

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: P480225

Luminaire Tested: **IFLD-S-SA3C-827-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480225
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-827-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

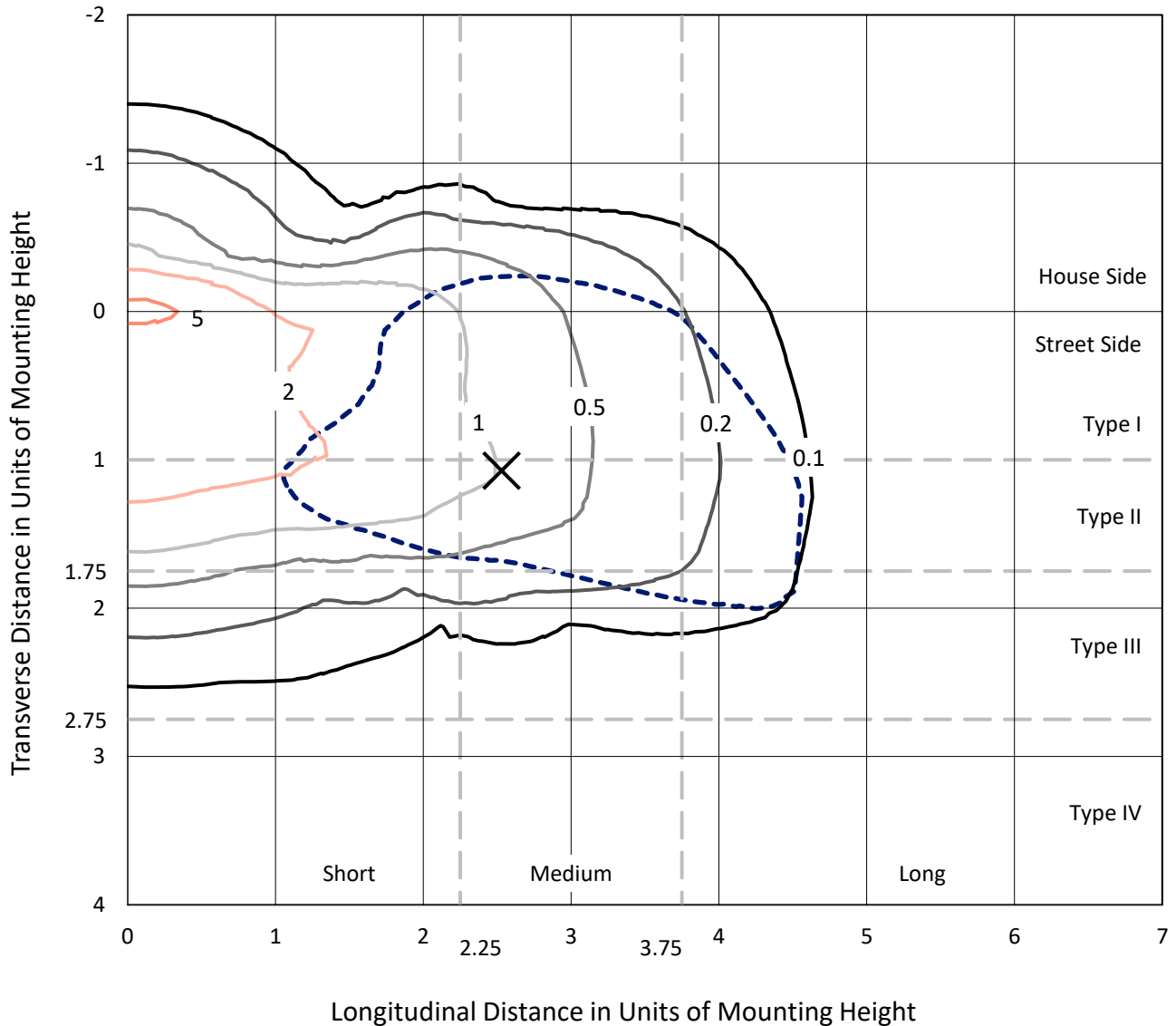
Lumens per Lamp: N/A
Luminaire Lumens: 15525.1 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.8
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

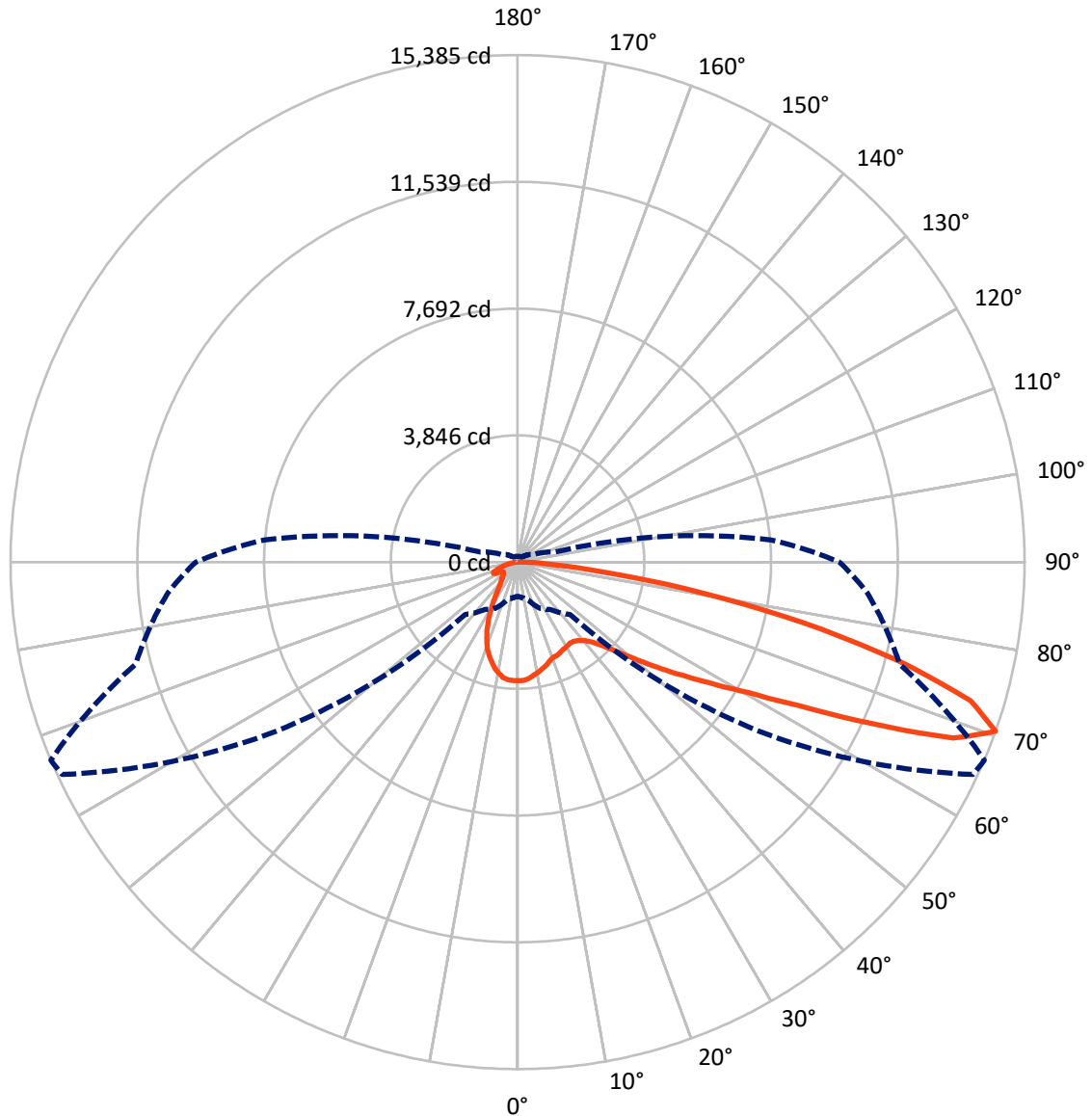
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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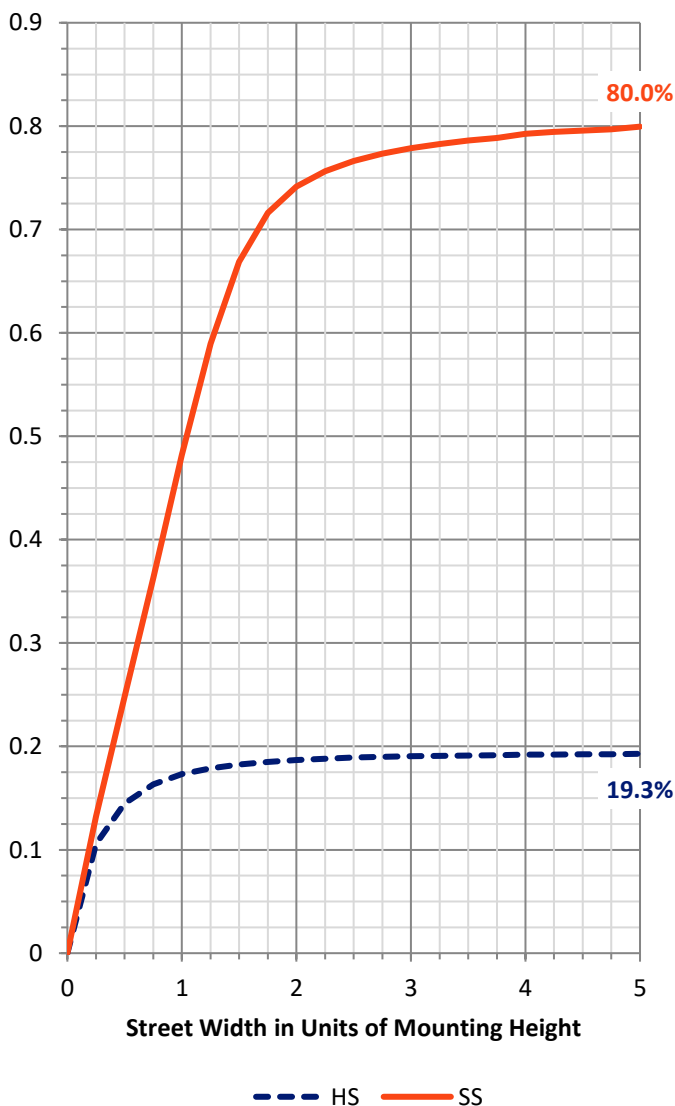
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3023.7	0.0	3023.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	12501.4	0.0	12501.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	15525.1	0.0	15525.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.6	2.0
10°-20°	751.0	4.8
20°-30°	1014.2	6.5
30°-40°	1357.1	8.7
40°-50°	1995.6	12.9
50°-60°	3110.6	20.0
60°-70°	3831.7	24.7
70°-80°	2707.5	17.4
80°-90°	443.8	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°	15525.1	100.0
0°-180°	15525.1	100.0

Coefficient of Utilization

