

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: P480244

Luminaire Tested: **IFLD-M-SA4B-827-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480244
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-827-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

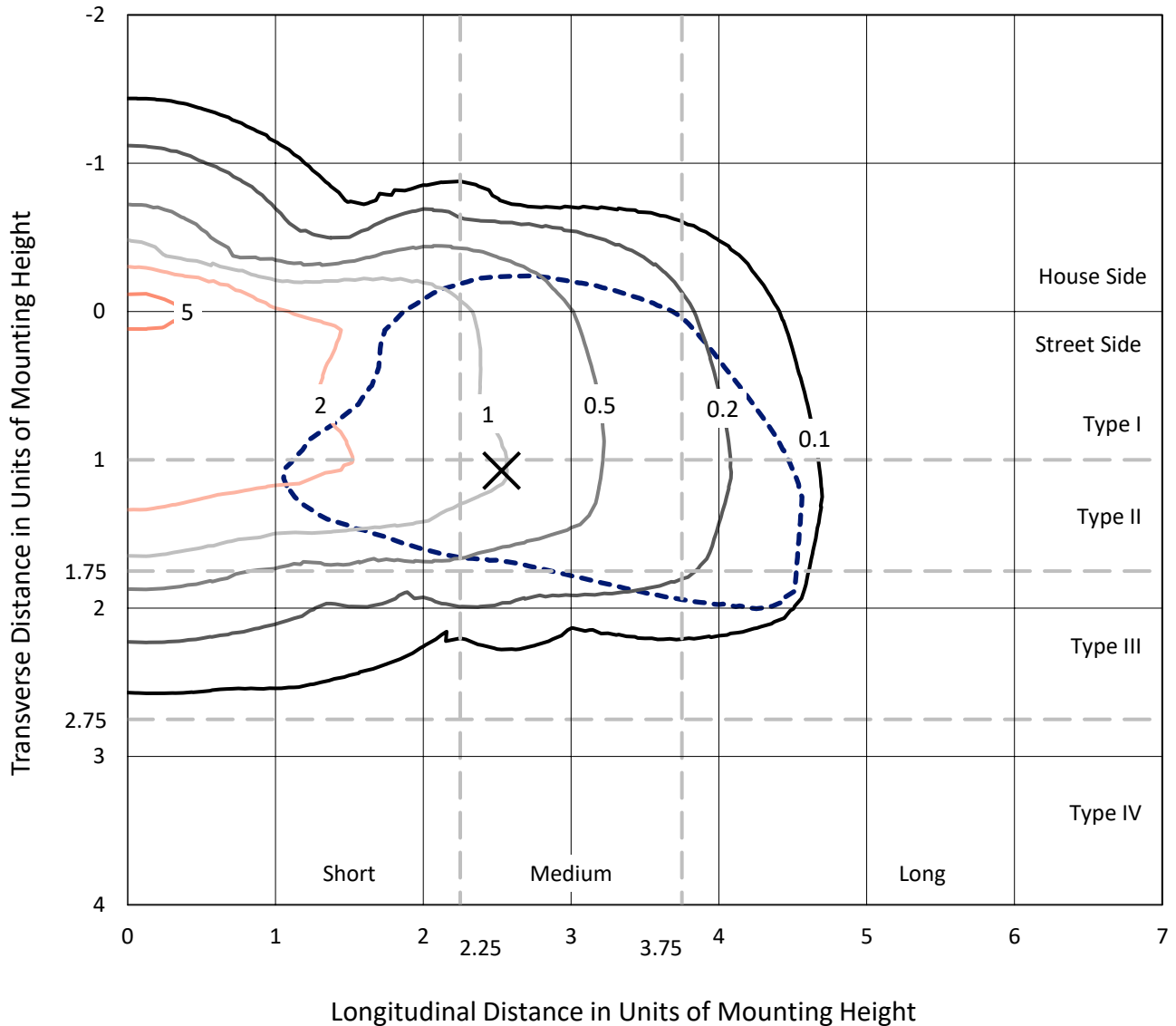
Lumens per Lamp: N/A
Luminaire Lumens: 16739.9 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 166.1
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

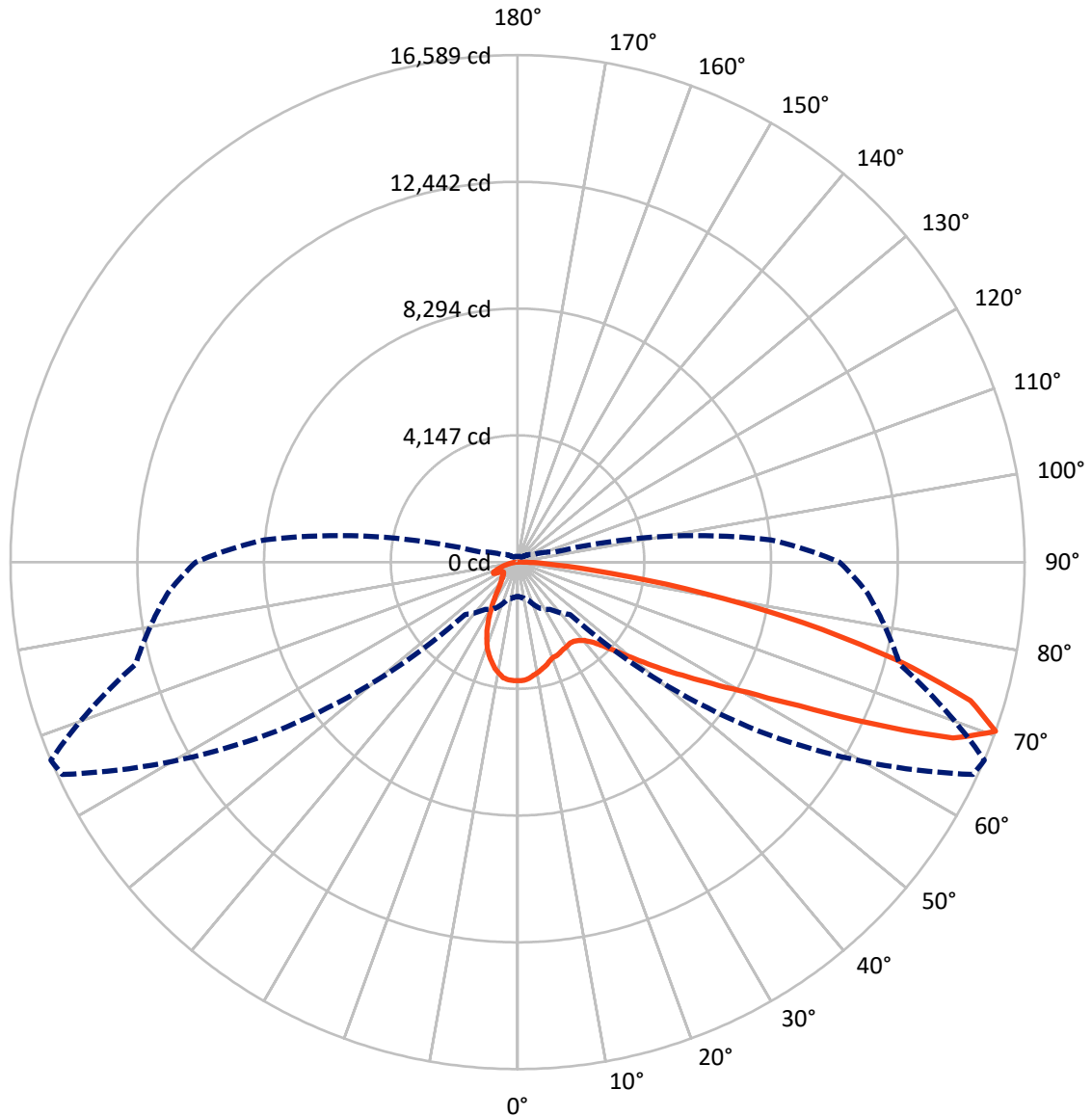
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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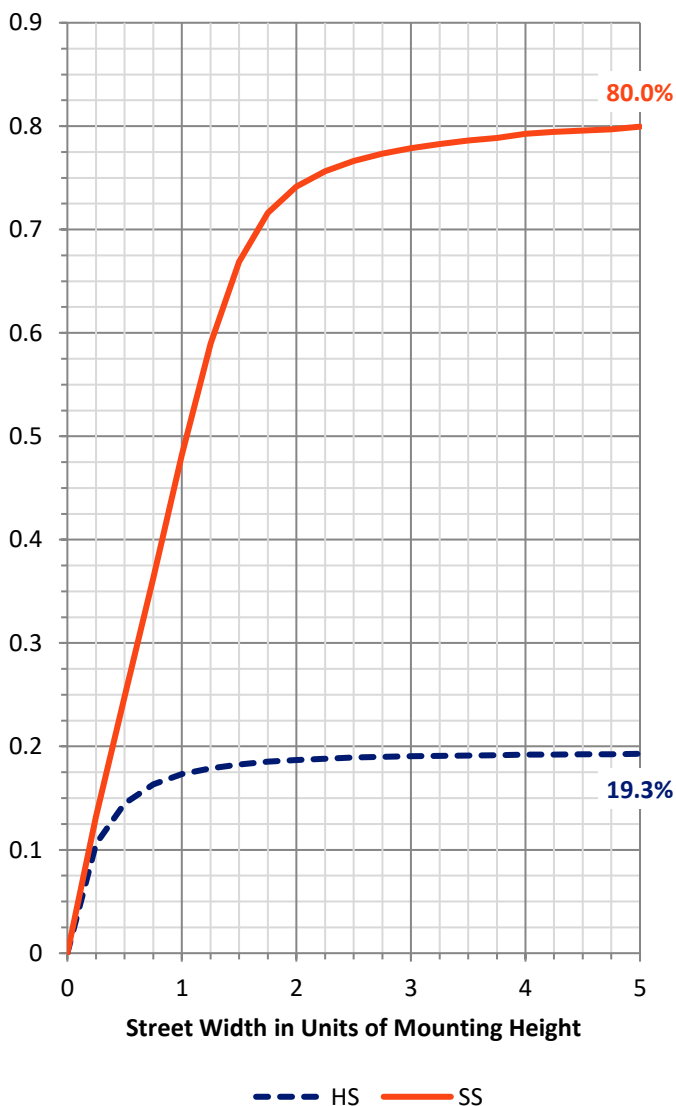
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3260.3	0.0	3260.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	13479.6	0.0	13479.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	16739.9	0.0	16739.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.1	2.0
10°-20°	809.8	4.8
20°-30°	1093.6	6.5
30°-40°	1463.3	8.7
40°-50°	2151.7	12.9
50°-60°	3354.0	20.0
60°-70°	4131.6	24.7
70°-80°	2919.3	17.4
80°-90°	478.5	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°	16739.9	100.0
0°-180°	16739.9	100.0

Coefficient of Utilization



