

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: P480222

Luminaire Tested: **IFLD-S-SA2E-827-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480222
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-827-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

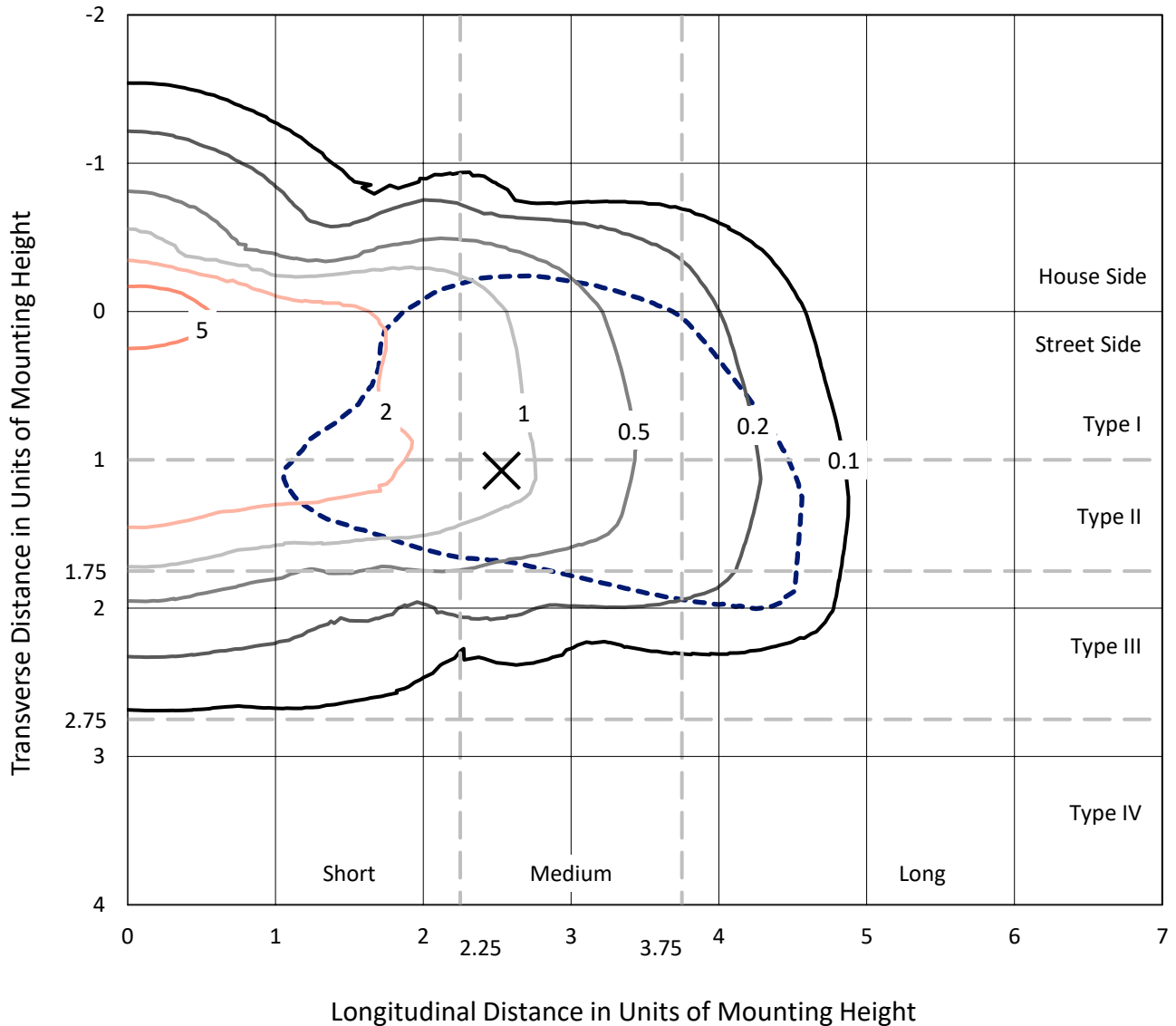
Lumens per Lamp: N/A
Luminaire Lumens: 13265.7 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

REPORT NUMBER: P480222
 CATALOG NUMBER: IFLD-S-SA2E-827-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

