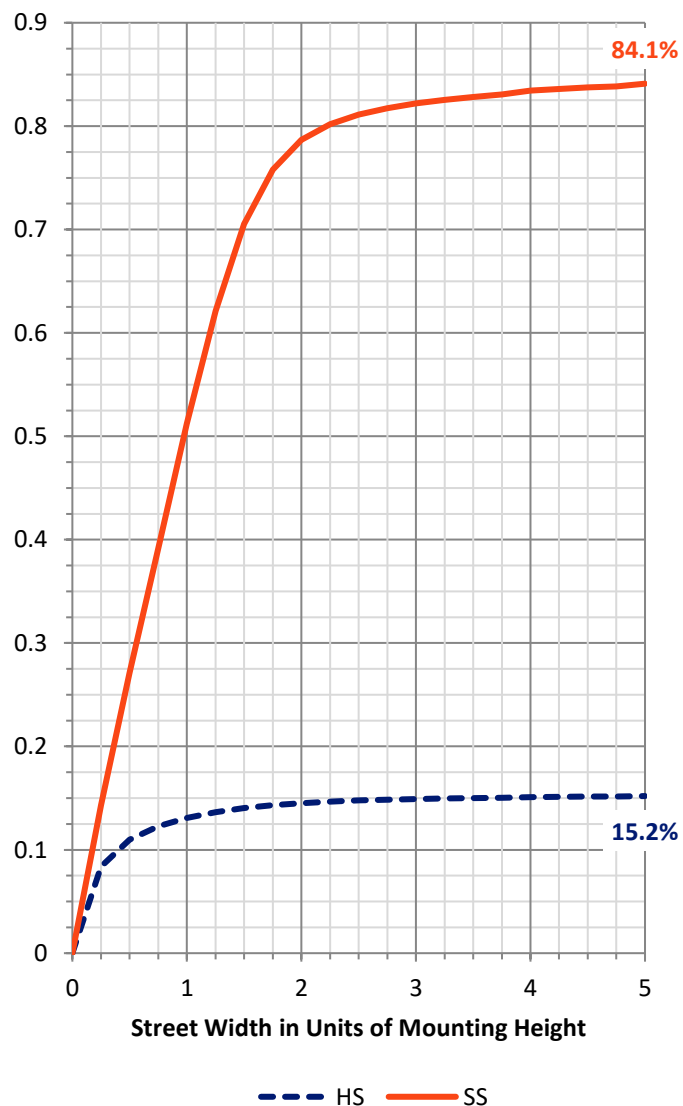
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1798.7	0.0	1798.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	9930.1	0.0	9930.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	11728.9	0.0	11728.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.1	2.3
10°-20°	581.3	5.0
20°-30°	751.5	6.4
30°-40°	1011.3	8.6
40°-50°	1612.6	13.7
50°-60°	2848.3	24.3
60°-70°	3133.5	26.7
70°-80°	1310.8	11.2
80°-90°	209.5	1.8
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°	11728.9	100.0
0°-180°	11728.9	100.0

Coefficient of Utilization



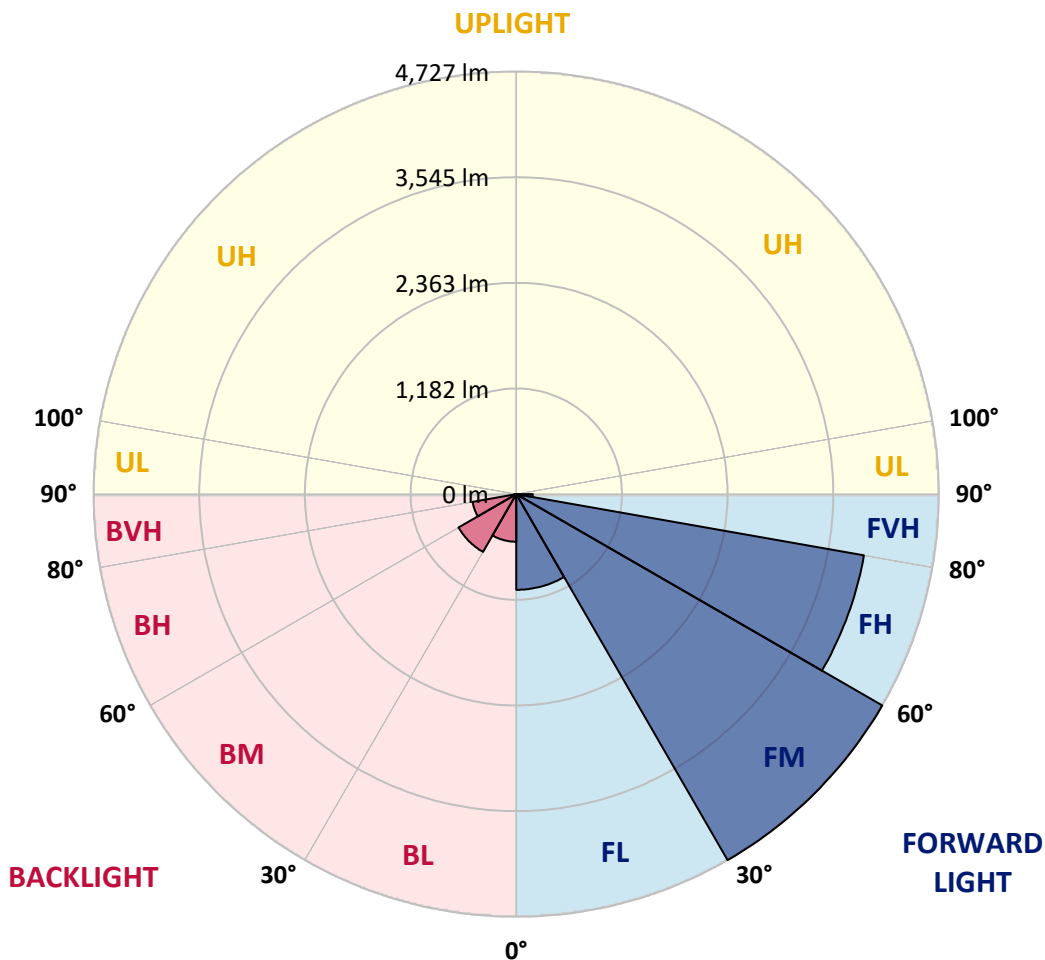
REPORT NUMBER: P480376
 CATALOG NUMBER: IFLD-S-SA2C-727-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1070.2	9.1			
FM (30°-60°)	4726.7	40.3			
FH (60°-80°)	3948.3	33.7			G2/5000
FVH (80°-90°)	184.9	1.6			G2/225
BL (0°-30°)	532.7	4.5	B2/1000		
BM (30°-60°)	745.5	6.4	B1/1000		
BH (60°-80°)	496.0	4.2	B1/500		G1/500
BVH (80°-90°)	24.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





REPORT NUMBER: P480376

CATALOG NUMBER: IFLD-S-SA2C-727-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3225.3	3225.3	3225.3	3225.3	3225.3	3225.3	3225.3	3225.3	3225.3	3225.3	3225.3
2.5°	3312.4	3317.7	3317.7	3328.2	3292.6	3309.7	3307.1	3291.3	3296.5	3268.8	3241.1
5°	3218.7	3214.7	3235.8	3238.5	3266.2	3274.1	3280.7	3270.1	3272.8	3212.1	3185.7
7.5°	2978.5	2977.2	3012.8	3043.2	3101.2	3155.3	3191.0	3180.4	3194.9	3156.7	3094.6
10°	2693.4	2723.8	2760.8	2791.1	2898.0	2966.6	3059.0	3068.2	3123.7	3114.4	3002.3
12.5°	2479.7	2492.9	2520.6	2607.7	2705.3	2818.8	2950.8	2962.7	3016.8	3043.2	2945.5
15°	2304.1	2316.0	2351.7	2416.3	2525.9	2660.5	2828.1	2858.4	2966.6	2975.9	2871.6