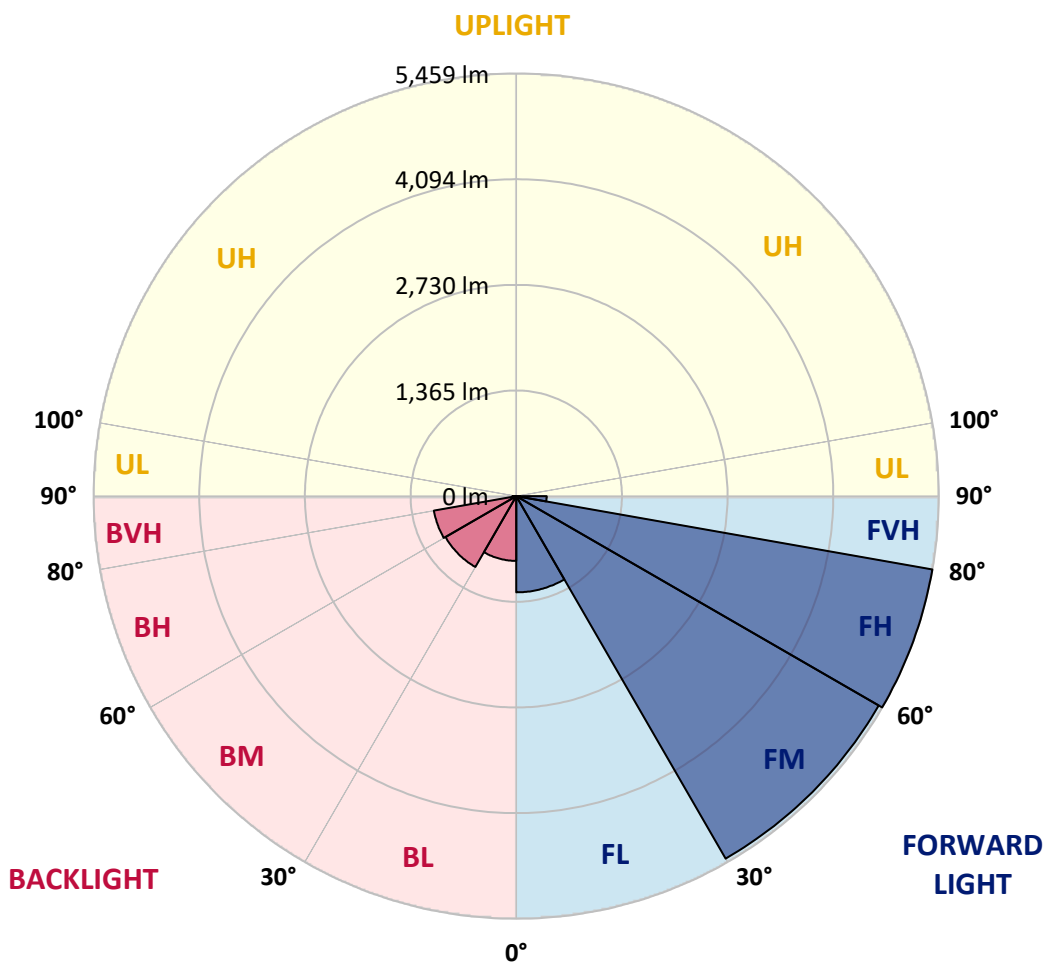


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1242.7	8.0			
FM (30°-60°)	5407.0	34.8			
FH (60°-80°)	5459.1	35.2			G3/7500
FVH (80°-90°)	392.6	2.5			G3/500
BL (0°-30°)	836.1	5.4	B2/1000		
BM (30°-60°)	1056.2	6.8	B2/2500		
BH (60°-80°)	1080.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	51.2	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°	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0
2.5°	3346.5	3384.3	3398.1	3418.7	3472.0	3511.5	3535.6	3563.1	3595.7	3623.2	3640.4
5°	3112.7	3133.4	3166.0	3188.4	3255.4	3362.0	3434.2	3551.0	3547.6	3590.6	3655.9
7.5°	2885.9	2906.5	2922.0	2966.6	3062.9	3159.1	3291.5	3480.6	3466.8	3566.5	3667.9
10°	2744.9	2729.4	2734.6	2810.2	2885.9	2994.1	3160.9	3353.4	3403.2	3557.9	3702.3
12.5°	2612.6	2595.4	2636.6	2684.8	2777.6	2875.5	3074.9	3248.5	3324.2	3527.0	3717.8
15°	2530.1	2518.0	2569.6	2590.2	2700.2	2817.1	2958.0	3169.5	3252.0	3489.2	3693.7
17.5°	2483.7	2494.0	2512.9	2557.6	2628.0	2727.7	2882.4	3116.2	3152.3	3442.7	3688.5
20°	2492.3	2504.3	2506.0	2524.9	2573.0	2650.4	2808.5	3059.5	3083.5	3434.2	3702.3
22.5°	2561.0	2543.8	2550.7	2538.7	2552.4	2612.6	2751.8	2983.8	3076.6	3362.0	3673.1