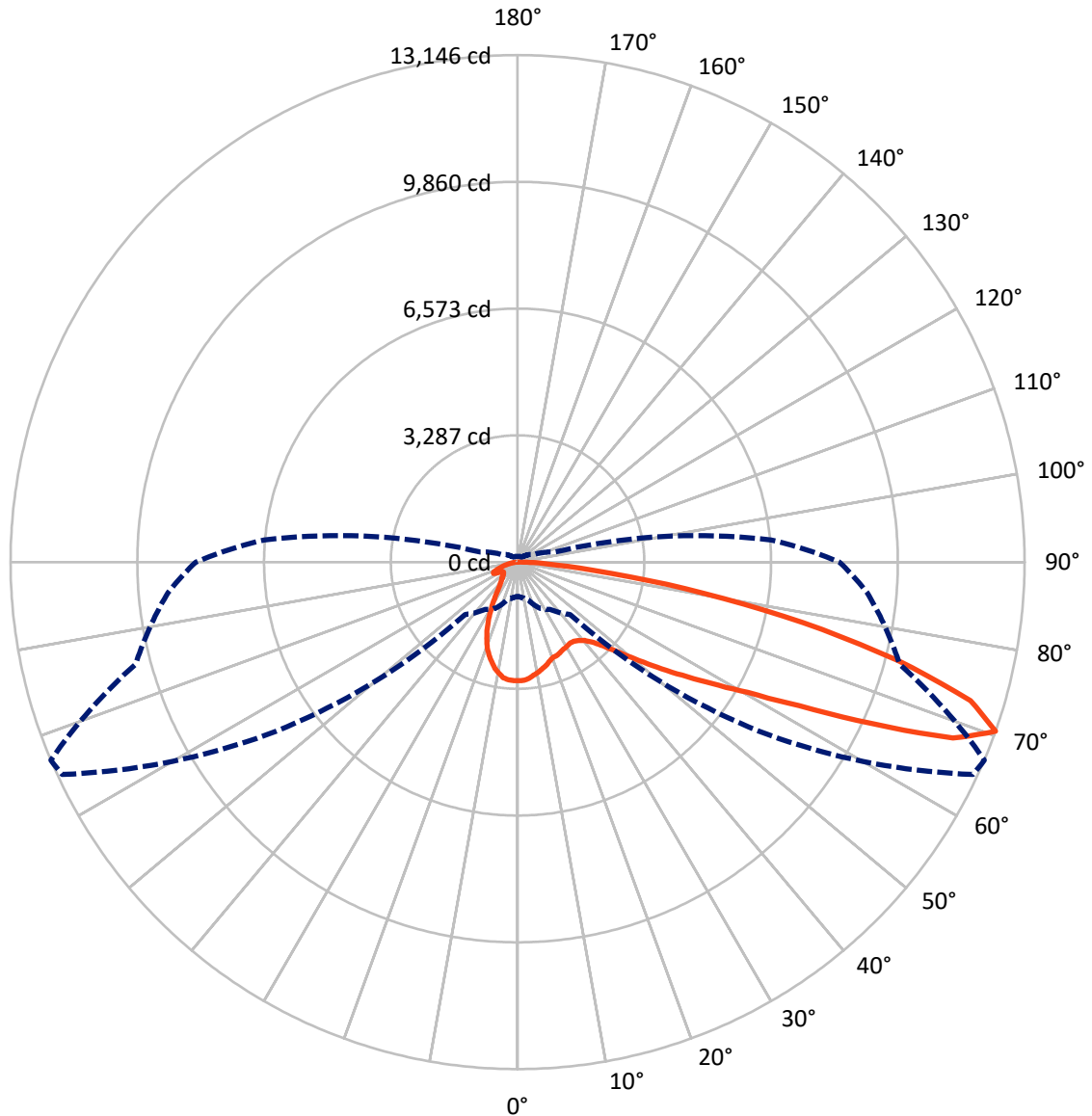
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P480222
CATALOG NUMBER: IFLD-S-SA2E-827-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P480222

