

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: P480143

Luminaire Tested: **IFLD-S-SA2D-750-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480143
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-750-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

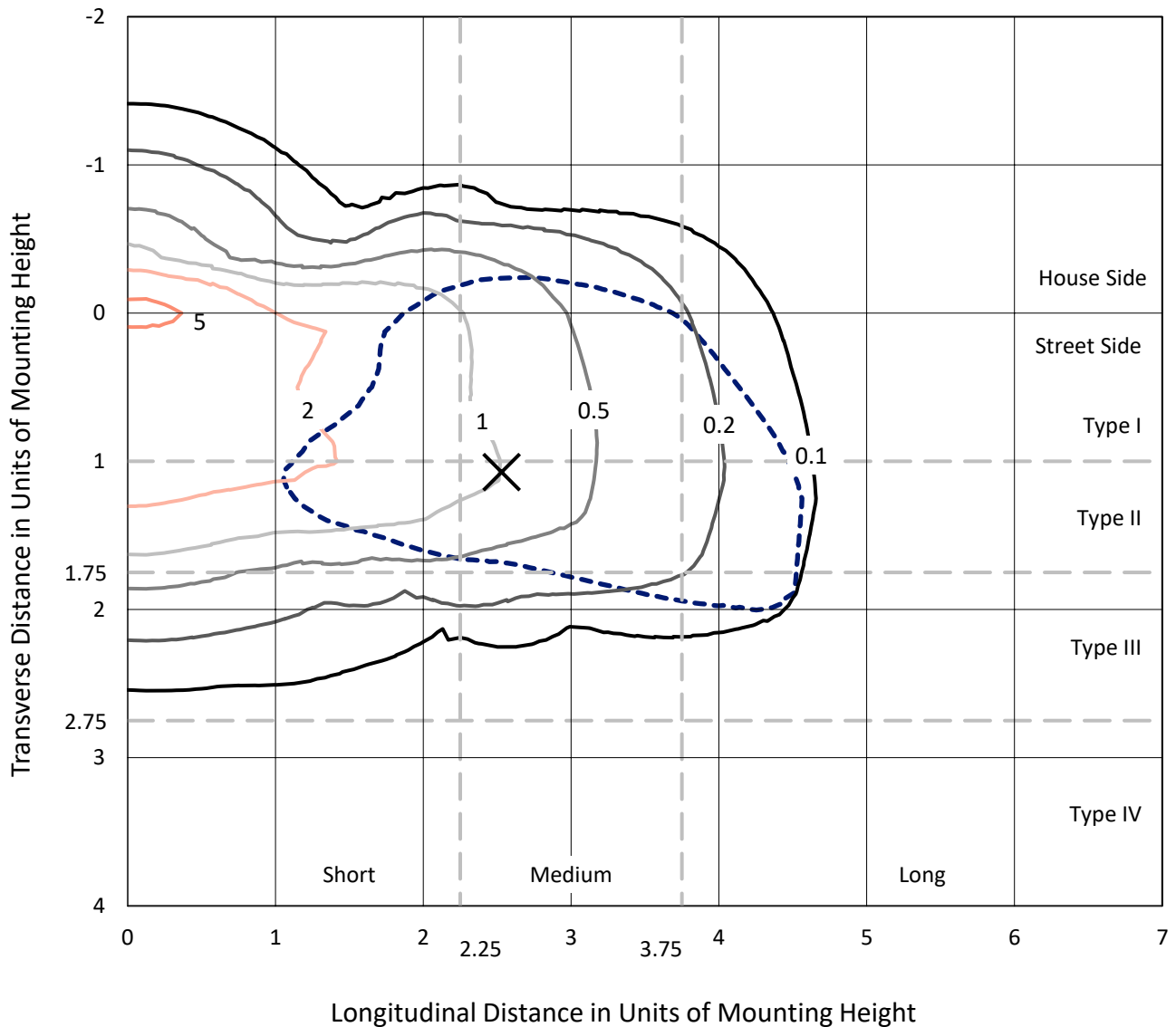
Lumens per Lamp: N/A
Luminaire Lumens: 15950.6 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 123.9
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

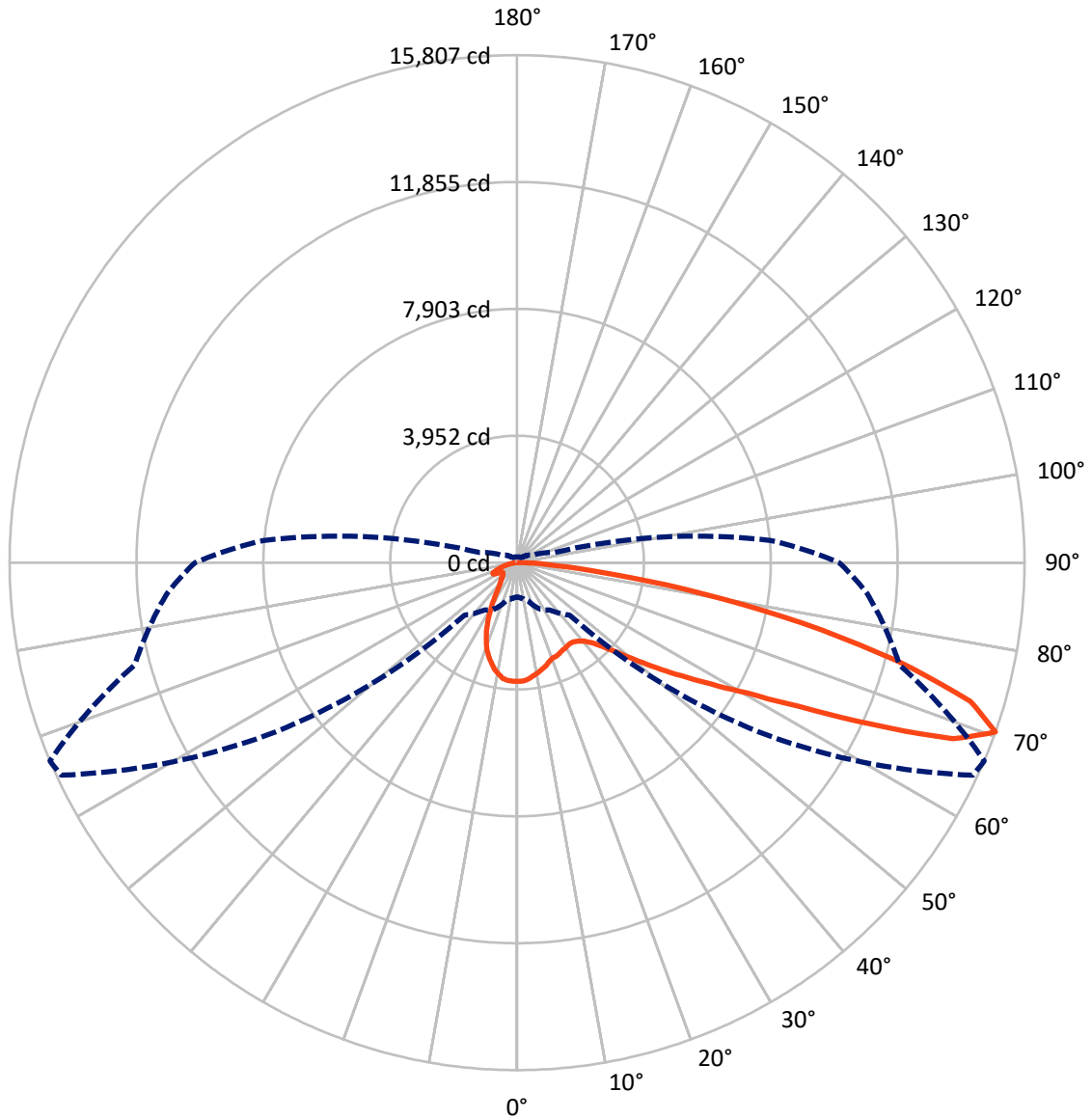
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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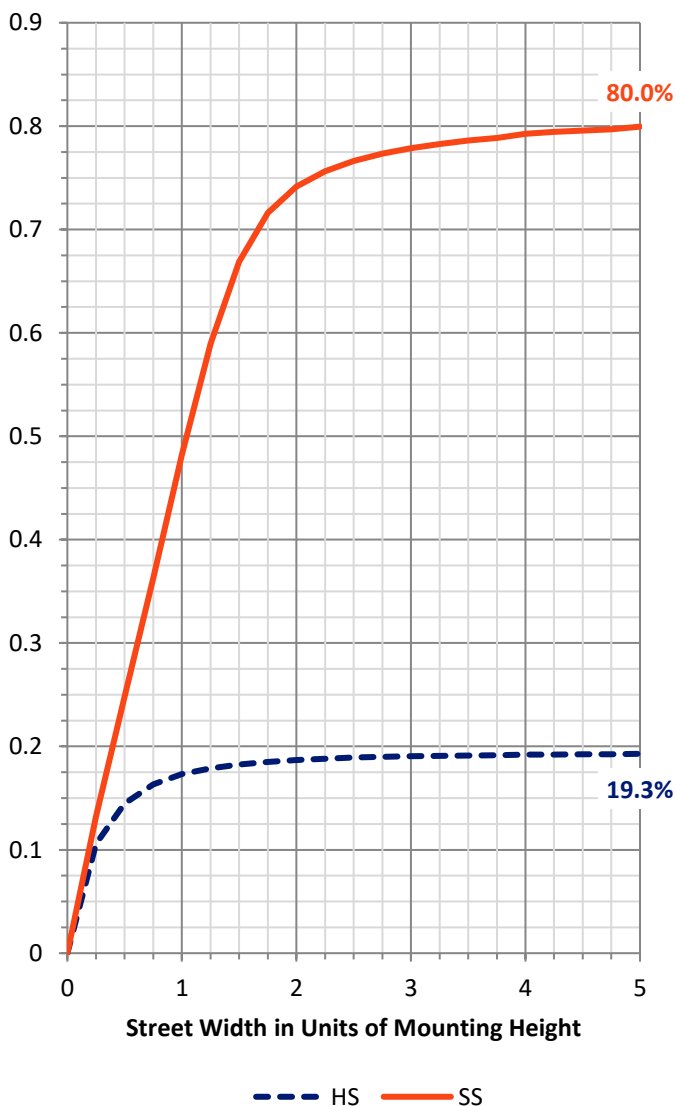
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3106.5	0.0	3106.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	12844.1	0.0	12844.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	15950.6	0.0	15950.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.2	2.0
10°-20°	771.6	4.8
20°-30°	1042.0	6.5
30°-40°	1394.3	8.7
40°-50°	2050.3	12.9
50°-60°	3195.9	20.0
60°-70°	3936.8	24.7
70°-80°	2781.7	17.4
80°-90°	455.9	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°	15950.6	100.0
0°-180°	15950.6	100.0

Coefficient of Utilization



