

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: P480107

Luminaire Tested: **IFLD-S-SA3B-740-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480107  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-740-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

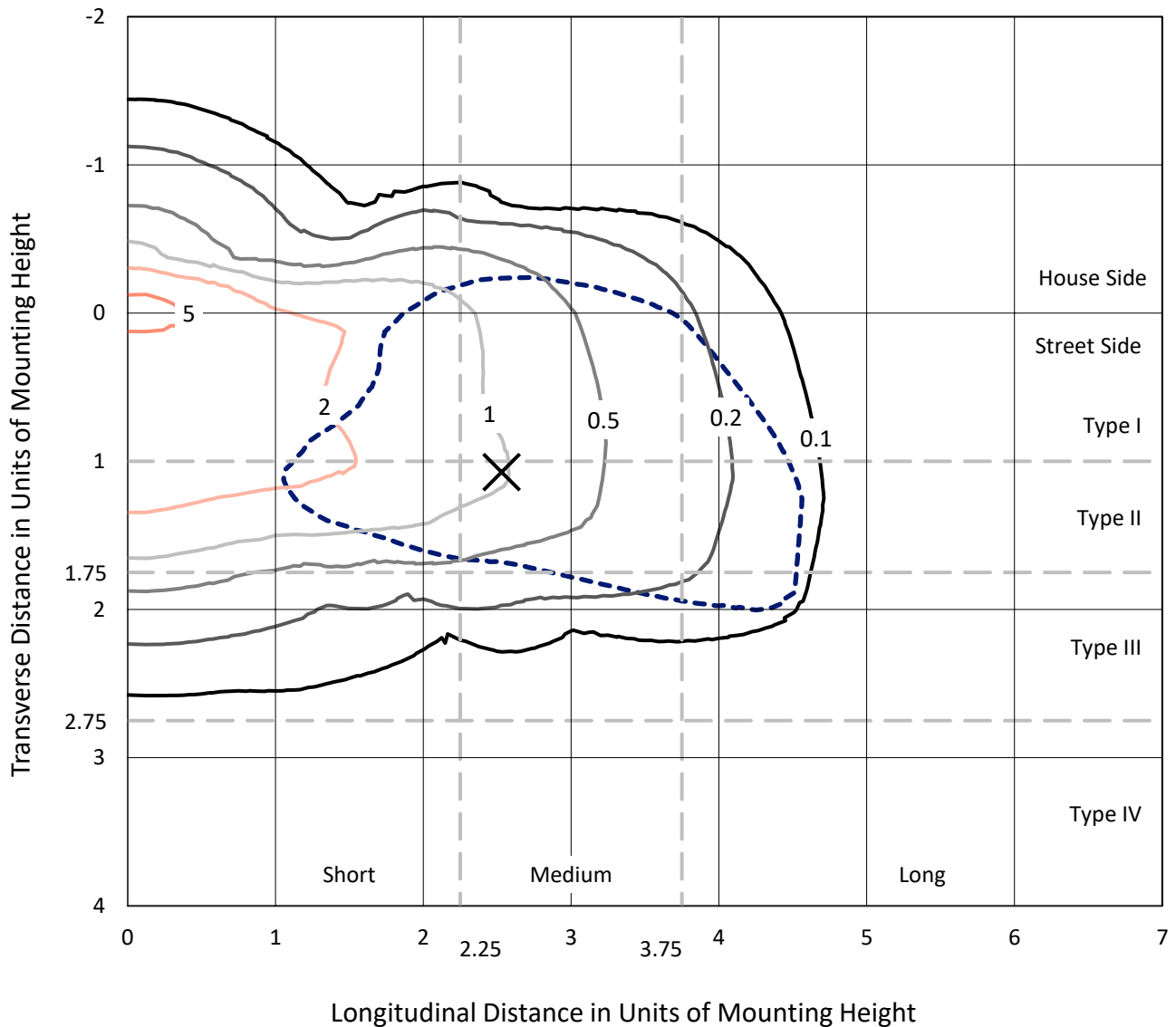
Lumens per Lamp: N/A  
Luminaire Lumens: 16965.8 lumens  
Efficiency: N/A  
Efficacy: 138.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 122.4  
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

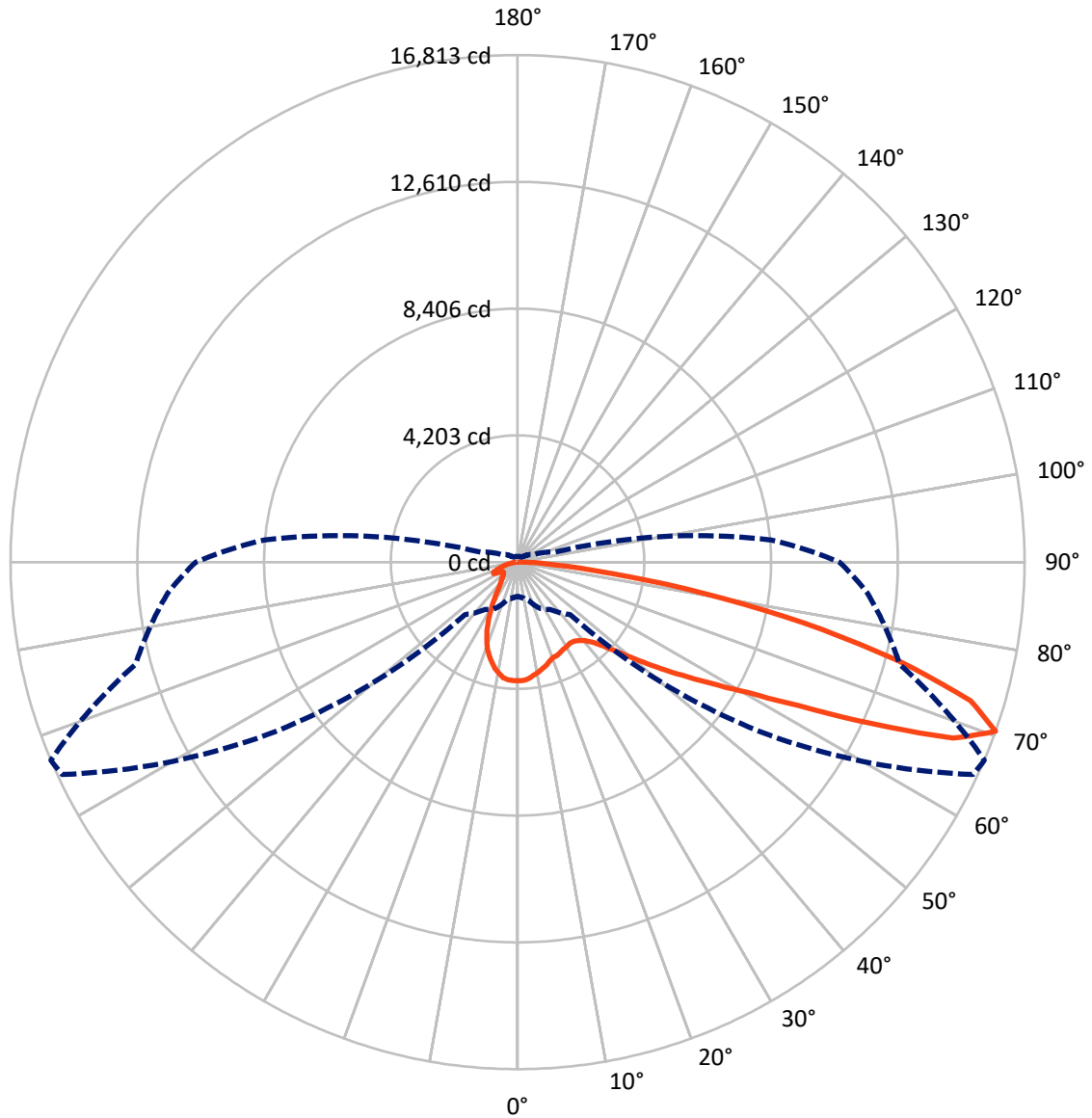
× Max cd  
 - - - 1/2 Max cd



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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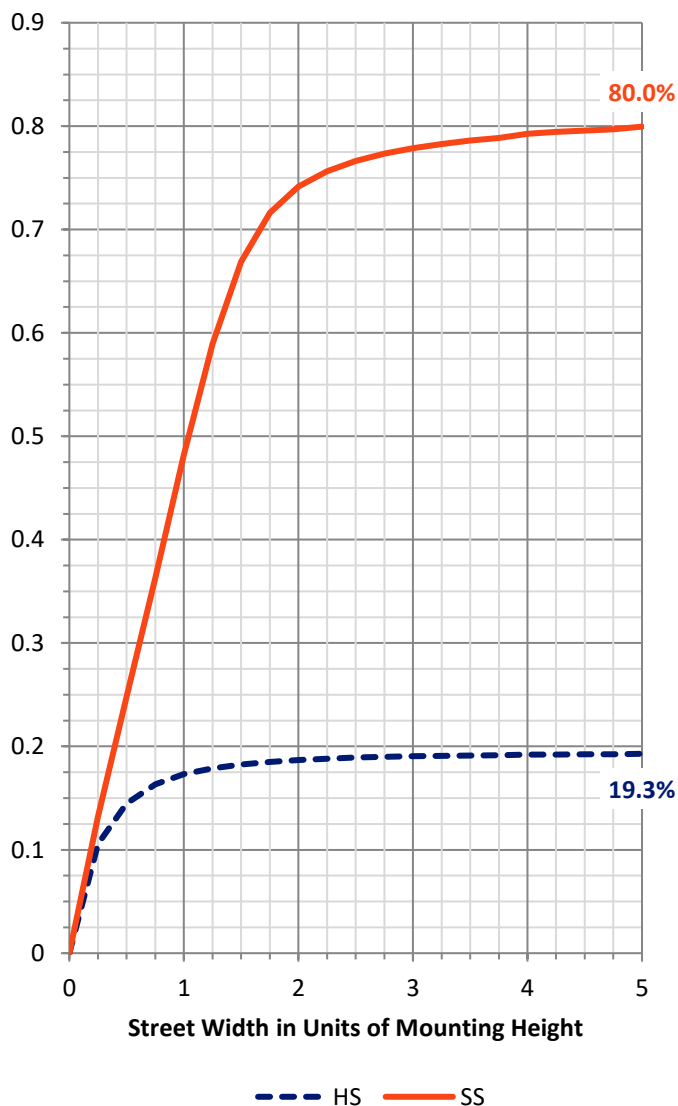
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3304.2	0.0	3304.2
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	13661.6	0.0	13661.6
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	16965.8	0.0	16965.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.7	2.0
10°-20°	820.7	4.8
20°-30°	1108.3	6.5
30°-40°	1483.0	8.7
40°-50°	2180.8	12.9
50°-60°	3399.3	20.0
60°-70°	4187.3	24.7
70°-80°	2958.7	17.4
80°-90°	484.9	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°	16965.8	100.0
