

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: P484164

Luminaire Tested: **IFLD-S-SA3C-830-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484164
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-830-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

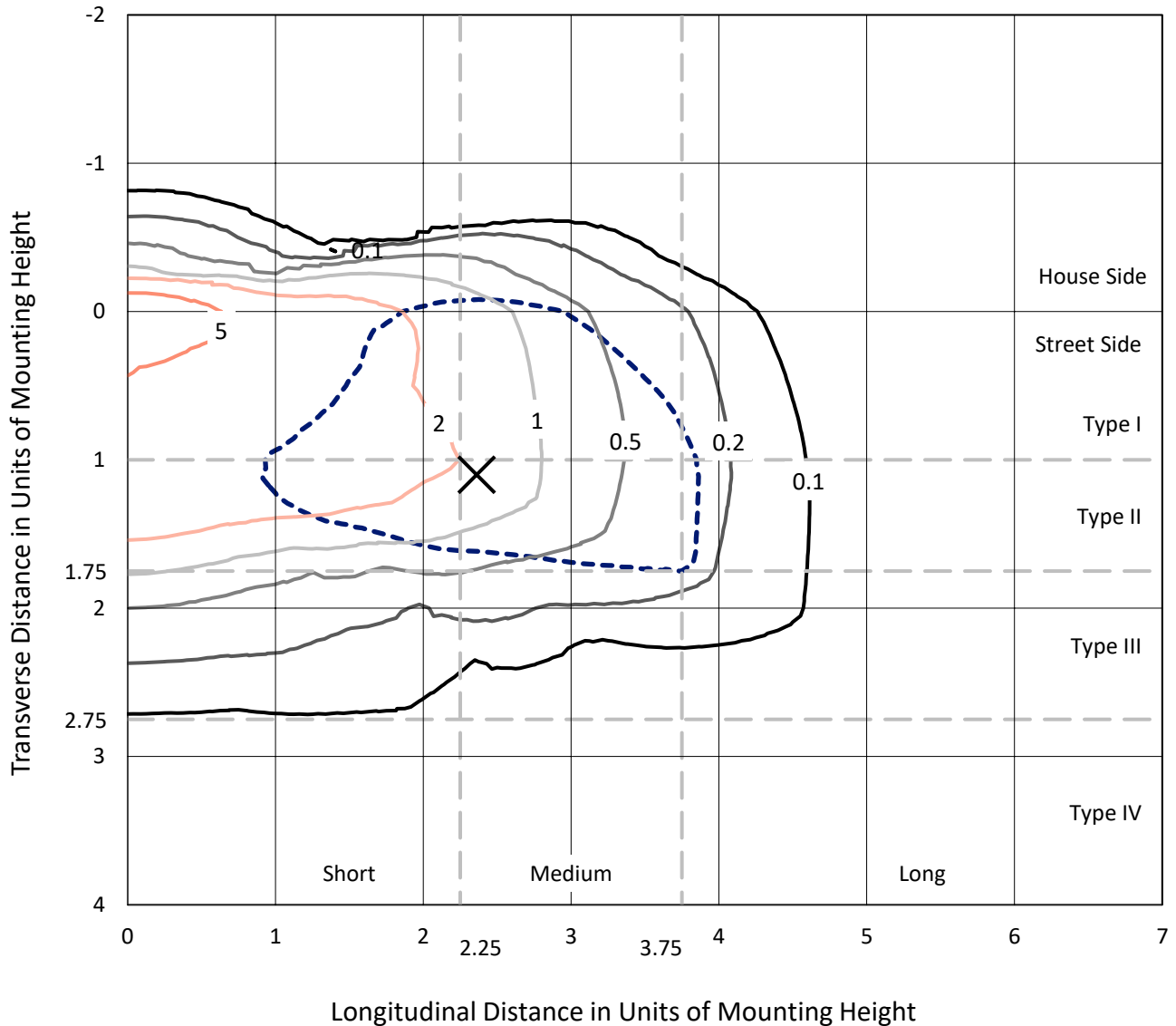
Lumens per Lamp: N/A
Luminaire Lumens: 13853 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

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

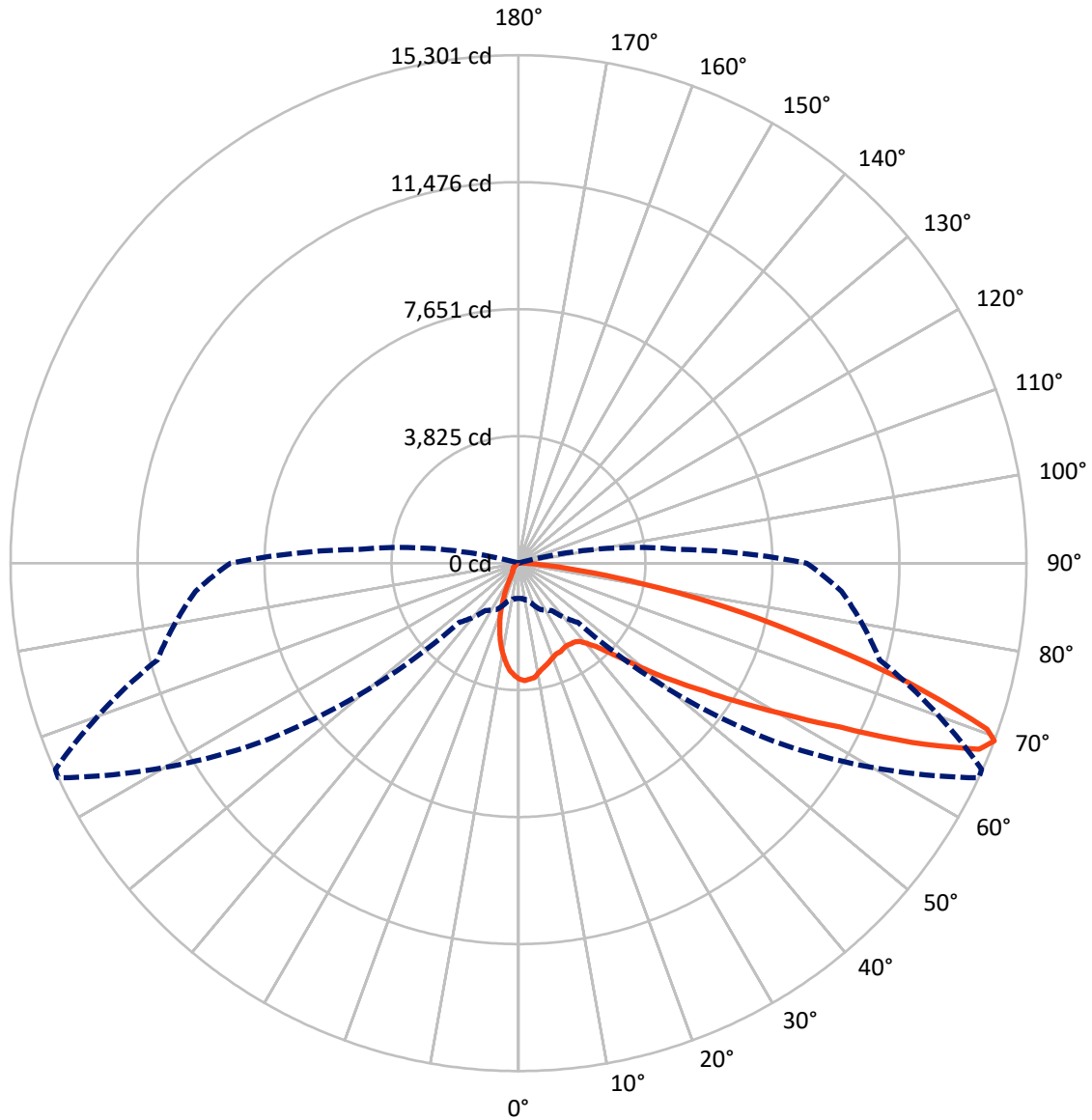
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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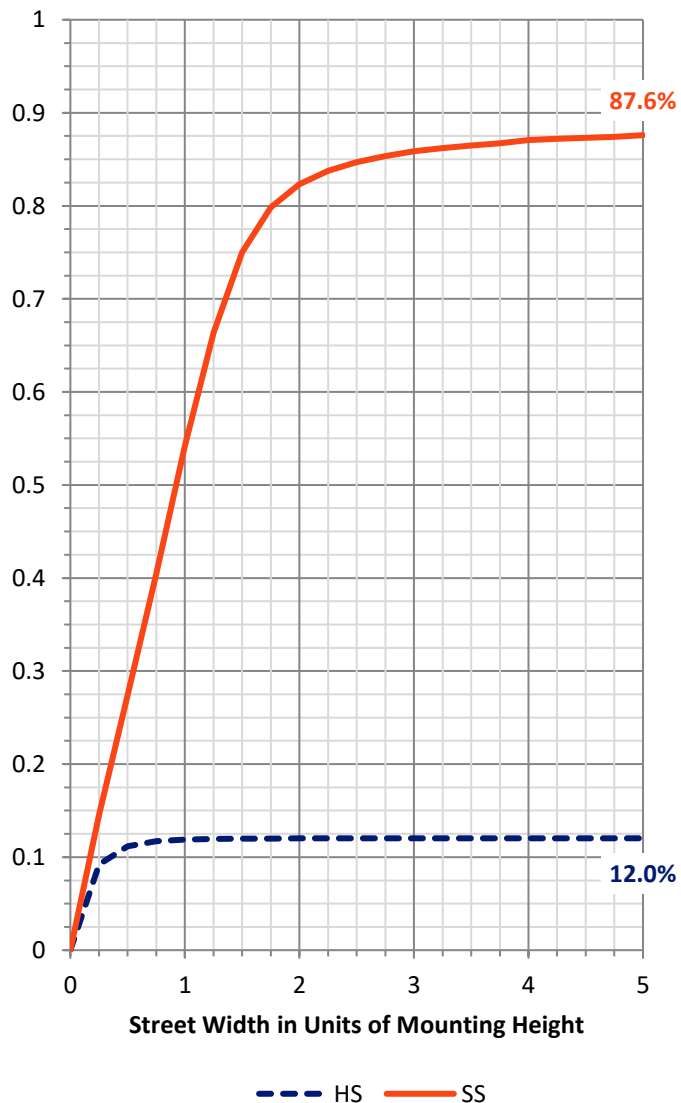
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1680.4	0.0	1680.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	12172.5	0.0	12172.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	13853.0	0.0	13853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.8	2.1
10°-20°	625.4	4.5
20°-30°	870.6	6.3
30°-40°	1233.8	8.9
40°-50°	1944.4	14.0
50°-60°	3155.1	22.8
60°-70°	3523.6	25.4
70°-80°	1984.2	14.3
80°-90°	230.2	1.7
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°	13853.0	100.0
0°-180°	13853.0	100.0

