

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: P480612

Luminaire Tested: **IFLD-S-SA2E-827-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480612
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-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

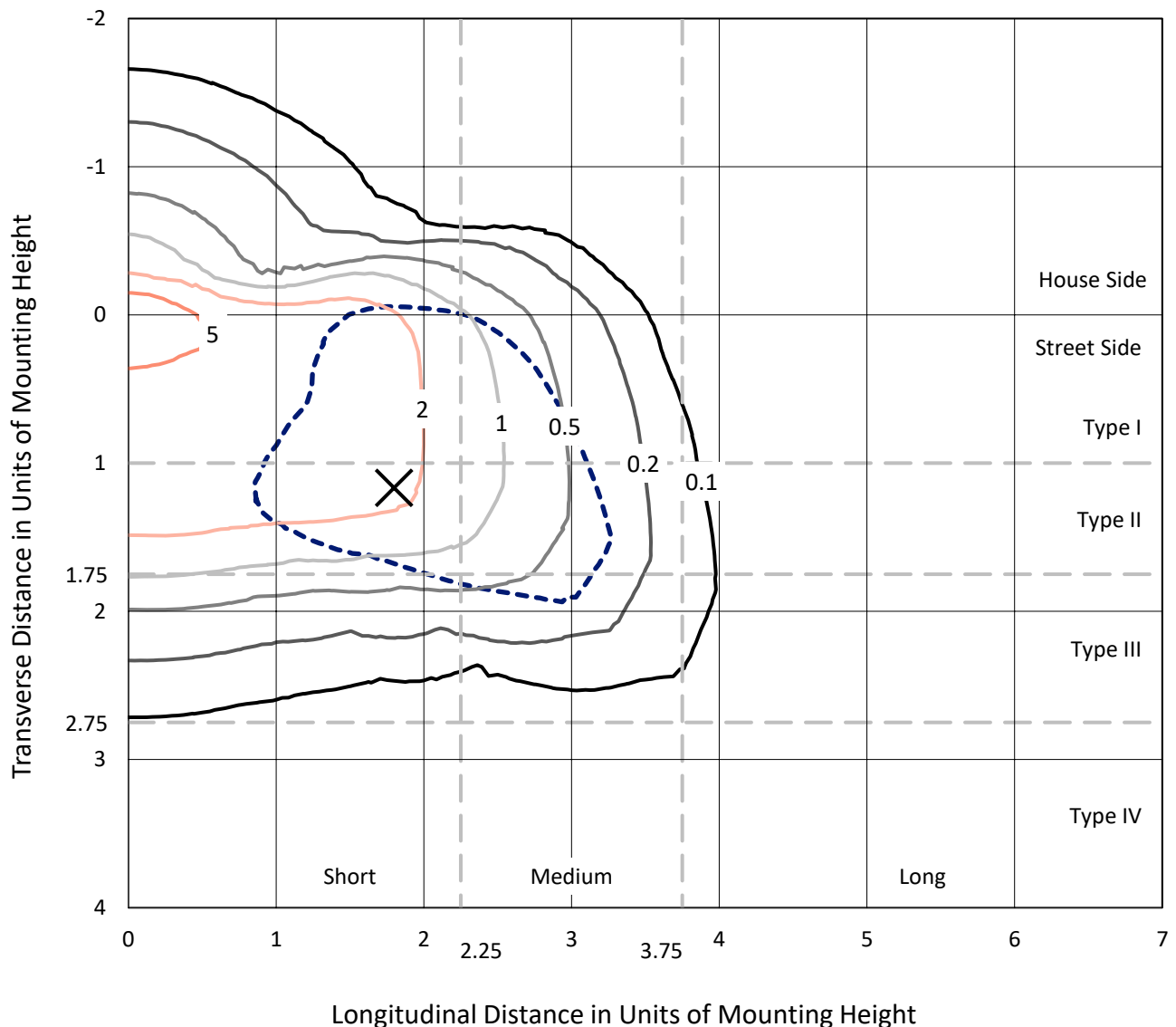
Lumens per Lamp: N/A
Luminaire Lumens: 13128.2 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 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

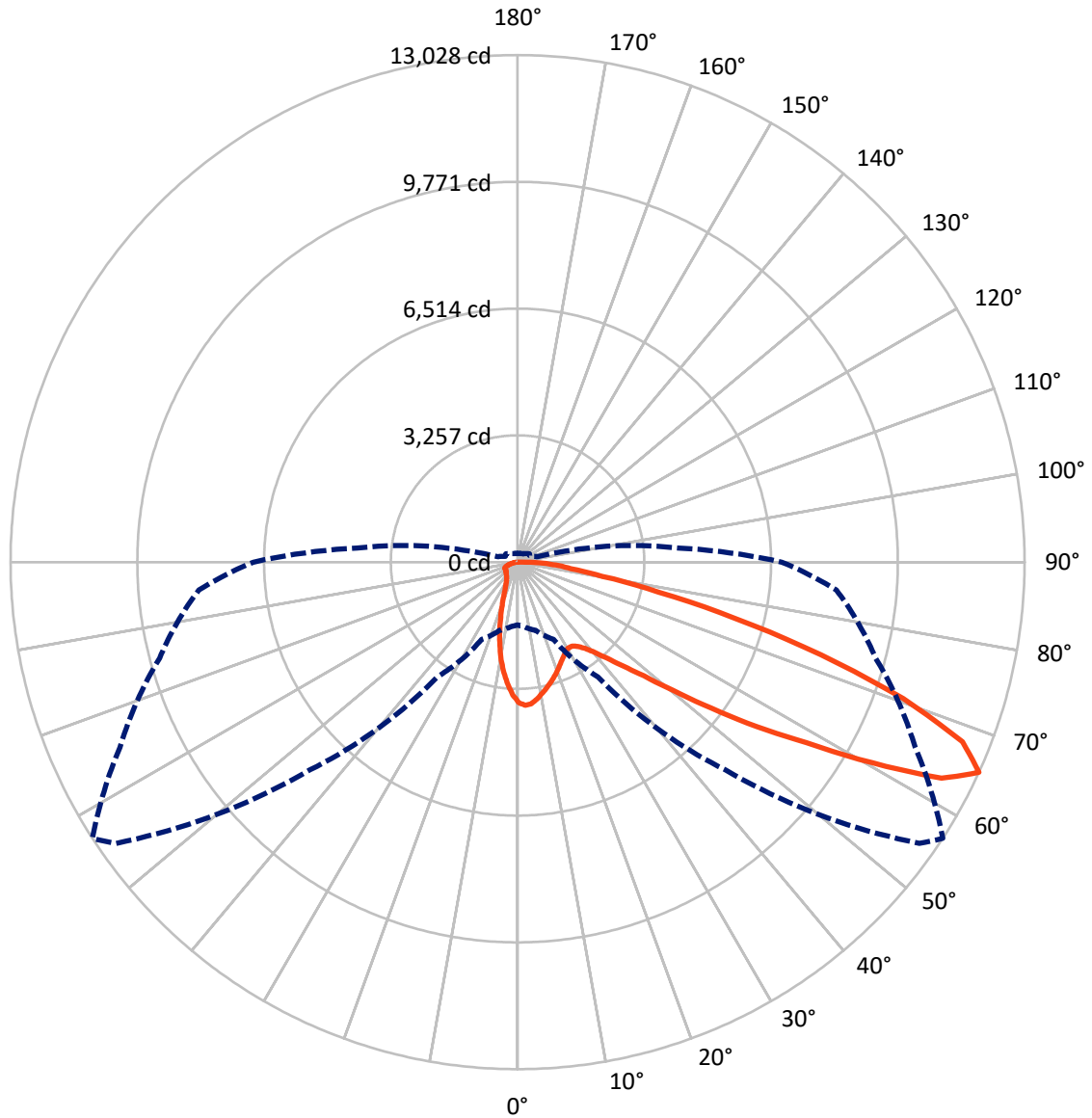
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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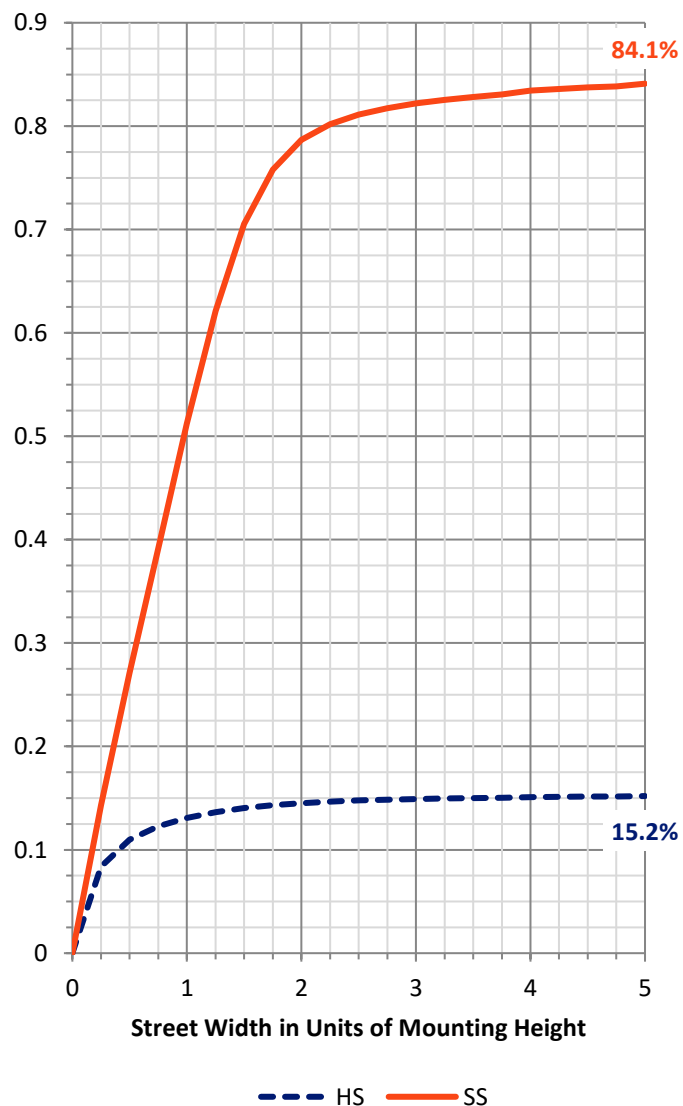
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2013.3	0.0	2013.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	11114.9	0.0	11114.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	13128.2	0.0	13128.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.3	2.3
10°-20°	650.6	5.0
20°-30°	841.2	6.4
30°-40°	1132.0	8.6
40°-50°	1805.0	13.7
50°-60°	3188.1	24.3
60°-70°	3507.3	26.7
70°-80°	1467.2	11.2
80°-90°	234.5	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°	13128.2	100.0
0°-180°	13128.2	100.0

Coefficient of Utilization