0°-180°	16965.8	100.0

**Coefficient of Utilization**



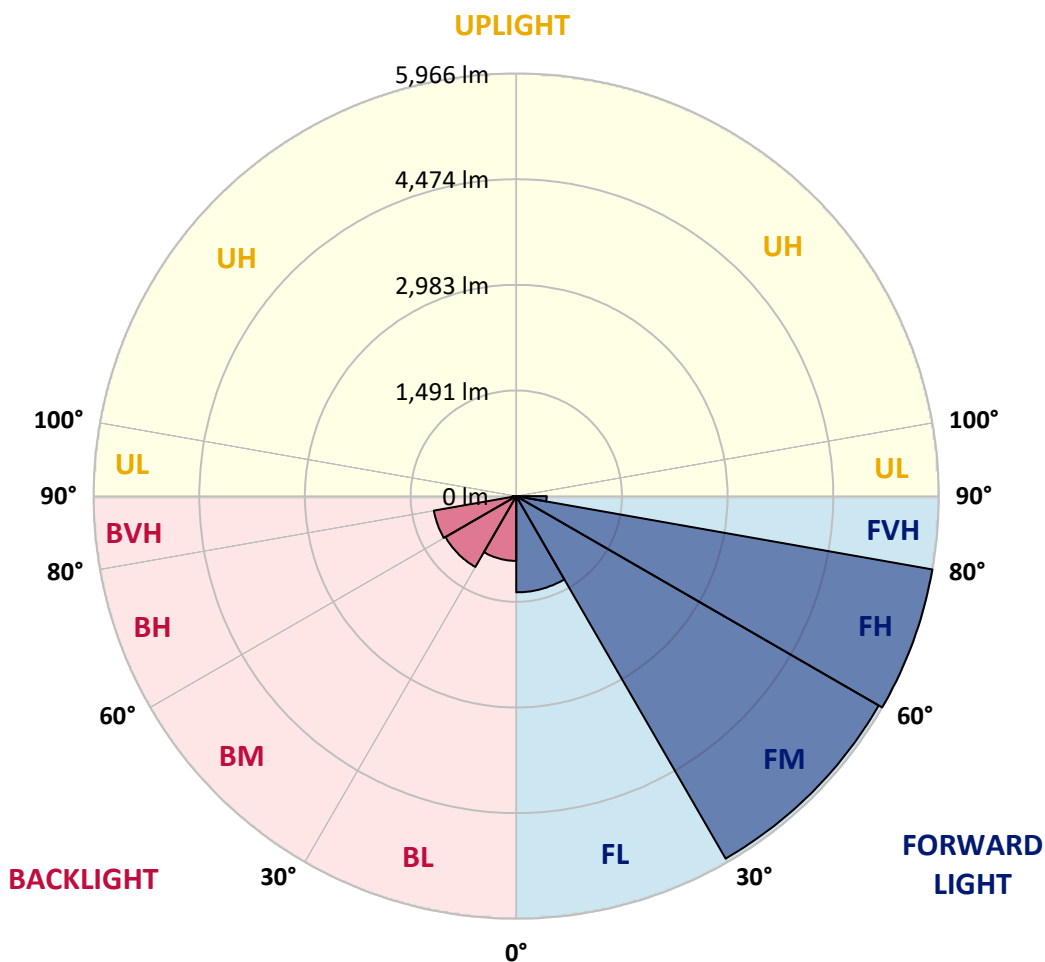
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1358.0	8.0			
FM (30°-60°)	5908.8	34.8			
FH (60°-80°)	5965.7	35.2			G3/7500
FVH (80°-90°)	429.0	2.5			G3/500
BL (0°-30°)	913.7	5.4	B2/1000		
BM (30°-60°)	1154.2	6.8	B2/2500		
BH (60°-80°)	1180.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	55.9	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°	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5
2.5°	3657.1	3698.4	3713.4	3735.9	3794.2	3837.4	3863.7	3893.7	3929.4	3959.5	3978.2
5°	3401.6	3424.1	3459.8	3484.2	3557.5	3674.0	3752.8	3880.6	3876.8	3923.8	3995.1
7.5°	3153.7	3176.2	3193.1	3241.9	3347.1	3452.3	3596.9	3803.6	3788.5	3897.5	4008.3
10°	2999.6	2982.7	2988.4	3071.0	3153.7	3272.0	3454.2	3664.6	3719.0	3888.1	4045.9
12.5°	2855.0	2836.2	2881.3	2933.9	3035.3	3142.4	3360.3	3550.0	3632.6	3854.3	4062.8
15°	2764.9	2751.7	2808.1	2830.6	2950.8	3078.5	3232.6	3463.6	3553.7	3813.0	4036.5
17.5°	2714.1	2725.4	2746.1	2794.9	2871.9	2980.9	3149.9	3405.4	3444.8	3762.2	4030.8
20°	2723.5	2736.7	2738.6	2759.2	2811.8	2896.3	3069.1	3343.4	3369.7	3752.8	4045.9
22.5°	2798.7	2779.9	2787.4	2774.3	2789.3	2855.0	3007.2	3260.7	3362.2	3674.0	4013.9