17.5°	2176.1	2185.4	2209.1	2273.8	2363.5	2536.4	2694.8	2748.9	2891.4	2936.3	2795.1
20°	2126.0	2106.2	2119.4	2160.3	2250.0	2383.3	2587.9	2635.4	2817.5	2905.9	2722.5
22.5°	2103.6	2086.4	2094.3	2091.7	2162.9	2258.0	2473.1	2523.2	2747.6	2870.3	2657.8
25°	2120.7	2120.7	2112.8	2106.2	2114.1	2176.1	2349.0	2426.9	2653.9	2839.9	2591.8
27.5°	2213.1	2177.5	2181.4	2153.7	2145.8	2145.8	2293.6	2339.8	2623.5	2822.8	2537.7
30°	2272.5	2289.6	2290.9	2250.0	2209.1	2135.2	2242.1	2287.0	2598.4	2843.9	2506.1
32.5°	2424.2	2416.3	2393.9	2386.0	2325.3	2242.1	2267.2	2297.5	2583.9	2891.4	2515.3
35°	2576.0	2572.0	2573.4	2569.4	2506.1	2383.3	2334.5	2375.4	2610.3	2974.5	2547.0
37.5°	2733.0	2743.6	2788.5	2788.5	2721.2	2587.9	2523.2	2511.3	2706.6	3110.5	2622.2
40°	2890.1	2916.5	2973.2	3063.0	2967.9	2843.9	2739.6	2721.2	2822.8	3292.6	2803.0
42.5°	3040.5	3084.1	3196.2	3329.5	3297.9	3173.8	3035.2	3014.1	3061.6	3563.1	3055.0
45°	3233.2	3270.1	3447.0	3651.5	3695.1	3585.5	3423.2	3406.1	3403.4	3959.0	3402.1
47.5°	3526.2	3565.8	3742.6	3948.5	4083.1	4100.2	3918.1	3899.6	3836.3	4493.5	3910.2
50°	3893.0	3957.7	4106.8	4347.0	4542.3	4725.7	4674.3	4620.2	4496.1	5115.0	4554.2
52.5°	4160.9	4240.1	4442.0	4749.5	5093.9	5385.6	5570.3	5570.3	5285.3	5797.3	5328.8
55°	4232.2	4279.7	4534.4	4979.1	5569.0	6306.7	6693.4	6664.3	6224.9	6515.2	6230.2
57.5°	3948.5	4010.5	4319.3	4785.1	5818.4	7168.5	7808.5	7815.1	7251.6	7349.2	7119.6
60°	3167.2	3187.0	3551.2	4174.1	5578.3	7862.6	9331.4	9356.5	8419.5	8092.2	7572.3
62.5°	2189.3	2252.7	2527.2	3073.5	4621.5	7784.7	10800.2	10924.2	9355.1	8484.2	7643.5
65°	1441.1	1479.4	1625.8	1958.4	3217.4	6747.5	11256.8	11639.5	10070.4	8506.6	7345.3
67.5°	1045.2	1051.8	1095.3	1266.9	1933.3	4852.4	10476.9	11016.6	10338.3	8319.2	6645.9