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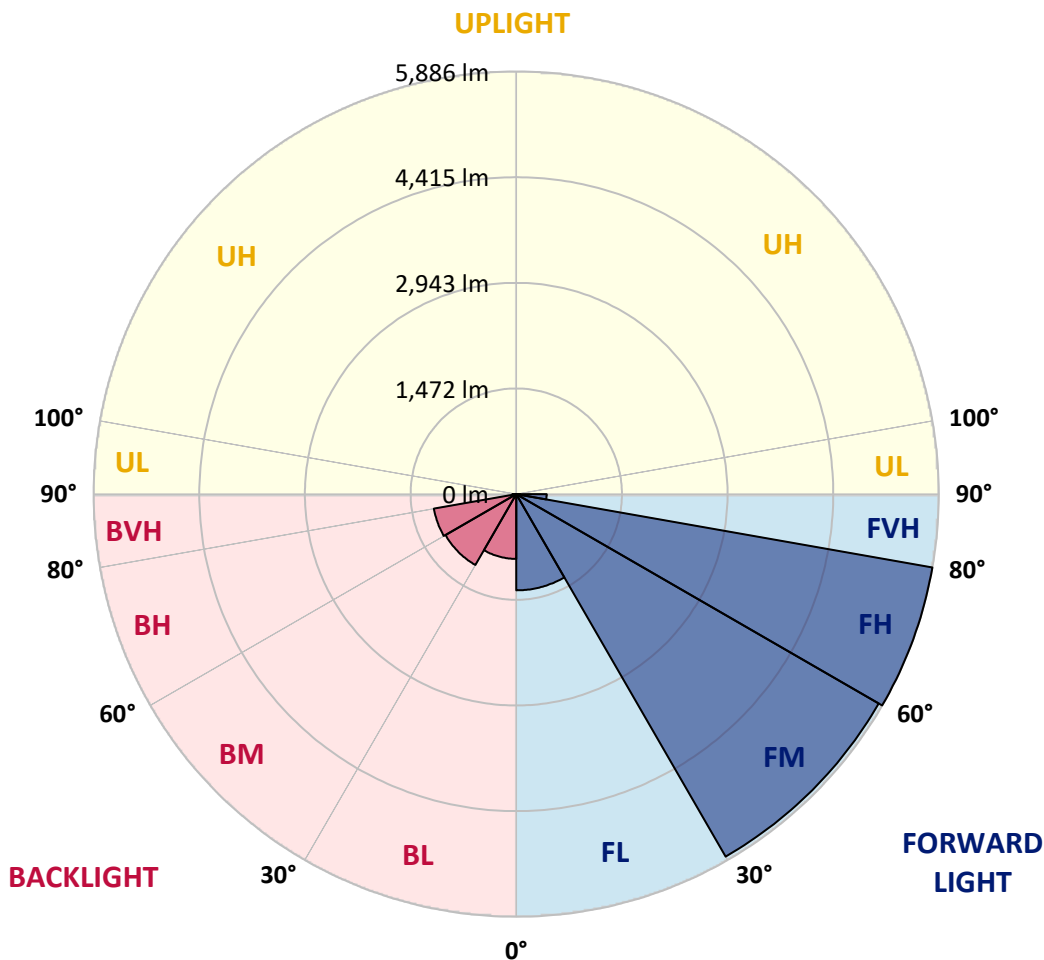
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1339.9	8.0			
FM	(30°-60°)	5830.1	34.8			
FH	(60°-80°)	5886.3	35.2			G3/7500
FVH	(80°-90°)	423.3	2.5			G3/500
BL	(0°-30°)	901.6	5.4	B2/1000		
BM	(30°-60°)	1138.9	6.8	B2/2500		
BH	(60°-80°)	1164.6	7.0	B3/2500		G3/2500
BVH	(80°-90°)	55.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2
2.5°	3608.4	3649.1	3664.0	3686.2	3743.6	3786.3	3812.2	3841.9	3877.1	3906.7	3925.3
5°	3356.3	3378.5	3413.8	3437.9	3510.1	3625.0	3702.9	3828.9	3825.2	3871.5	3941.9
7.5°	3111.7	3133.9	3150.6	3198.8	3302.6	3406.3	3549.0	3752.9	3738.1	3845.6	3954.9
10°	2959.7	2943.0	2948.6	3030.1	3111.7	3228.4	3408.2	3615.8	3669.5	3836.3	3992.0
12.5°	2817.0	2798.5	2842.9	2894.8	2994.9	3100.6	3315.5	3502.7	3584.3	3803.0	4008.7
15°	2728.0	2715.1	2770.7	2792.9	2911.5	3037.5	3189.5	3417.5	3506.4	3762.2	3982.7
17.5°	2678.0	2689.1	2709.5	2757.7	2833.7	2941.2	3108.0	3360.0	3398.9	3712.1	3977.2
20°	2687.3	2700.2	2702.1	2722.5	2774.4	2857.8	3028.3	3298.9	3324.8	3702.9	3992.0
22.5°	2761.4	2742.9	2750.3	2737.3	2752.1	2817.0	2967.1	3217.3	3317.4	3625.0	3960.5