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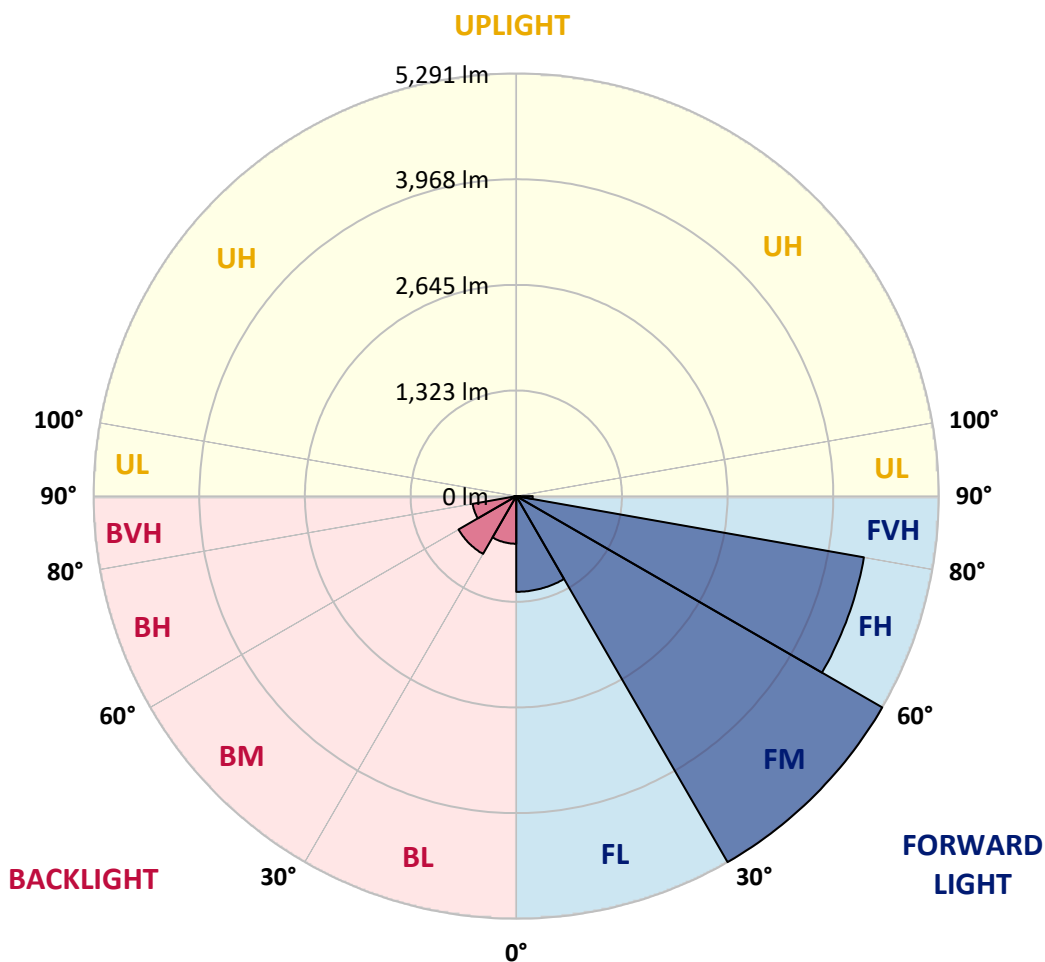
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1197.9	9.1			
FM (30°-60°)	5290.7	40.3			
FH (60°-80°)	4419.4	33.7			G2/5000
FVH (80°-90°)	207.0	1.6			G2/225
BL (0°-30°)	596.3	4.5	B2/1000		
BM (30°-60°)	834.4	6.4	B1/1000		
BH (60°-80°)	555.1	4.2	B2/1000		G2/1000
BVH (80°-90°)	27.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3610.1	3610.1	3610.1	3610.1	3610.1	3610.1	3610.1	3610.1	3610.1	3610.1	3610.1
2.5°	3707.6	3713.5	3713.5	3725.3	3685.4	3704.6	3701.7	3683.9	3689.8	3658.8	3627.8
5°	3602.7	3598.3	3621.9	3624.8	3655.9	3664.7	3672.1	3660.3	3663.3	3595.3	3565.8
7.5°	3333.9	3332.4	3372.3	3406.2	3471.2	3531.8	3571.7	3559.9	3576.1	3533.3	3463.8
10°	3014.8	3048.8	3090.1	3124.1	3243.8	3320.6	3424.0	3434.3	3496.3	3486.0	3360.4
12.5°	2775.5	2790.3	2821.3	2918.8	3028.1	3155.1	3302.8	3316.1	3376.7	3406.2	3296.9
15°	2579.0	2592.3	2632.2	2704.6	2827.2	2977.9	3165.5	3199.4	3320.6	3330.9	3214.2
17.5°	2435.8	2446.1	2472.7	2545.1	2645.5	2839.0	3016.3	3076.8	3236.4	3286.6	3128.5
20°	2379.6	2357.5	2372.3	2418.0	2518.5	2667.7	2896.6	2949.8	3153.6	3252.6	3047.3
22.5°	2354.5	2335.3	2344.2	2341.2	2421.0	2527.4	2768.1	2824.3	3075.4	3212.7	2974.9