Coefficient of Utilization



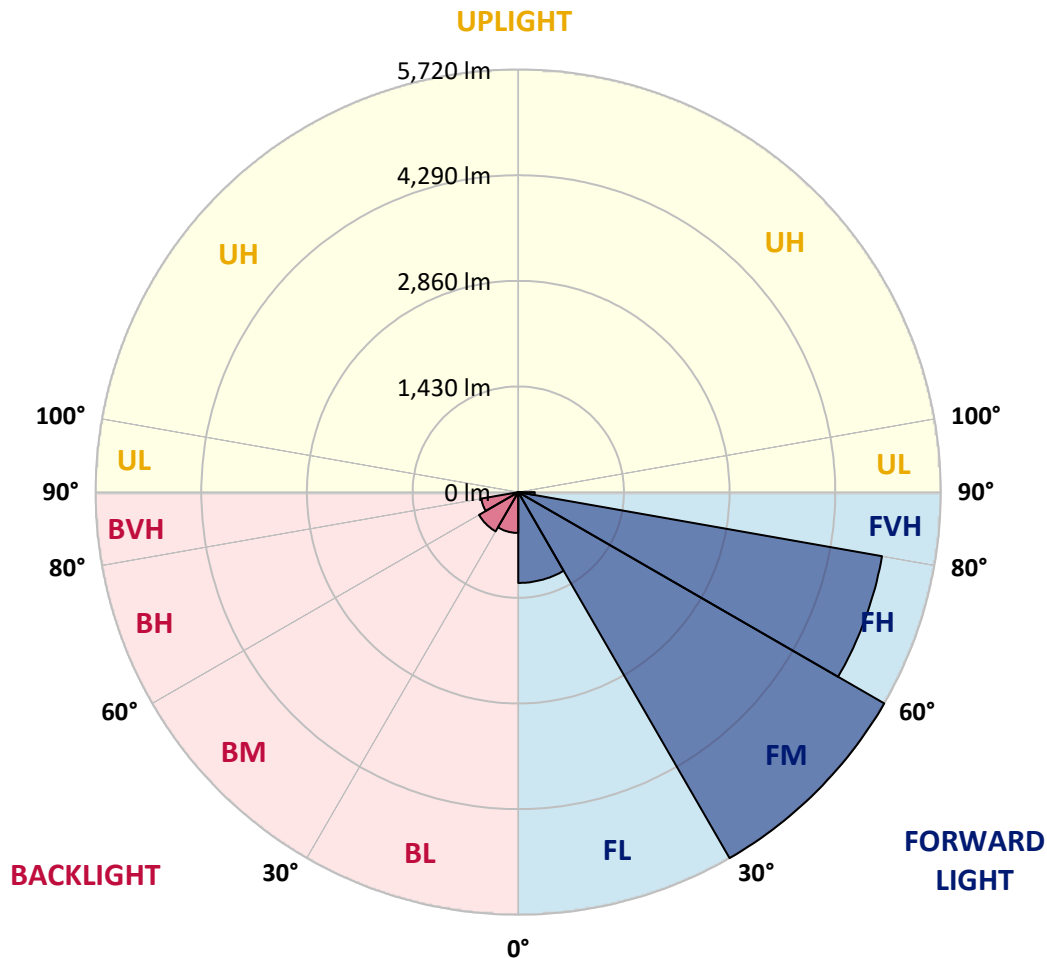
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1229.3	8.9			
FM (30°-60°)	5720.0	41.3			
FH (60°-80°)	4999.3	36.1			G2/5000
FVH (80°-90°)	223.9	1.6			G2/225
BL (0°-30°)	552.5	4.0	B2/1000		
BM (30°-60°)	613.2	4.4	B1/1000		
BH (60°-80°)	508.4	3.7	B2/1000		G2/1000
BVH (80°-90°)	6.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7
2.5°	3363.7	3389.9	3397.3	3423.5	3436.6	3492.7	3524.4	3543.1	3533.8	3554.3	3556.2
5°	3124.5	3109.6	3148.8	3176.8	3236.6	3333.8	3432.9	3509.5	3545.0	3578.6	3573.0
7.5°	2868.5	2861.0	2900.3	2963.8	3018.0	3135.7	3294.6	3483.3	3475.8	3558.1	3582.4
10°	2692.8	2700.3	2713.4	2776.9	2857.3	2976.9	3175.0	3350.6	3389.9	3563.7	3612.3
12.5°	2532.1	2545.2	2569.5	2634.9	2728.3	2851.7	3044.2	3249.7	3309.5	3531.9	3629.1
15°	2479.8	2449.9	2498.5	2547.1	2644.3	2754.5	2917.1	3173.1	3199.3	3494.5	3657.1
17.5°	2436.8	2418.1	2440.6	2479.8	2582.6	2672.3	2825.5	3090.9	3139.5	3479.6	3653.4
20°	2449.9	2433.1	2442.4	2472.3	2519.0	2603.1	2745.2	3012.4	3064.7	3410.4	3647.8
22.5°	2487.3	2500.4	2483.5	2491.0	2506.0	2548.9	2702.2	2956.3	3001.2	3397.3	3679.5