25°	2664.1	2640.1	2636.6	2595.4	2569.6	2586.8	2741.5	2964.9	3025.1	3339.6	3671.3
27.5°	2846.3	2810.2	2810.2	2748.4	2643.5	2616.0	2712.3	2934.0	2987.3	3319.0	3631.8
30°	3021.6	3021.6	3023.4	2935.7	2818.8	2683.0	2724.3	2922.0	2956.3	3257.1	3578.5
32.5°	3234.8	3229.6	3221.0	3178.1	2997.6	2794.8	2782.7	2906.5	2923.7	3236.5	3563.1
35°	3442.7	3429.0	3496.0	3458.2	3274.3	3013.0	2842.9	2913.4	2951.2	3205.6	3514.9
37.5°	3599.2	3607.8	3747.0	3771.0	3612.9	3260.6	3013.0	2982.1	3018.2	3250.2	3514.9
40°	3802.0	3836.4	3967.0	4047.8	3951.5	3587.1	3282.9	3097.3	3123.1	3349.9	3590.6
42.5°	4068.4	4097.6	4264.3	4369.2	4341.7	4003.1	3549.3	3337.9	3317.3	3516.7	3704.0
45°	4420.7	4425.9	4594.3	4738.7	4795.4	4437.9	3972.1	3642.1	3624.9	3803.7	3912.0
47.5°	4840.1	4835.0	4939.8	5094.5	5247.5	4957.0	4458.6	4104.5	4042.6	4214.5	4257.5
50°	5245.8	5223.4	5247.5	5445.1	5739.1	5606.7	5049.8	4670.0	4608.1	4702.6	4776.5
52.5°	5469.2	5496.7	5431.4	5692.7	6261.6	6375.0	5833.6	5345.5	5292.2	5338.6	5467.5
55°	5312.8	5369.5	5326.5	5574.1	6490.2	7311.8	6847.7	6127.5	6058.8	6041.6	6253.0
57.5°	4647.6	4750.8	4759.3	5151.2	6411.1	8037.1	8274.3	7050.5	6947.4	6772.1	6990.3
60°	3568.2	3671.3	3750.4	4214.5	5733.9	8470.2	9927.8	8363.7	8023.3	7569.6	7700.2
