

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: P484572

Luminaire Tested: **IFLD-M-SA4A-830-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484572
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-830-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

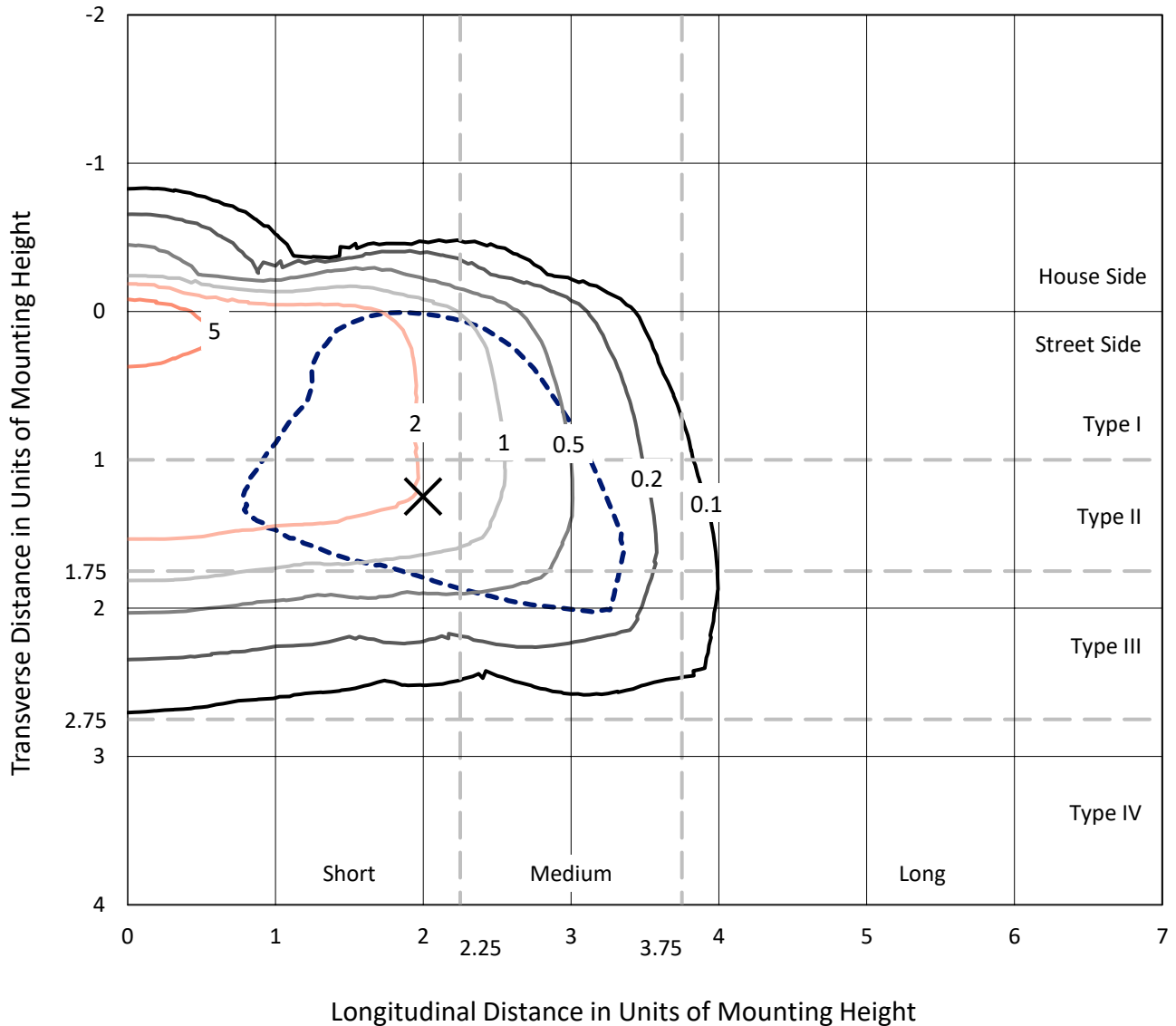
Lumens per Lamp: N/A
Luminaire Lumens: 12271.9 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6
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