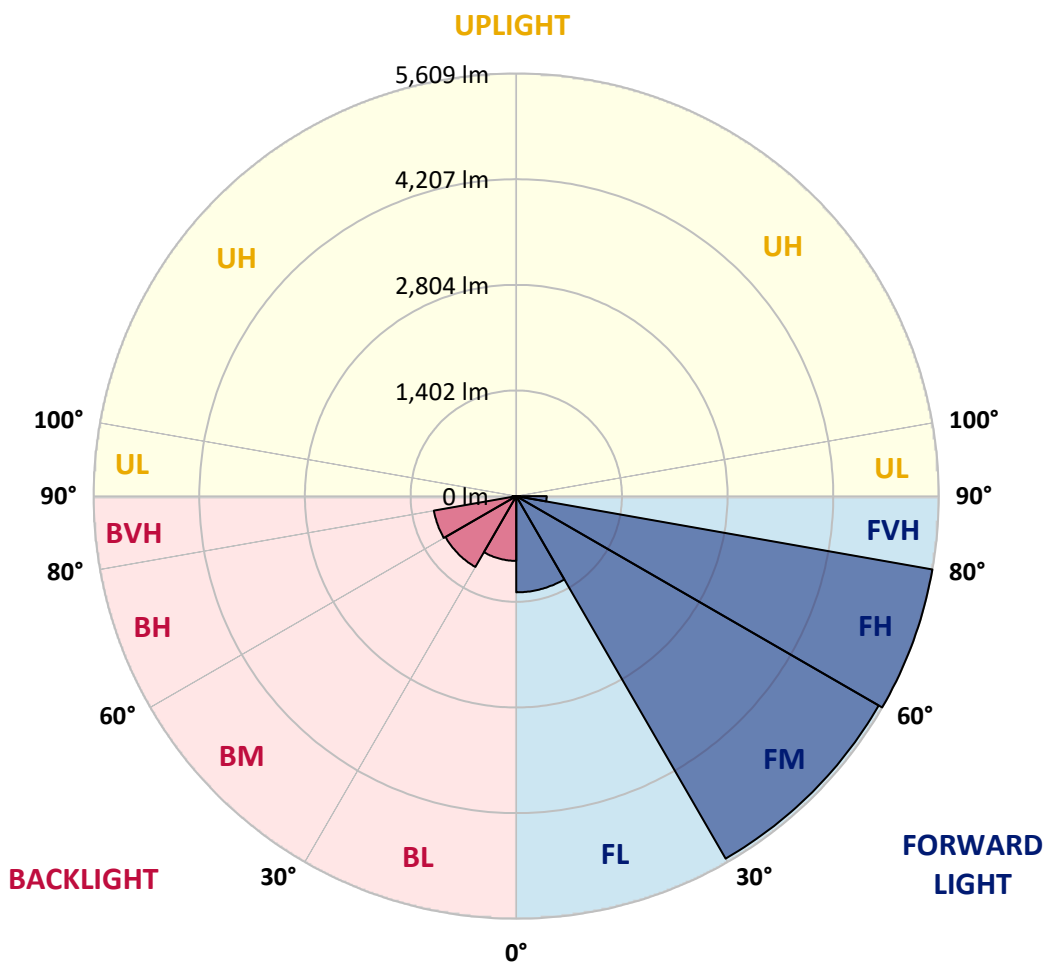
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1276.7	8.0			
FM (30°-60°)	5555.3	34.8			
FH (60°-80°)	5608.8	35.2			G3/7500
FVH (80°-90°)	403.3	2.5			G3/500
BL (0°-30°)	859.1	5.4	B2/1000		
BM (30°-60°)	1085.2	6.8	B2/2500		
BH (60°-80°)	1109.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	52.6	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°	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5
2.5°	3438.2	3477.1	3491.2	3512.4	3567.1	3607.8	3632.5	3660.7	3694.3	3722.5	3740.2
5°	3198.1	3219.3	3252.8	3275.8	3344.6	3454.1	3528.3	3648.4	3644.8	3689.0	3756.1
7.5°	2965.0	2986.2	3002.0	3048.0	3146.8	3245.7	3381.7	3576.0	3561.8	3664.3	3768.4
10°	2820.2	2804.3	2809.6	2887.3	2965.0	3076.2	3247.5	3445.3	3496.5	3655.4	3803.8
12.5°	2684.2	2666.5	2708.9	2758.3	2853.7	2954.4	3159.2	3337.6	3415.3	3623.6	3819.7
15°	2599.4	2587.1	2640.0	2661.2	2774.2	2894.3	3039.1	3256.3	3341.1	3584.8	3794.9
17.5°	2551.7	2562.3	2581.8	2627.7	2700.1	2802.5	2961.4	3201.6	3238.7	3537.1	3789.6
20°	2560.6	2572.9	2574.7	2594.1	2643.6	2723.0	2885.5	3143.3	3168.0	3528.3	3803.8
22.5°	2631.2	2613.5	2620.6	2608.2	2622.4	2684.2	2827.2	3065.6	3161.0	3454.1	3773.7