25°	2655.5	2633.0	2610.6	2601.3	2513.4	2532.1	2689.1	2952.6	2984.4	3350.6	3653.4
27.5°	2831.1	2812.4	2803.1	2748.9	2629.3	2573.2	2691.0	2900.3	2943.2	3331.9	3621.6
30°	3044.2	3068.5	3031.1	2965.7	2799.4	2661.1	2711.5	2874.1	2933.9	3260.9	3601.0
32.5°	3268.4	3281.5	3300.2	3251.6	3036.7	2793.7	2773.2	2898.4	2902.1	3260.9	3554.3
35°	3522.6	3503.9	3552.5	3556.2	3367.4	3029.2	2890.9	2915.2	2954.5	3246.0	3537.5
37.5°	3741.2	3773.0	3829.0	3918.7	3724.4	3361.8	3074.1	2993.7	3010.5	3315.1	3550.6
40°	3980.4	4012.2	4139.2	4228.9	4118.7	3735.6	3352.5	3176.8	3189.9	3417.9	3617.9
42.5°	4243.9	4305.5	4456.9	4613.9	4584.0	4210.2	3711.3	3445.9	3440.3	3673.9	3756.1
45°	4600.8	4683.0	4847.5	5028.7	5054.9	4754.0	4189.7	3847.7	3866.4	4008.4	4042.1
47.5°	5097.9	5094.2	5254.9	5456.7	5608.1	5318.4	4761.5	4387.8	4385.9	4537.3	4466.3
50°	5578.2	5580.0	5623.0	5856.6	6249.0	6101.4	5469.8	5105.4	5084.8	5159.6	5045.6
52.5°	5800.5	5774.4	5742.6	6024.8	6742.4	7088.1	6366.8	5918.3	5901.4	5856.6	5826.7
55°	5566.9	5576.3	5574.4	5867.8	7002.1	8129.0	7517.9	6813.4	6785.4	6645.2	6686.3
57.5°	4817.6	4787.7	4853.1	5310.9	6705.0	8839.1	9164.2	7942.1	7869.2	7403.9	7310.5
60°	3586.1	3595.4	3649.6	4189.7	5966.8	8988.6	10739.6	9267.0	8953.1	7938.4	7809.4