25°	2872.6	2846.7	2842.9	2798.5	2770.7	2789.2	2956.0	3196.9	3261.8	3600.9	3958.6
27.5°	3069.0	3030.1	3030.1	2963.4	2850.4	2820.7	2924.5	3163.6	3221.0	3578.7	3916.0
30°	3258.1	3258.1	3259.9	3165.4	3039.4	2893.0	2937.5	3150.6	3187.7	3512.0	3858.5
32.5°	3487.9	3482.3	3473.1	3426.7	3232.1	3013.4	3000.5	3133.9	3152.4	3489.7	3841.9
35°	3712.1	3697.3	3769.6	3728.8	3530.5	3248.8	3065.3	3141.3	3182.1	3456.4	3790.0
37.5°	3880.8	3890.1	4040.2	4066.1	3895.6	3515.7	3248.8	3215.5	3254.4	3504.6	3790.0
40°	4099.5	4136.5	4277.4	4364.5	4260.7	3867.8	3539.8	3339.6	3367.4	3612.1	3871.5
42.5°	4386.7	4418.2	4598.0	4711.1	4681.4	4316.3	3827.0	3599.1	3576.8	3791.8	3993.8
45°	4766.7	4772.2	4953.8	5109.5	5170.7	4785.2	4283.0	3927.1	3908.6	4101.3	4218.1
47.5°	5218.9	5213.3	5326.4	5493.2	5658.1	5344.9	4807.4	4425.7	4358.9	4544.3	4590.6
50°	5656.2	5632.1	5658.1	5871.2	6188.1	6045.4	5445.0	5035.4	4968.7	5070.6	5150.3
52.5°	5897.2	5926.8	5856.4	6138.1	6751.5	6873.9	6290.1	5763.7	5706.3	5756.3	5895.3
55°	5728.5	5789.7	5743.3	6010.2	6998.0	7883.9	7383.5	6607.0	6532.8	6514.3	6742.3
57.5°	5011.3	5122.5	5131.8	5554.3	6912.8	8666.0	8921.7	7602.2	7491.0	7302.0	7537.3
60°	3847.4	3958.6	4043.9	4544.3	6182.6	9133.0	10704.6	9018.1	8651.2	8161.9	8302.7