25°	2373.7	2373.7	2364.9	2357.5	2366.3	2435.8	2629.3	2716.4	2970.5	3178.8	2901.1
27.5°	2477.1	2437.2	2441.7	2410.7	2401.8	2401.8	2567.2	2618.9	2936.5	3159.6	2840.5
30°	2543.6	2562.8	2564.3	2518.5	2472.7	2390.0	2509.6	2559.8	2908.4	3183.2	2805.0
32.5°	2713.5	2704.6	2679.5	2670.6	2602.7	2509.6	2537.7	2571.7	2892.2	3236.4	2815.4
35°	2883.3	2878.9	2880.4	2876.0	2805.0	2667.7	2613.0	2658.8	2921.7	3329.4	2850.8
37.5°	3059.1	3070.9	3121.2	3121.2	3045.8	2896.6	2824.3	2811.0	3029.6	3481.6	2935.0
40°	3234.9	3264.4	3327.9	3428.4	3322.0	3183.2	3066.5	3045.8	3159.6	3685.4	3137.4
42.5°	3403.3	3452.0	3577.6	3726.8	3691.3	3552.5	3397.4	3373.7	3426.9	3988.2	3419.5
45°	3618.9	3660.3	3858.2	4087.2	4135.9	4013.3	3831.6	3812.4	3809.5	4431.4	3808.0
47.5°	3946.9	3991.2	4189.1	4419.5	4570.2	4589.4	4385.6	4364.9	4294.0	5029.6	4376.7
50°	4357.5	4429.9	4596.8	4865.6	5084.2	5289.6	5232.0	5171.4	5032.5	5725.3	5097.5
52.5°	4657.4	4746.0	4972.0	5316.2	5701.7	6028.1	6234.9	6234.9	5915.9	6489.0	5964.6
55°	4737.1	4790.3	5075.4	5573.2	6233.4	7059.2	7491.9	7459.4	6967.6	7292.5	6973.5
57.5°	4419.5	4489.0	4834.6	5356.0	6512.6	8023.7	8740.1	8747.5	8116.8	8226.1	7969.1