70°	844.6	849.9	865.7	975.2	1248.4	3036.6	8544.9	9390.8	9534.6	7431.1	5352.6
72.5°	686.2	692.8	712.6	815.6	1029.3	1689.2	6248.6	7279.3	7755.7	5497.8	3557.8
75°	539.7	545.0	592.5	694.1	967.3	1160.0	4145.1	5154.6	5219.3	3213.4	1665.4
77.5°	369.5	378.7	436.8	588.6	910.6	1014.8	2583.9	3301.8	2962.7	1257.6	572.7
80°	234.9	248.1	282.4	446.0	805.0	968.6	1607.4	1971.6	1297.2	430.2	275.8
82.5°	138.6	151.8	186.1	289.0	632.1	898.7	1132.3	1233.9	608.4	220.4	166.3
85°	76.5	85.8	112.2	174.2	370.8	798.4	906.6	885.5	348.4	117.5	104.3
87.5°	25.1	29.0	40.9	69.9	153.1	376.1	543.7	510.7	180.8	54.1	40.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480376
 CATALOG NUMBER: IFLD-S-SA2C-727-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3225.3	3225.3	3225.3	3225.3	3225.3	3225.3	3225.3	3225.3	3225.3	3225.3	3225.3
2.5°	3222.6	3218.7	3159.3	3114.4	3037.9	2974.5	2949.5	2915.2	2913.8	2888.8	2882.2
5°	3144.8	3103.9	3012.8	2925.7	2789.8	2698.7	2615.6	2557.5	2533.8	2482.3	2470.4
7.5°	3044.5	2990.4	2850.5	2686.9	2527.2	2384.6	2255.3	2126.0	2053.4	2028.3	2000.6
10°	2940.2	2845.2	2638.0	2454.6	2231.6	2012.5	1809.3	1627.2	1528.2	1458.2	1427.9
12.5°	2857.1	2730.4	2466.5	2192.0	1897.7	1604.7	1368.5	1177.1	1065.0	1012.2	988.4
15°	2763.4	2595.8	2279.1	1932.0	1565.1	1232.6	1001.6	851.2	806.3	781.2	777.3
17.5°	2664.4	2470.4	2075.8	1676.0	1240.5	927.7	778.6	717.9	698.1	687.5	682.3
20°	2572.0	2358.3	1867.3	1390.9	971.3	744.3	674.4	642.7	641.4	646.6	645.3
22.5°	2441.4	2211.8	1661.5	1127.0	776.0	648.0	603.1	595.2	603.1	609.7	612.3
25°	2367.5	2091.7	1431.8	894.7	641.4	575.4	560.9	558.2	570.1	578.0	576.7
27.5°	2290.9	1967.6	1218.1	716.6	562.2	523.9	521.3	523.9	535.8	547.7	546.3