CATALOG NUMBER: IFLD-S-SA2E-827-U-SL2

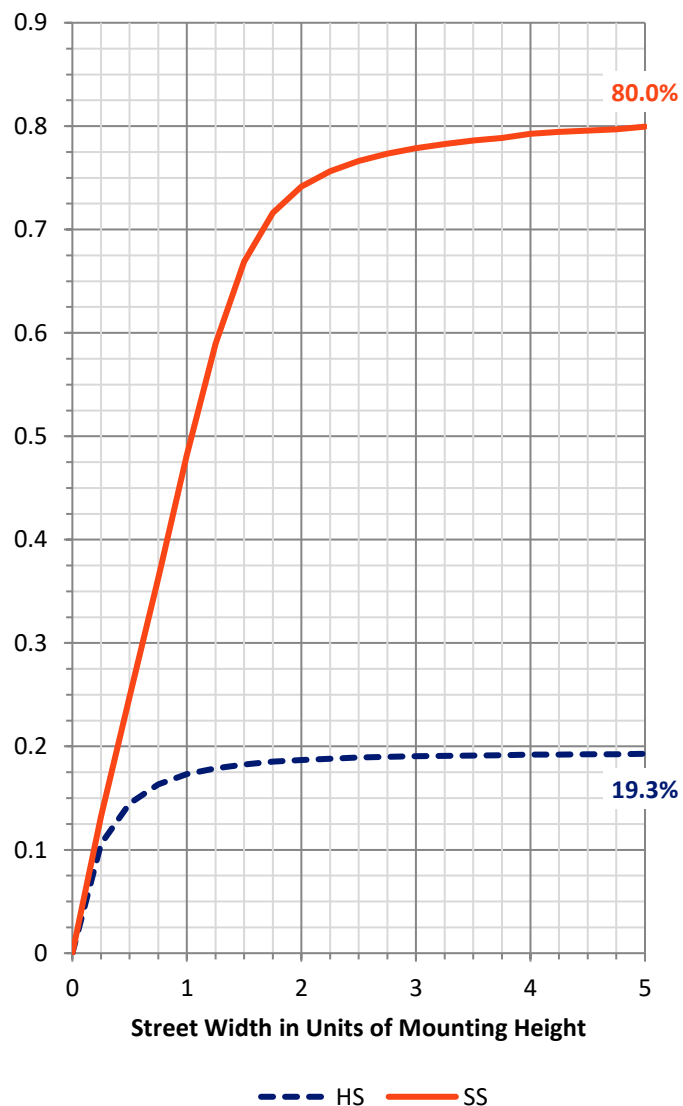
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2583.6	0.0	2583.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	10682.1	0.0	10682.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	13265.7	0.0	13265.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.9	2.0
10°-20°	641.7	4.8
20°-30°	866.6	6.5
30°-40°	1159.6	8.7
40°-50°	1705.2	12.9
50°-60°	2657.9	20.0
60°-70°	3274.1	24.7
70°-80°	2313.5	17.4
80°-90°	379.2	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°	13265.7	100.0
0°-180°	13265.7	100.0