60°	3545.1	3567.2	3974.9	4672.1	6243.8	8800.7	10444.7	10472.8	9424.0	9057.7	8475.7
62.5°	2450.5	2521.4	2828.7	3440.2	5172.9	8713.5	12088.7	12227.6	10471.3	9496.4	8555.5
65°	1613.0	1655.9	1819.8	2192.0	3601.2	7552.5	12599.8	13028.2	11271.9	9521.5	8221.6
67.5°	1169.9	1177.3	1226.0	1418.0	2164.0	5431.4	11726.8	12331.0	11571.7	9311.8	7438.8
70°	945.4	951.3	969.0	1091.6	1397.4	3398.9	9564.3	10511.2	10672.2	8317.7	5991.2
72.5°	768.1	775.5	797.6	912.9	1152.2	1890.7	6994.2	8147.8	8681.0	6153.7	3982.3
75°	604.1	610.1	663.2	777.0	1082.7	1298.4	4639.6	5769.6	5842.0	3596.8	1864.1
77.5°	413.6	423.9	488.9	658.8	1019.2	1135.9	2892.2	3695.8	3316.1	1407.7	641.1
80°	262.9	277.7	316.1	499.3	901.0	1084.2	1799.1	2206.8	1452.0	481.5	308.7
82.5°	155.1	169.9	208.3	323.5	707.5	1005.9	1267.4	1381.1	681.0	246.7	186.1
85°	85.7	96.0	125.6	195.0	415.1	893.7	1014.8	991.1	390.0	131.5	116.7
87.5°	28.1	32.5	45.8	78.3	171.3	421.0	608.6	571.6	202.4	60.6	45.8
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°	3610.1	3610.1	3610.1	3610.1	3610.1	3610.1	3610.1	3610.1	3610.1	3610.1	3610.1
2.5°	3607.1	3602.7	3536.2	3486.0	3400.3	3329.4	3301.4	3263.0	3261.5	3233.4	3226.0
5°	3520.0	3474.2	3372.3	3274.8	3122.6	3020.7	2927.6	2862.7	2836.1	2778.5	2765.2