25°	2737.2	2712.4	2708.9	2666.5	2640.0	2657.7	2816.6	3046.2	3108.0	3431.2	3772.0
27.5°	2924.3	2887.3	2887.3	2823.7	2716.0	2687.7	2786.6	3014.4	3069.1	3410.0	3731.4
30°	3104.5	3104.5	3106.2	3016.2	2896.1	2756.6	2799.0	3002.0	3037.4	3346.4	3676.6
32.5°	3323.4	3318.1	3309.3	3265.2	3079.7	2871.4	2859.0	2986.2	3003.8	3325.2	3660.7
35°	3537.1	3523.0	3591.9	3553.0	3364.1	3095.6	2920.8	2993.2	3032.1	3293.4	3611.3
37.5°	3697.8	3706.6	3849.7	3874.4	3711.9	3349.9	3095.6	3063.9	3100.9	3339.3	3611.3
40°	3906.2	3941.5	4075.7	4158.7	4059.8	3685.5	3372.9	3182.2	3208.7	3441.8	3689.0
42.5°	4179.9	4209.9	4381.2	4488.9	4460.7	4112.8	3646.6	3429.4	3408.2	3613.0	3805.5
45°	4541.9	4547.2	4720.3	4868.6	4926.9	4559.6	4081.0	3742.0	3724.3	3908.0	4019.2
47.5°	4972.8	4967.5	5075.2	5234.2	5391.3	5092.9	4580.8	4217.0	4153.4	4330.0	4374.2
50°	5389.6	5366.6	5391.3	5594.4	5896.4	5760.4	5188.2	4798.0	4734.4	4831.5	4907.5
52.5°	5619.1	5647.4	5580.3	5848.7	6433.2	6549.8	5993.5	5492.0	5437.2	5484.9	5617.4
55°	5458.4	5516.7	5472.5	5726.8	6668.1	7512.2	7035.4	6295.5	6224.8	6207.2	6424.4
57.5°	4775.0	4881.0	4889.8	5292.4	6586.8	8257.4	8501.1	7243.8	7137.8	6957.7	7181.9
60°	3666.0	3772.0	3853.2	4330.0	5891.1	8702.4	10199.9	8592.9	8243.3	7777.1	7911.3