62.5°	2504.1	2485.4	2506.0	2808.7	4266.3	8390.6	11804.8	10877.9	10575.1	8545.7	8470.9
65°	1792.1	1767.8	1850.0	2035.0	2562.0	6415.3	11956.1	13023.2	12752.2	9515.6	9336.2
67.5°	1289.4	1285.7	1381.0	1717.4	1820.1	3694.5	10834.9	14966.6	14802.2	10666.7	9863.1
69°	1067.0	1068.9	1160.5	1538.0	1737.9	2522.8	9323.1	15301.1	15271.2	11261.0	9764.1
70°	930.6	938.1	1044.6	1431.4	1704.3	2074.3	8037.4	14972.2	14942.4	11376.8	9437.1
72.5°	573.7	579.3	719.5	1147.4	1620.2	1693.1	4806.4	12249.5	12352.3	10846.1	8130.8
75°	274.7	276.6	377.5	829.7	1562.3	1605.2	2575.1	9039.0	9255.8	8756.9	6353.7
77.5°	145.8	145.8	181.3	441.0	1265.1	1509.9	1528.6	6376.1	6555.5	5537.0	3612.3
80°	72.9	74.7	110.3	229.9	784.9	1480.0	1194.1	3802.9	3900.0	2259.3	1125.0
82.5°	28.0	29.9	52.3	138.3	407.4	1250.2	1048.4	1870.6	1846.3	528.9	274.7
85°	3.7	3.7	18.7	82.2	173.8	551.3	865.2	781.1	755.0	115.9	132.7
87.5°	0.0	0.0	3.7	24.3	52.3	160.7	334.5	214.9	239.2	31.8	65.4
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°	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7
2.5°	3546.8	3507.6	3447.8	3389.9	3328.2	3253.5	3171.2	3141.3	3089.0	3085.3	3115.2
5°	3543.1	3479.6	3374.9	3251.6	3075.9	2943.2	2799.4	2694.7	2614.4	2562.0	2575.1