Coefficient of Utilization



REPORT NUMBER: P480222

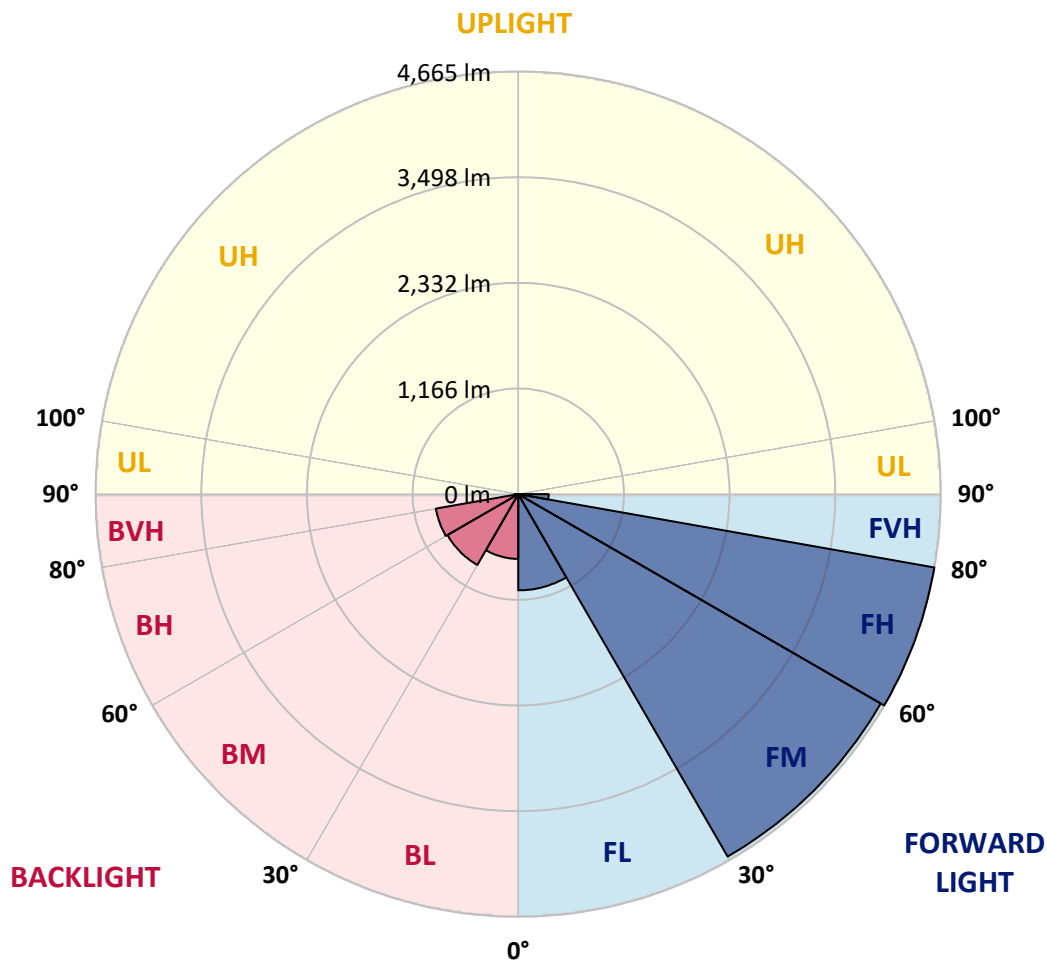
CATALOG NUMBER: IFLD-S-SA2E-827-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1061.8	8.0			
FM (30°-60°)	4620.2	34.8			
FH (60°-80°)	4664.7	35.2			G2/5000
FVH (80°-90°)	335.4	2.5			G3/500
BL (0°-30°)	714.5	5.4	B2/1000		
BM (30°-60°)	902.5	6.8	B1/1000		
BH (60°-80°)	922.9	7.0	B2/1000		G2/1000
BVH (80°-90°)	43.7	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