62.5°	2569.4	2641.8	2723.0	3016.2	4541.9	8441.0	11669.1	10493.0	9848.5	8640.6	8808.3
65°	1871.9	1928.4	2011.4	2184.4	2790.1	6984.2	12350.8	12749.9	12138.9	9739.0	9717.8
67.5°	1409.2	1444.5	1554.0	1831.2	1933.7	4314.1	11644.4	15133.8	14639.4	10959.2	10448.9
70°	1066.6	1096.6	1199.1	1578.7	1806.5	2313.3	9186.3	15665.4	15806.6	12327.8	10939.8
72.5°	734.6	768.2	883.0	1315.6	1720.0	1834.8	5765.7	14231.5	14766.5	12891.1	10413.6
75°	450.3	473.3	540.4	997.7	1707.6	1794.2	3173.3	11662.1	12228.9	11911.0	9110.3
77.5°	317.9	316.1	328.5	584.5	1479.8	1804.8	1956.6	8545.2	9096.2	8778.3	6182.4
80°	231.3	233.1	245.5	349.6	1004.8	1834.8	1541.6	5723.3	5887.5	4577.2	2438.7
82.5°	139.5	146.6	176.6	236.6	603.9	1656.4	1425.1	3180.4	2975.6	1469.2	671.0
85°	74.2	74.2	104.2	150.1	321.4	1236.1	1372.1	1513.4	1267.9	455.6	249.0
87.5°	17.7	17.7	30.0	60.0	128.9	591.6	935.9	602.2	482.1	153.6	102.4
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°	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5
2.5°	3733.1	3711.9	3738.4	3685.5	3643.1	3644.8	3579.5	3576.0	3567.1	3521.2	3537.1
5°	3775.5	3757.9	3727.8	3669.6	3576.0	3482.4	3425.9	3353.5	3323.4	3307.5	3314.6
7.5°	3816.1	3784.3	3697.8	3616.6	3471.8	3295.2	3192.8	3095.6	2972.0	2957.9	2933.2