30°	2231.6	1868.7	1017.5	599.1	501.5	487.0	484.3	487.0	493.6	494.9	494.9
32.5°	2182.7	1751.2	847.2	520.0	464.5	452.6	455.3	454.0	455.3	456.6	457.9
35°	2153.7	1681.3	707.3	471.1	434.2	424.9	423.6	419.7	421.0	422.3	421.0
37.5°	2215.7	1646.9	596.5	436.8	413.1	405.1	402.5	399.9	395.9	395.9	395.9
40°	2309.4	1628.5	529.2	414.4	397.2	388.0	380.1	377.4	377.4	378.7	380.1
42.5°	2495.5	1658.8	483.0	397.2	377.4	366.9	359.0	360.3	364.2	368.2	365.5
45°	2764.7	1751.2	461.9	384.0	365.5	351.0	345.8	344.4	348.4	355.0	360.3
47.5°	3117.1	1895.0	454.0	372.1	357.6	337.8	331.2	335.2	340.5	349.7	345.8
50°	3693.8	2218.4	460.6	361.6	345.8	331.2	323.3	319.4	323.3	329.9	332.6
52.5°	4447.3	2805.6	485.6	356.3	337.8	326.0	312.8	306.2	310.1	315.4	315.4
55°	5348.6	3608.0	555.6	349.7	324.6	318.0	303.5	290.3	293.0	293.0	291.6
57.5°	6143.1	4213.7	638.7	340.5	316.7	307.5	289.0	273.2	270.5	271.9	273.2
60°	6499.4	4374.7	678.3	337.8	316.7	294.3	269.2	253.4	249.4	246.8	246.8
62.5°	6437.4	4096.3	597.8	326.0	324.6	283.7	250.7	233.6	228.3	223.0	224.3
65°	6062.6	3699.0	471.1	310.1	326.0	277.1	232.3	215.1	205.9	199.3	198.0
67.5°	5377.7	3158.0	373.5	298.2	312.8	265.3	216.4	196.6	188.7	182.1	179.5
70°	4207.1	2475.7	324.6	282.4	281.1	236.2	198.0	180.8	168.9	161.0	161.0
72.5°	2727.8	1565.1	278.5	250.7	242.8	198.0	171.6	161.0	151.8	145.2	145.2
75°	1235.2	727.1	224.3	209.8	198.0	158.4	145.2	139.9	132.0	125.4	125.4
77.5°	443.4	310.1	167.6	165.0	147.8	122.7	117.5	113.5	108.2	101.6	101.6
80°	248.1	196.6	125.4	120.1	102.9	91.1	84.5	84.5	81.8	77.9	76.5
82.5°	157.0	128.0	92.4	80.5	67.3	60.7	58.1	56.7	55.4	50.1	48.8
85°	99.0	87.1	60.7	47.5	39.6	30.4	29.0	27.7	25.1	22.4	22.4
87.5°	44.9	50.1	23.8	14.5	10.6	6.6	4.0	1.3	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)