7.5°	3561.8	3485.2	3303.9	3038.6	2812.4	2548.9	2326.6	2173.3	2033.2	1964.0	1956.6
10°	3531.9	3429.1	3163.8	2791.9	2459.2	2091.1	1765.9	1560.4	1351.1	1274.5	1278.2
12.5°	3548.7	3404.8	3012.4	2537.7	2079.9	1601.5	1212.8	932.5	736.3	672.7	665.3
15°	3559.9	3352.5	2866.6	2233.1	1659.4	1091.3	702.6	528.9	467.2	456.0	454.1
17.5°	3516.9	3289.0	2661.1	1932.3	1229.6	663.4	467.2	431.7	420.5	413.0	409.3
20°	3515.1	3251.6	2483.5	1623.9	820.4	452.2	403.6	390.6	373.7	368.1	368.1
22.5°	3483.3	3173.1	2270.5	1285.7	523.2	388.7	362.5	342.0	323.3	315.8	313.9
25°	3474.0	3081.5	2070.6	966.1	398.0	347.6	321.4	291.5	269.1	257.9	252.3
27.5°	3447.8	3003.0	1868.7	680.2	347.6	310.2	276.6	244.8	218.6	201.8	200.0
30°	3354.4	2920.8	1644.5	470.9	315.8	274.7	237.3	200.0	173.8	162.6	158.8
32.5°	3315.1	2844.2	1399.7	362.5	287.8	242.9	200.0	166.3	145.8	134.5	132.7
35°	3268.4	2732.1	1162.3	315.8	261.6	211.2	168.2	140.2	123.3	114.0	114.0
37.5°	3274.0	2642.4	940.0	285.9	233.6	181.3	143.9	119.6	104.6	95.3	95.3
40°	3257.2	2571.4	730.7	259.8	207.4	155.1	121.5	100.9	87.8	78.5	76.6
42.5°	3333.8	2552.7	551.3	237.3	181.3	132.7	104.6	86.0	72.9	61.7	61.7