62.5°	2696.5	2772.5	2857.8	3165.4	4766.7	8858.7	12246.5	11012.2	10335.8	9068.1	9244.2
65°	1964.5	2023.8	2110.9	2292.5	2928.2	7329.8	12961.9	13380.8	12739.5	10220.9	10198.7
67.5°	1478.9	1516.0	1630.9	1921.9	2029.4	4527.6	12220.6	15882.7	15363.8	11501.5	10965.9
70°	1119.4	1150.9	1258.4	1656.8	1895.9	2427.8	9640.8	16440.5	16588.8	12937.8	11481.1
72.5°	771.0	806.2	926.6	1380.7	1805.1	1925.6	6051.0	14935.7	15497.2	13529.0	10928.8
75°	472.6	496.7	567.1	1047.1	1792.1	1882.9	3330.4	12239.1	12834.0	12500.4	9561.1
77.5°	333.6	331.7	344.7	613.4	1553.1	1894.1	2053.4	8968.1	9546.3	9212.7	6488.4
80°	242.8	244.6	257.6	367.0	1054.5	1925.6	1617.9	6006.5	6178.9	4803.7	2559.4
82.5°	146.4	153.8	185.3	248.3	633.8	1738.4	1495.6	3337.8	3122.8	1541.9	704.3
85°	77.8	77.8	109.3	157.5	337.3	1297.3	1440.0	1588.3	1330.7	478.1	261.3
87.5°	18.5	18.5	31.5	63.0	135.3	620.9	982.2	632.0	505.9	161.2	107.5
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°	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2
2.5°	3917.9	3895.6	3923.4	3867.8	3823.3	3825.2	3756.6	3752.9	3743.6	3695.5	3712.1
5°	3962.3	3943.8	3912.3	3851.1	3752.9	3654.7	3595.4	3519.4	3487.9	3471.2	3478.6
7.5°	4005.0	3971.6	3880.8	3795.5	3643.6	3458.2	3350.7	3248.8	3119.1	3104.3	3078.3