7.5°	3407.7	3347.2	3190.6	3007.4	2828.7	2669.2	2524.4	2379.6	2298.4	2270.3	2239.3
10°	3291.0	3184.7	2952.8	2747.4	2497.8	2252.6	2025.1	1821.3	1710.5	1632.2	1598.2
12.5°	3198.0	3056.2	2760.7	2453.5	2124.1	1796.2	1531.8	1317.6	1192.0	1133.0	1106.4
15°	3093.1	2905.5	2551.0	2162.5	1751.9	1379.6	1121.1	952.7	902.5	874.5	870.0
17.5°	2982.3	2765.2	2323.5	1875.9	1388.5	1038.4	871.5	803.6	781.4	769.6	763.7
20°	2878.9	2639.6	2090.1	1556.9	1087.2	833.1	754.8	719.4	717.9	723.8	722.3
22.5°	2732.7	2475.7	1859.7	1261.5	868.5	725.3	675.0	666.2	675.0	682.4	685.4
25°	2650.0	2341.2	1602.7	1001.5	717.9	644.0	627.8	624.8	638.1	647.0	645.5
27.5°	2564.3	2202.4	1363.4	802.1	629.3	586.4	583.5	586.4	599.7	613.0	611.5
30°	2497.8	2091.6	1138.9	670.6	561.3	545.1	542.1	545.1	552.4	553.9	553.9
32.5°	2443.2	1960.1	948.3	582.0	519.9	506.7	509.6	508.1	509.6	511.1	512.6
35°	2410.7	1881.8	791.7	527.3	486.0	475.6	474.2	469.7	471.2	472.7	471.2
37.5°	2480.1	1843.4	667.7	488.9	462.3	453.5	450.5	447.6	443.1	443.1	443.1
40°	2585.0	1822.8	592.3	463.8	444.6	434.3	425.4	422.5	422.5	423.9	425.4
42.5°	2793.2	1856.7	540.6	444.6	422.5	410.6	401.8	403.3	407.7	412.1	409.2
45°	3094.6	1960.1	517.0	429.8	409.2	392.9	387.0	385.5	390.0	397.3	403.3