REPORT NUMBER: P480222

CATALOG NUMBER: IFLD-S-SA2E-827-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0
2.5°	2859.5	2891.8	2903.5	2921.2	2966.7	3000.5	3021.0	3044.5	3072.4	3095.9	3110.6
5°	2659.7	2677.4	2705.3	2724.4	2781.6	2872.7	2934.4	3034.3	3031.3	3068.0	3123.8
7.5°	2465.9	2483.5	2496.7	2534.9	2617.2	2699.4	2812.5	2974.0	2962.3	3047.5	3134.1
10°	2345.4	2332.2	2336.6	2401.3	2465.9	2558.4	2700.9	2865.4	2907.9	3040.1	3163.5
12.5°	2232.4	2217.7	2252.9	2294.0	2373.4	2457.1	2627.4	2775.8	2840.4	3013.7	3176.7
15°	2161.9	2151.6	2195.6	2213.3	2307.3	2407.1	2527.6	2708.2	2778.7	2981.4	3156.1
17.5°	2122.2	2131.0	2147.2	2185.4	2245.6	2330.8	2462.9	2662.7	2693.5	2941.7	3151.7
20°	2129.6	2139.8	2141.3	2157.5	2198.6	2264.7	2399.8	2614.2	2634.8	2934.4	3163.5
22.5°	2188.3	2173.6	2179.5	2169.2	2181.0	2232.4	2351.3	2549.6	2628.9	2872.7	3138.5
25°	2276.4	2255.9	2252.9	2217.7	2195.6	2210.3	2342.5	2533.4	2584.8	2853.6	3137.1
27.5°	2432.1	2401.3	2401.3	2348.4	2258.8	2235.3	2317.5	2507.0	2552.5	2836.0	3103.3
30°	2581.9	2581.9	2583.4	2508.5	2408.6	2292.6	2327.8	2496.7	2526.1	2783.1	3057.7
32.5°	2764.0	2759.6	2752.3	2715.6	2561.3	2388.0	2377.8	2483.5	2498.2	2765.5	3044.5
35°	2941.7	2930.0	2987.3	2954.9	2797.8	2574.6	2429.2	2489.4	2521.7	2739.1	3003.4
37.5°	3075.4	3082.7	3201.7	3222.2	3087.1	2786.0	2574.6	2548.1	2579.0	2777.2	3003.4
40°	3248.7	3278.0	3389.7	3458.7	3376.4	3065.1	2805.1	2646.5	2668.6	2862.4	3068.0
42.5°	3476.3	3501.3	3643.7	3733.3	3709.8	3420.5	3032.8	2852.1	2834.5	3004.9	3165.0
45°	3777.4	3781.8	3925.7	4049.1	4097.6	3792.1	3394.1	3112.1	3097.4	3250.1	3342.7
47.5°	4135.7	4131.3	4220.9	4353.1	4483.8	4235.6	3809.7	3507.2	3454.3	3601.2	3637.9
50°	4482.3	4463.3	4483.8	4652.7	4903.9	4790.8	4314.9	3990.3	3937.5	4018.3	4081.4
52.5°	4673.3	4696.8	4641.0	4864.2	5350.3	5447.3	4984.6	4567.5	4522.0	4561.7	4671.8
55°	4539.6	4588.1	4551.4	4762.9	5545.7	6247.7	5851.1	5235.8	5177.0	5162.3	5343.0
57.5°	3971.3	4059.4	4066.7	4401.6	5478.1	6867.5	7070.1	6024.4	5936.3	5786.5	5973.0
60°	3048.9	3137.1	3204.6	3601.2	4899.4	7237.6	8483.0	7146.5	6855.7	6468.0	6579.6
62.5°	2136.9	2197.1	2264.7	2508.5	3777.4	7020.2	9704.9	8726.8	8190.7	7186.2	7325.7
65°	1556.8	1603.8	1672.8	1816.7	2320.5	5808.5	10271.8	10603.7	10095.6	8099.7	8082.0
67.5°	1172.0	1201.4	1292.4	1523.0	1608.2	3587.9	9684.3	12586.4	12175.2	9114.5	8690.1
70°	887.1	912.0	997.2	1313.0	1502.4	1923.9	7640.0	13028.5	13146.0	10252.7	9098.3
72.5°	611.0	638.9	734.3	1094.2	1430.5	1525.9	4795.2	11835.9	12280.9	10721.2	8660.7
75°	374.5	393.6	449.4	829.8	1420.2	1492.2	2639.2	9699.0	10170.5	9906.1	7576.8
77.5°	264.4	262.9	273.2	486.1	1230.7	1501.0	1627.3	7106.8	7565.1	7300.7	5141.8
80°	192.4	193.9	204.1	290.8	835.7	1525.9	1282.1	4759.9	4896.5	3806.8	2028.2
82.5°	116.0	121.9	146.9	196.8	502.3	1377.6	1185.2	2645.1	2474.7	1221.9	558.1
85°	61.7	61.7	86.7	124.8	267.3	1028.1	1141.1	1258.6	1054.5	378.9	207.1