25°	2911.4	2885.1	2881.3	2836.2	2808.1	2826.8	2995.9	3240.1	3305.8	3649.5	4012.1
27.5°	3110.5	3071.0	3071.0	3003.4	2888.8	2858.8	2964.0	3206.3	3264.5	3627.0	3968.9
30°	3302.1	3302.1	3303.9	3208.1	3080.4	2932.0	2977.1	3193.1	3230.7	3559.4	3910.6
32.5°	3535.0	3529.3	3519.9	3473.0	3275.8	3054.1	3041.0	3176.2	3195.0	3536.8	3893.7
35°	3762.2	3747.2	3820.5	3779.1	3578.2	3292.7	3106.7	3183.7	3225.0	3503.0	3841.1
37.5°	3933.2	3942.6	4094.7	4121.0	3948.2	3563.1	3292.7	3258.9	3298.3	3551.9	3841.1
40°	4154.8	4192.4	4335.1	4423.4	4318.2	3920.0	3587.6	3384.7	3412.9	3660.8	3923.8
42.5°	4445.9	4477.9	4660.1	4774.6	4744.6	4374.6	3878.7	3647.7	3625.1	3843.0	4047.7
45°	4831.0	4836.6	5020.7	5178.5	5240.5	4849.8	4340.8	3980.1	3961.3	4156.7	4275.0
47.5°	5289.3	5283.7	5398.2	5567.3	5734.5	5417.0	4872.3	4485.4	4417.8	4605.6	4652.6
50°	5732.6	5708.2	5734.5	5950.5	6271.6	6127.0	5518.5	5103.3	5035.7	5139.0	5219.8
52.5°	5976.8	6006.8	5935.4	6220.9	6842.7	6966.6	6375.0	5841.5	5783.3	5834.0	5974.9
55°	5805.8	5867.8	5820.9	6091.3	7092.5	7990.3	7483.2	6696.1	6621.0	6602.2	6833.3
57.5°	5078.9	5191.6	5201.0	5629.3	7006.1	8782.9	9042.1	7704.8	7592.1	7400.5	7639.1