47.5°	3489.0	2121.1	508.1	416.5	400.3	378.1	370.8	375.2	381.1	391.4	387.0
50°	4134.5	2483.0	515.5	404.7	387.0	370.8	361.9	357.5	361.9	369.3	372.2
52.5°	4977.9	3140.4	543.6	398.8	378.1	364.8	350.1	342.7	347.1	353.0	353.0
55°	5986.8	4038.4	621.9	391.4	363.4	356.0	339.7	325.0	327.9	327.9	326.4
57.5°	6876.0	4716.4	714.9	381.1	354.5	344.2	323.5	305.8	302.8	304.3	305.8
60°	7274.8	4896.6	759.2	378.1	354.5	329.4	301.3	283.6	279.2	276.2	276.2
62.5°	7205.4	4585.0	669.1	364.8	363.4	317.6	280.7	261.5	255.5	249.6	251.1
65°	6785.9	4140.4	527.3	347.1	364.8	310.2	260.0	240.8	230.4	223.0	221.6
67.5°	6019.3	3534.7	418.0	333.8	350.1	296.9	242.2	220.1	211.2	203.8	200.9
70°	4709.1	2771.1	363.4	316.1	314.6	264.4	221.6	202.4	189.1	180.2	180.2
72.5°	3053.2	1751.9	311.7	280.7	271.8	221.6	192.0	180.2	169.9	162.5	162.5
75°	1382.6	813.9	251.1	234.9	221.6	177.3	162.5	156.6	147.7	140.3	140.3
77.5°	496.3	347.1	187.6	184.6	165.4	137.4	131.5	127.0	121.1	113.7	113.7
80°	277.7	220.1	140.3	134.4	115.2	101.9	94.5	94.5	91.6	87.2	85.7
82.5°	175.8	143.3	103.4	90.1	75.3	67.9	65.0	63.5	62.0	56.1	54.7
85°	110.8	97.5	67.9	53.2	44.3	34.0	32.5	31.0	28.1	25.1	25.1
87.5°	50.2	56.1	26.6	16.2	11.8	7.4	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)