10°	3826.7	3759.6	3648.4	3475.3	3282.8	3086.8	2853.7	2673.6	2578.2	2504.1	2475.8
12.5°	3810.8	3782.6	3568.9	3346.4	3055.0	2747.8	2475.8	2221.5	2044.9	1953.1	1928.4
15°	3809.1	3759.6	3480.6	3150.4	2777.8	2376.9	1990.2	1684.7	1499.3	1423.3	1423.3
17.5°	3810.8	3692.5	3376.4	2952.6	2451.1	1908.9	1483.4	1232.6	1130.2	1119.6	1128.4
20°	3775.5	3643.1	3266.9	2719.5	2041.4	1433.9	1077.2	974.8	974.8	988.9	994.2
22.5°	3743.7	3568.9	3093.9	2431.7	1624.6	1038.4	875.9	845.9	879.4	904.1	914.7
25°	3699.6	3507.1	2917.3	2133.2	1236.1	837.0	761.1	768.2	800.0	844.1	840.6
27.5°	3636.0	3399.4	2707.1	1787.1	920.0	722.3	702.8	706.4	739.9	759.3	755.8
30°	3563.6	3289.9	2512.9	1442.7	729.3	662.2	660.4	669.3	674.6	685.2	683.4
32.5°	3471.8	3145.1	2306.3	1121.4	656.9	628.7	621.6	616.3	621.6	619.8	614.5
35°	3406.4	3067.4	2096.1	854.7	616.3	598.6	593.3	584.5	577.5	566.9	565.1
37.5°	3388.8	2989.7	1875.4	697.5	584.5	575.7	558.0	542.1	533.3	528.0	524.5
40°	3378.2	2938.5	1660.0	612.8	558.0	549.2	528.0	506.8	498.0	492.7	494.5
42.5°	3415.3	2910.2	1441.0	570.4	535.1	519.2	496.2	471.5	469.7	466.2	471.5
45°	3545.9	2945.5	1237.9	540.4	512.1	485.6	455.6	443.2	441.5	437.9	441.5
47.5°	3842.6	3033.8	1064.8	520.9	487.4	464.4	432.6	415.0	413.2	411.5	411.5