62.5°	2500.8	2571.3	2650.4	2935.7	4420.7	8215.8	11357.8	10213.1	9585.7	8410.1	8573.4
65°	1821.9	1876.9	1957.7	2126.2	2715.7	6797.8	12021.3	12409.7	11815.0	9479.2	9458.5
67.5°	1371.6	1406.0	1512.5	1782.4	1882.1	4199.0	11333.7	14730.1	14248.8	10666.8	10170.1
70°	1038.2	1067.4	1167.1	1536.6	1758.3	2251.6	8941.2	15247.4	15384.9	11998.9	10647.9
72.5°	715.0	747.7	859.4	1280.5	1674.1	1785.8	5611.9	13851.8	14372.6	12547.2	10135.7
75°	438.3	460.6	526.0	971.1	1662.1	1746.3	3088.7	11350.9	11902.7	11593.3	8867.3
77.5°	309.4	307.7	319.7	568.9	1440.4	1756.6	1904.4	8317.3	8853.5	8544.1	6017.5
80°	225.2	226.9	238.9	340.3	978.0	1785.8	1500.5	5570.6	5730.5	4455.1	2373.7
82.5°	135.8	142.7	171.9	230.3	587.8	1612.2	1387.1	3095.6	2896.2	1430.0	653.1
85°	72.2	72.2	101.4	146.1	312.8	1203.2	1335.5	1473.0	1234.1	443.4	242.4
87.5°	17.2	17.2	29.2	58.4	125.5	575.8	911.0	586.1	469.2	149.5	99.7
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°	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0	3594.0
2.5°	3633.5	3612.9	3638.7	3587.1	3545.9	3547.6	3484.0	3480.6	3472.0	3427.3	3442.7
5°	3674.8	3657.6	3628.4	3571.7	3480.6	3389.5	3334.5	3264.0	3234.8	3219.3	3226.2
7.5°	3714.3	3683.4	3599.2	3520.1	3379.2	3207.3	3107.6	3013.0	2892.7	2879.0	2854.9