10°	4016.1	3945.7	3828.9	3647.3	3445.3	3239.6	2994.9	2805.9	2705.8	2628.0	2598.3
12.5°	3999.4	3969.7	3745.5	3512.0	3206.2	2883.7	2598.3	2331.4	2146.1	2049.7	2023.8
15°	3997.5	3945.7	3652.8	3306.3	2915.2	2494.5	2088.7	1768.0	1573.4	1493.8	1493.8
17.5°	3999.4	3875.2	3543.5	3098.7	2572.4	2003.4	1556.8	1293.6	1186.1	1175.0	1184.3
20°	3962.3	3823.3	3428.6	2854.1	2142.4	1504.9	1130.5	1023.0	1023.0	1037.8	1043.4
22.5°	3929.0	3745.5	3247.0	2552.0	1705.0	1089.7	919.2	887.7	922.9	948.9	960.0
25°	3882.6	3680.6	3061.6	2238.8	1297.3	878.5	798.8	806.2	839.5	885.9	882.2
27.5°	3815.9	3567.6	2841.1	1875.5	965.6	758.0	737.6	741.3	776.5	796.9	793.2
30°	3739.9	3452.7	2637.2	1514.1	765.4	695.0	693.1	702.4	708.0	719.1	717.2
32.5°	3643.6	3300.7	2420.4	1176.8	689.4	659.8	652.4	646.8	652.4	650.5	644.9
35°	3575.0	3219.2	2199.9	897.0	646.8	628.3	622.7	613.4	606.0	594.9	593.1
37.5°	3556.5	3137.6	1968.2	732.0	613.4	604.2	585.6	569.0	559.7	554.1	550.4
40°	3545.3	3083.9	1742.1	643.1	585.6	576.4	554.1	531.9	522.6	517.1	518.9
42.5°	3584.3	3054.2	1512.3	598.6	561.5	544.9	520.8	494.8	493.0	489.3	494.8
45°	3721.4	3091.3	1299.2	567.1	537.5	509.7	478.1	465.2	463.3	459.6	463.3
47.5°	4032.8	3184.0	1117.5	546.7	511.5	487.4	454.1	435.5	433.7	431.8	431.8