60°	3899.4	4012.1	4098.5	4605.6	6266.0	9256.3	10849.1	9139.8	8767.9	8272.0	8414.8
62.5°	2732.9	2809.9	2896.3	3208.1	4831.0	8978.3	12411.8	11160.9	10475.3	9190.5	9369.0
65°	1991.0	2051.1	2139.4	2323.5	2967.7	7428.7	13136.8	13561.3	12911.4	10358.8	10336.3
67.5°	1498.9	1536.5	1652.9	1947.8	2056.7	4588.7	12385.5	16097.0	15571.1	11656.7	11113.9
70°	1134.5	1166.4	1275.4	1679.2	1921.5	2460.6	9770.9	16662.4	16812.7	13112.4	11636.1
72.5°	781.4	817.1	939.2	1399.3	1829.5	1951.6	6132.7	15137.2	15706.4	13711.6	11076.3
75°	479.0	503.4	574.8	1061.2	1816.3	1908.4	3375.3	12404.3	13007.2	12669.1	9690.2
77.5°	338.1	336.2	349.4	621.7	1574.0	1919.6	2081.2	9089.1	9675.1	9337.0	6575.9
80°	246.1	247.9	261.1	371.9	1068.8	1951.6	1639.8	6087.6	6262.3	4868.6	2593.9
82.5°	148.4	155.9	187.8	251.7	642.4	1761.8	1515.8	3382.8	3164.9	1562.7	713.8
85°	78.9	78.9	110.8	159.7	341.9	1314.8	1459.4	1609.7	1348.6	484.6	264.8
87.5°	18.8	18.8	31.9	63.9	137.1	629.2	995.5	640.5	512.8	163.4	108.9
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°	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5
2.5°	3970.7	3948.2	3976.4	3920.0	3874.9	3876.8	3807.3	3803.6	3794.2	3745.3	3762.2
5°	4015.8	3997.0	3965.1	3903.1	3803.6	3704.0	3643.9	3566.9	3535.0	3518.1	3525.6