10°	3724.6	3659.3	3551.0	3382.6	3195.2	3004.5	2777.6	2602.3	2509.4	2437.3	2409.8
12.5°	3709.2	3681.7	3473.7	3257.1	2973.5	2674.4	2409.8	2162.2	1990.4	1901.0	1876.9
15°	3707.4	3659.3	3387.7	3066.3	2703.7	2313.5	1937.1	1639.7	1459.3	1385.3	1385.3
17.5°	3709.2	3594.0	3286.3	2873.8	2385.7	1858.0	1443.8	1199.7	1100.0	1089.7	1098.3
20°	3674.8	3545.9	3179.8	2646.9	1986.9	1395.7	1048.5	948.8	948.8	962.5	967.7
22.5°	3643.8	3473.7	3011.3	2366.8	1581.3	1010.7	852.5	823.3	856.0	880.0	890.3
25°	3600.9	3413.5	2839.5	2076.3	1203.2	814.7	740.8	747.7	778.6	821.6	818.1
27.5°	3539.0	3308.7	2634.9	1739.4	895.5	703.0	684.1	687.5	720.2	739.1	735.6
30°	3468.5	3202.1	2445.8	1404.3	709.9	644.5	642.8	651.4	656.6	666.9	665.2
32.5°	3379.2	3061.2	2244.7	1091.4	639.4	611.9	605.0	599.9	605.0	603.3	598.1
35°	3315.6	2985.5	2040.2	831.9	599.9	582.7	577.5	568.9	562.0	551.7	550.0
37.5°	3298.4	2909.9	1825.4	678.9	568.9	560.3	543.1	527.7	519.1	513.9	510.5
40°	3288.1	2860.1	1615.7	596.4	543.1	534.5	513.9	493.3	484.7	479.5	481.3
42.5°	3324.2	2832.6	1402.5	555.2	520.8	505.3	483.0	458.9	457.2	453.8	458.9
45°	3451.3	2867.0	1204.9	526.0	498.5	472.7	443.4	431.4	429.7	426.3	429.7