50°	4252.3	3305.8	920.0	498.0	471.5	439.7	409.7	390.3	386.7	379.7	379.7
52.5°	4895.1	3763.1	833.5	485.6	443.2	416.8	385.0	363.8	354.9	347.9	347.9
55°	5619.1	4330.0	817.6	464.4	413.2	388.5	360.2	339.1	330.2	321.4	317.9
57.5°	6443.8	5080.5	930.6	450.3	392.0	360.2	328.5	309.0	302.0	293.1	289.6
60°	7212.0	5829.3	1282.0	429.1	372.6	333.8	302.0	282.5	273.7	264.9	264.9
62.5°	8100.2	6756.4	1877.2	429.1	354.9	305.5	273.7	259.6	254.3	245.5	243.7
65°	9150.9	7715.3	2311.6	455.6	349.6	280.8	247.2	233.1	227.8	222.5	220.7
67.5°	9950.9	8266.2	1988.4	526.2	372.6	259.6	220.7	211.9	208.4	203.1	199.5
70°	10035.7	7930.7	1199.1	568.6	395.6	238.4	197.8	189.0	189.0	183.7	180.1
72.5°	9274.5	7037.1	807.0	506.8	358.5	213.7	174.8	167.8	164.2	160.7	158.9
75°	7761.2	5968.8	637.5	404.4	275.5	176.6	151.9	144.8	139.5	137.7	134.2
77.5°	5213.0	3879.7	471.5	316.1	203.1	143.0	127.1	120.1	114.8	113.0	107.7
80°	2002.5	1478.1	303.7	229.6	143.0	113.0	100.7	93.6	90.1	84.8	81.2
82.5°	589.8	478.6	169.5	141.3	91.8	77.7	72.4	67.1	61.8	56.5	54.7
85°	243.7	219.0	104.2	74.2	56.5	45.9	42.4	37.1	31.8	28.3	24.7
87.5°	113.0	93.6	47.7	28.3	19.4	10.6	5.3	1.8	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)