7.5°	4059.0	4025.2	3933.2	3846.8	3692.7	3504.9	3396.0	3292.7	3161.2	3146.2	3119.9
10°	4070.3	3998.9	3880.6	3696.5	3491.8	3283.3	3035.3	2843.7	2742.3	2663.4	2633.4
12.5°	4053.4	4023.3	3796.0	3559.4	3249.5	2922.6	2633.4	2362.9	2175.1	2077.4	2051.1
15°	4051.5	3998.9	3702.1	3350.9	2954.6	2528.2	2116.8	1791.9	1594.7	1513.9	1513.9
17.5°	4053.4	3927.5	3591.3	3140.5	2607.1	2030.4	1577.8	1311.1	1202.1	1190.8	1200.2
20°	4015.8	3874.9	3474.9	2892.6	2171.3	1525.2	1145.8	1036.8	1036.8	1051.8	1057.5
22.5°	3982.0	3796.0	3290.8	2586.4	1728.0	1104.4	931.6	899.7	935.4	961.7	973.0
25°	3935.0	3730.3	3103.0	2269.0	1314.8	890.3	809.5	817.1	850.9	897.8	894.1
27.5°	3867.4	3615.7	2879.4	1900.8	978.6	768.2	747.6	751.3	787.0	807.7	803.9
30°	3790.4	3499.3	2672.8	1534.6	775.7	704.4	702.5	711.9	717.5	728.8	726.9
32.5°	3692.7	3345.3	2453.1	1192.7	698.7	668.7	661.2	655.5	661.2	659.3	653.6
35°	3623.2	3262.6	2229.5	909.1	655.5	636.7	631.1	621.7	614.2	602.9	601.1
37.5°	3604.5	3180.0	1994.8	741.9	621.7	612.3	593.5	576.6	567.2	561.6	557.9
40°	3593.2	3125.5	1765.6	651.8	593.5	584.2	561.6	539.1	529.7	524.0	525.9
42.5°	3632.6	3095.4	1532.7	606.7	569.1	552.2	527.8	501.5	499.6	495.9	501.5
45°	3771.6	3133.0	1316.7	574.8	544.7	516.5	484.6	471.5	469.6	465.8	469.6