47.5°	3740.1	2952.9	1036.4	507.0	474.4	452.0	421.1	403.9	402.2	400.5	400.5
50°	4138.9	3217.6	895.5	484.7	458.9	428.0	398.8	379.9	376.4	369.5	369.5
52.5°	4764.5	3662.8	811.3	472.7	431.4	405.6	374.7	354.1	345.5	338.6	338.6
55°	5469.2	4214.5	795.8	452.0	402.2	378.1	350.6	330.0	321.4	312.8	309.4
57.5°	6271.9	4945.0	905.8	438.3	381.6	350.6	319.7	300.8	293.9	285.3	281.9
60°	7019.6	5673.7	1247.8	417.7	362.7	324.9	293.9	275.0	266.4	257.8	257.8
62.5°	7884.1	6576.1	1827.1	417.7	345.5	297.4	266.4	252.7	247.5	238.9	237.2
65°	8906.8	7509.4	2249.9	443.4	340.3	273.3	240.6	226.9	221.7	216.6	214.8
67.5°	9685.4	8045.7	1935.4	512.2	362.7	252.7	214.8	206.3	202.8	197.7	194.2
70°	9767.9	7719.1	1167.1	553.5	385.0	232.0	192.5	183.9	183.9	178.8	175.3
72.5°	9027.1	6849.4	785.5	493.3	348.9	208.0	170.2	163.3	159.8	156.4	154.7
75°	7554.1	5809.5	620.5	393.6	268.1	171.9	147.8	140.9	135.8	134.1	130.6
77.5°	5073.9	3776.2	458.9	307.7	197.7	139.2	123.8	116.9	111.7	110.0	104.8
80°	1949.1	1438.6	295.6	223.4	139.2	110.0	98.0	91.1	87.7	82.5	79.1
82.5°	574.1	465.8	165.0	137.5	89.4	75.6	70.5	65.3	60.2	55.0	53.3
85°	237.2	213.1	101.4	72.2	55.0	44.7	41.3	36.1	30.9	27.5	24.1
87.5°	110.0	91.1	46.4	27.5	18.9	10.3	5.2	1.7	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)