50°	4462.7	3469.4	965.6	522.6	494.8	461.5	430.0	409.6	405.9	398.5	398.5
52.5°	5137.3	3949.4	874.8	509.7	465.2	437.4	404.0	381.8	372.5	365.1	365.1
55°	5897.2	4544.3	858.1	487.4	433.7	407.7	378.1	355.8	346.6	337.3	333.6
57.5°	6762.7	5331.9	976.7	472.6	411.4	378.1	344.7	324.3	316.9	307.6	303.9
60°	7568.8	6117.7	1345.5	450.3	391.0	350.3	316.9	296.5	287.3	278.0	278.0
62.5°	8501.0	7090.7	1970.0	450.3	372.5	320.6	287.3	272.4	266.9	257.6	255.8
65°	9603.7	8097.0	2426.0	478.1	367.0	294.7	259.5	244.6	239.1	233.5	231.7
67.5°	10443.3	8675.2	2086.8	552.3	391.0	272.4	231.7	222.4	218.7	213.1	209.4
70°	10532.2	8323.1	1258.4	596.8	415.1	250.2	207.6	198.3	198.3	192.7	189.0
72.5°	9733.5	7385.4	847.0	531.9	376.2	224.2	183.5	176.1	172.4	168.6	166.8
75°	8145.2	6264.1	669.0	424.4	289.1	185.3	159.4	152.0	146.4	144.6	140.9
77.5°	5470.9	4071.7	494.8	331.7	213.1	150.1	133.4	126.0	120.5	118.6	113.1
80°	2101.6	1551.2	318.8	240.9	150.1	118.6	105.6	98.2	94.5	89.0	85.3
82.5°	619.0	502.2	177.9	148.3	96.4	81.5	76.0	70.4	64.9	59.3	57.5
85°	255.8	229.8	109.3	77.8	59.3	48.2	44.5	38.9	33.4	29.7	25.9
87.5°	118.6	98.2	50.0	29.7	20.4	11.1	5.6	1.9	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)