47.5°	4087.2	3226.9	1132.6	554.1	518.4	494.0	460.2	441.4	439.5	437.6	437.6
50°	4523.0	3516.2	978.6	529.7	501.5	467.7	435.8	415.1	411.3	403.8	403.8
52.5°	5206.7	4002.7	886.6	516.5	471.5	443.3	409.5	386.9	377.5	370.0	370.0
55°	5976.8	4605.6	869.7	494.0	439.5	413.2	383.2	360.6	351.2	341.9	338.1
57.5°	6853.9	5403.9	989.9	479.0	417.0	383.2	349.4	328.7	321.2	311.8	308.0
60°	7671.0	6200.3	1363.6	456.4	396.3	355.0	321.2	300.5	291.1	281.7	281.7
62.5°	8615.8	7186.4	1996.6	456.4	377.5	324.9	291.1	276.1	270.5	261.1	259.2
65°	9733.4	8206.3	2458.7	484.6	371.9	298.6	263.0	247.9	242.3	236.7	234.8
67.5°	10584.2	8792.3	2115.0	559.7	396.3	276.1	234.8	225.4	221.6	216.0	212.2
70°	10674.4	8435.5	1275.4	604.8	420.7	253.6	210.4	201.0	201.0	195.3	191.6
72.5°	9864.8	7485.0	858.4	539.1	381.3	227.3	186.0	178.4	174.7	170.9	169.0
75°	8255.1	6348.7	678.1	430.1	293.0	187.8	161.5	154.0	148.4	146.5	142.8
77.5°	5544.7	4126.6	501.5	336.2	216.0	152.1	135.2	127.7	122.1	120.2	114.6
80°	2130.0	1572.1	323.1	244.2	152.1	120.2	107.1	99.5	95.8	90.2	86.4
82.5°	627.4	509.0	180.3	150.3	97.7	82.6	77.0	71.4	65.7	60.1	58.2
85°	259.2	232.9	110.8	78.9	60.1	48.8	45.1	39.4	33.8	30.1	26.3
87.5°	120.2	99.5	50.7	30.1	20.7	11.3	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)