87.5°	14.7	14.7	25.0	49.9	107.2	492.0	778.4	500.8	400.9	127.8	85.2
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: P480222
 CATALOG NUMBER: IFLD-S-SA2E-827-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0
2.5°	3104.7	3087.1	3109.2	3065.1	3029.8	3031.3	2977.0	2974.0	2966.7	2928.5	2941.7
5°	3140.0	3125.3	3100.3	3051.9	2974.0	2896.2	2849.2	2789.0	2764.0	2750.8	2756.7
7.5°	3173.8	3147.3	3075.4	3007.8	2887.4	2740.5	2655.3	2574.6	2471.8	2460.0	2439.4
10°	3182.6	3126.8	3034.3	2890.3	2730.2	2567.2	2373.4	2223.6	2144.2	2082.6	2059.1
12.5°	3169.4	3145.9	2968.2	2783.1	2540.8	2285.2	2059.1	1847.6	1700.7	1624.3	1603.8
15°	3167.9	3126.8	2894.7	2620.1	2310.2	1976.8	1655.2	1401.1	1246.9	1183.7	1183.7
17.5°	3169.4	3071.0	2808.1	2455.6	2038.5	1587.6	1233.7	1025.1	939.9	931.1	938.5
20°	3140.0	3029.8	2717.0	2261.7	1697.8	1192.6	895.9	810.7	810.7	822.4	826.9
22.5°	3113.6	2968.2	2573.1	2022.3	1351.2	863.6	728.5	703.5	731.4	752.0	760.8
25°	3076.8	2916.8	2426.2	1774.1	1028.1	696.1	633.0	638.9	665.3	702.0	699.1
27.5°	3024.0	2827.2	2251.5	1486.3	765.2	600.7	584.5	587.5	615.4	631.5	628.6
30°	2963.8	2736.1	2089.9	1199.9	606.6	550.7	549.3	556.6	561.0	569.8	568.4
32.5°	2887.4	2615.7	1918.1	932.6	546.3	522.8	517.0	512.6	517.0	515.5	511.1
35°	2833.0	2551.1	1743.3	710.8	512.6	497.9	493.5	486.1	480.3	471.4	470.0
37.5°	2818.4	2486.4	1559.7	580.1	486.1	478.8	464.1	450.9	443.5	439.1	436.2
40°	2809.5	2443.8	1380.5	509.6	464.1	456.8	439.1	421.5	414.2	409.8	411.2
42.5°	2840.4	2420.4	1198.4	474.4	445.0	431.8	412.7	392.1	390.7	387.7	392.1
45°	2949.1	2449.7	1029.5	449.4	425.9	403.9	378.9	368.6	367.2	364.2	367.2
47.5°	3195.8	2523.2	885.6	433.3	405.4	386.3	359.8	345.1	343.7	342.2	342.2
50°	3536.5	2749.3	765.2	414.2	392.1	365.7	340.7	324.6	321.6	315.8	315.8
52.5°	4071.1	3129.7	693.2	403.9	368.6	346.6	320.2	302.5	295.2	289.3	289.3
55°	4673.3	3601.2	680.0	386.3	343.7	323.1	299.6	282.0	274.6	267.3	264.4
57.5°	5359.1	4225.3	774.0	374.5	326.0	299.6	273.2	257.0	251.1	243.8	240.9
60°	5998.0	4848.0	1066.2	356.9	309.9	277.6	251.1	235.0	227.6	220.3	220.3
62.5°	6736.7	5619.1	1561.2	356.9	295.2	254.1	227.6	215.9	211.5	204.1	202.7
65°	7610.6	6416.6	1922.5	378.9	290.8	233.5	205.6	193.9	189.5	185.1	183.6
67.5°	8275.9	6874.8	1653.7	437.7	309.9	215.9	183.6	176.2	173.3	168.9	166.0
70°	8346.4	6595.8	997.2	472.9	329.0	198.3	164.5	157.1	157.1	152.7	149.8
72.5°	7713.4	5852.6	671.2	421.5	298.1	177.7	145.4	139.5	136.6	133.6	132.2
75°	6454.8	4964.1	530.2	336.3	229.1	146.9	126.3	120.4	116.0	114.6	111.6
77.5°	4335.5	3226.6	392.1	262.9	168.9	119.0	105.7	99.9	95.5	94.0	89.6
80°	1665.5	1229.3	252.6	190.9	119.0	94.0	83.7	77.8	74.9	70.5	67.6
82.5°	490.5	398.0	141.0	117.5	76.4	64.6	60.2	55.8	51.4	47.0	45.5
85°	202.7	182.1	86.7	61.7	47.0	38.2	35.2	30.8	26.4	23.5	20.6
87.5°	94.0	77.8	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)