45°	3462.8	2582.6	429.8	216.8	155.1	114.0	89.7	71.0	57.9	50.5	48.6
47.5°	3806.6	2700.3	336.4	200.0	132.7	99.0	74.7	57.9	46.7	39.2	37.4
50°	4305.5	2963.8	285.9	175.7	112.1	84.1	61.7	44.8	37.4	29.9	28.0
52.5°	5015.7	3406.7	259.8	155.1	93.4	69.1	48.6	35.5	28.0	22.4	20.6
55°	5789.3	3959.8	235.5	130.8	78.5	56.1	39.2	28.0	20.6	14.9	13.1
57.5°	6392.9	4438.2	214.9	108.4	63.5	44.8	29.9	20.6	14.9	9.3	7.5
60°	7052.6	4774.6	188.7	86.0	52.3	33.6	22.4	14.9	11.2	5.6	5.6
62.5°	7732.8	5168.9	155.1	67.3	41.1	26.2	16.8	11.2	7.5	1.9	1.9
65°	8678.4	5477.2	119.6	52.3	31.8	18.7	13.1	9.3	3.7	0.0	0.0
67.5°	8945.6	5325.9	87.8	41.1	22.4	13.1	9.3	5.6	1.9	0.0	0.0
69°	8678.4	4797.0	76.6	35.5	18.7	11.2	7.5	3.7	1.9	0.0	0.0
70°	8190.6	4385.9	67.3	29.9	16.8	11.2	5.6	3.7	1.9	0.0	0.0
72.5°	6850.8	3363.7	52.3	22.4	13.1	9.3	5.6	3.7	0.0	0.0	0.0
75°	5025.0	2078.0	39.2	16.8	11.2	7.5	5.6	3.7	0.0	0.0	0.0
77.5°	2692.8	758.7	28.0	11.2	7.5	5.6	5.6	3.7	0.0	0.0	0.0
80°	738.1	224.2	20.6	7.5	5.6	3.7	3.7	1.9	0.0	0.0	0.0
82.5°	201.8	57.9	13.1	7.5	5.6	3.7	1.9	0.0	0.0	0.0	0.0
85°	108.4	22.4	7.5	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	56.1	7.5	5.6	3.7	3.7	1.9	0.0	0.0	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)