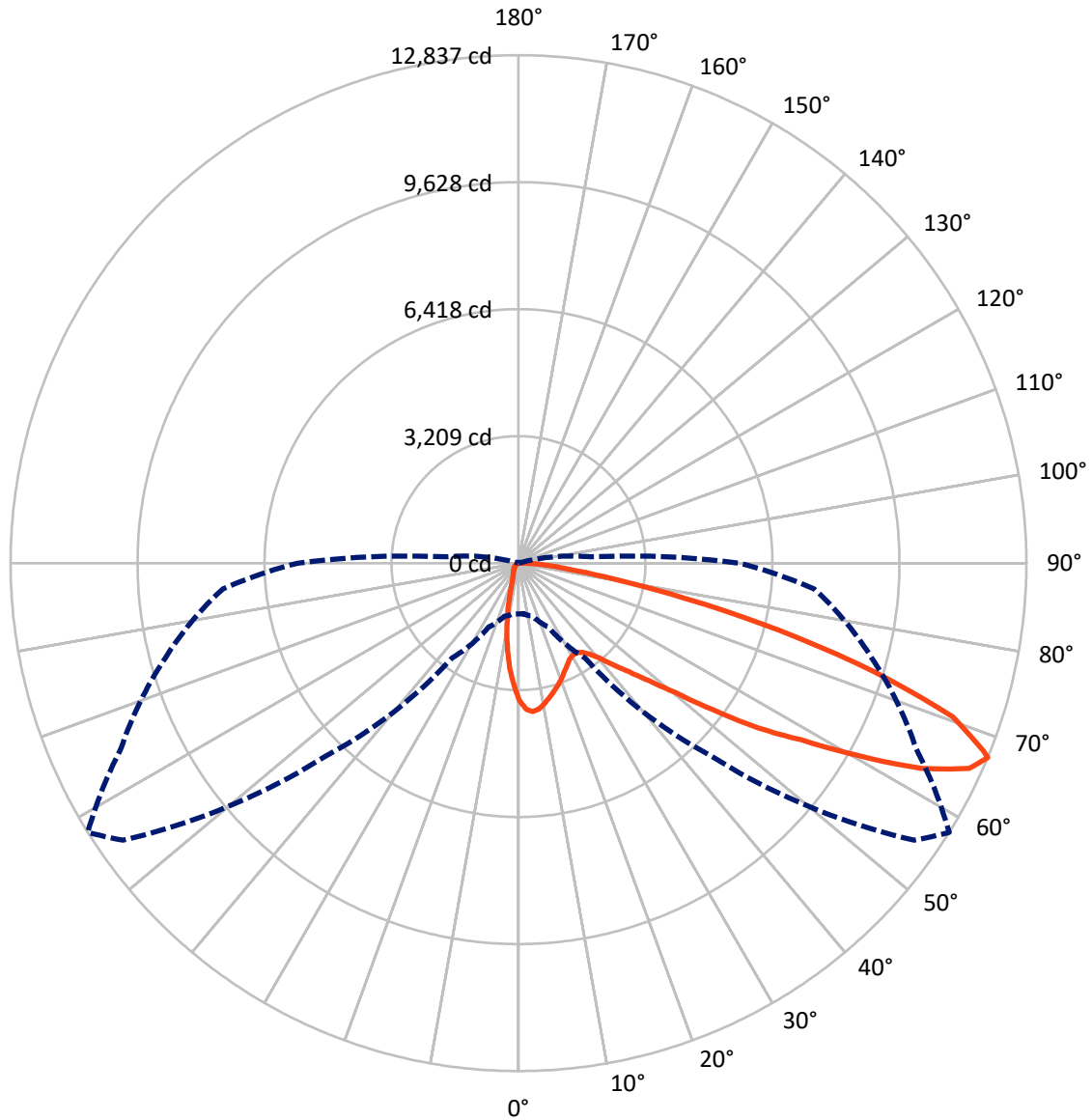
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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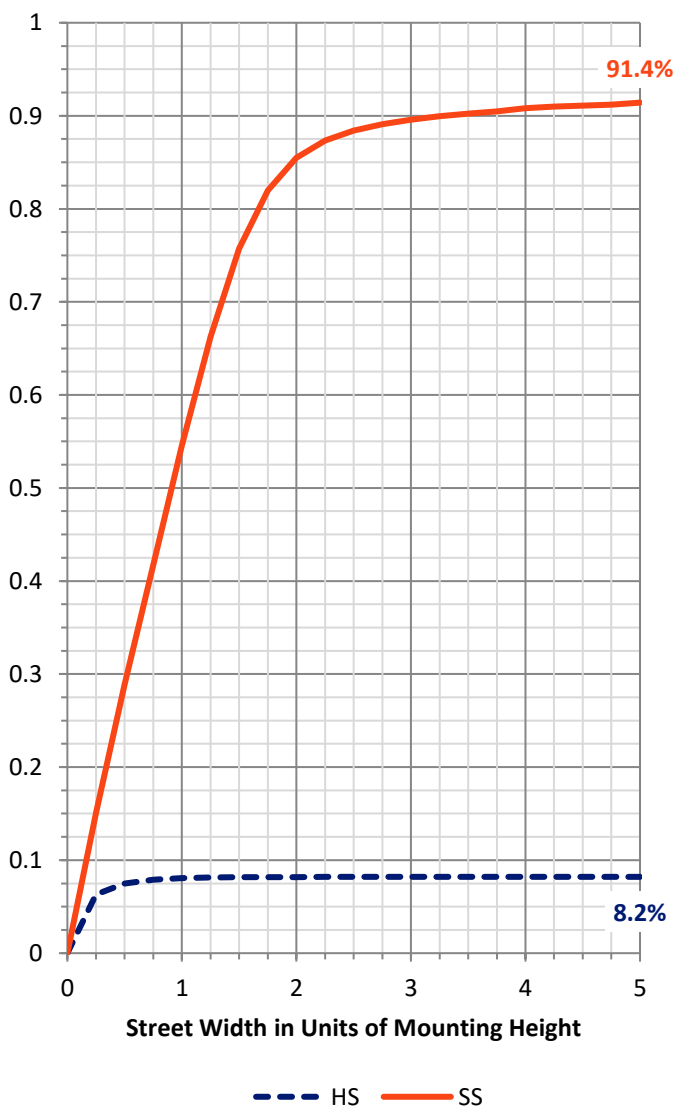
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1014.4	0.0	1014.4
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	11257.6	0.0	11257.6
	% Fixture	91.7	0.0	91.7
Total	Lumens	12271.9	0.0	12271.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.9	2.2
10°-20°	572.2	4.7
20°-30°	759.2	6.2
30°-40°	1052.0	8.6
40°-50°	1716.5	14.0
50°-60°	3017.1	24.6
60°-70°	3341.7	27.2
70°-80°	1384.8	11.3
80°-90°	152.4	1.2
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°	12271.9	100.0
0°-180°	12271.9	100.0

Coefficient of Utilization



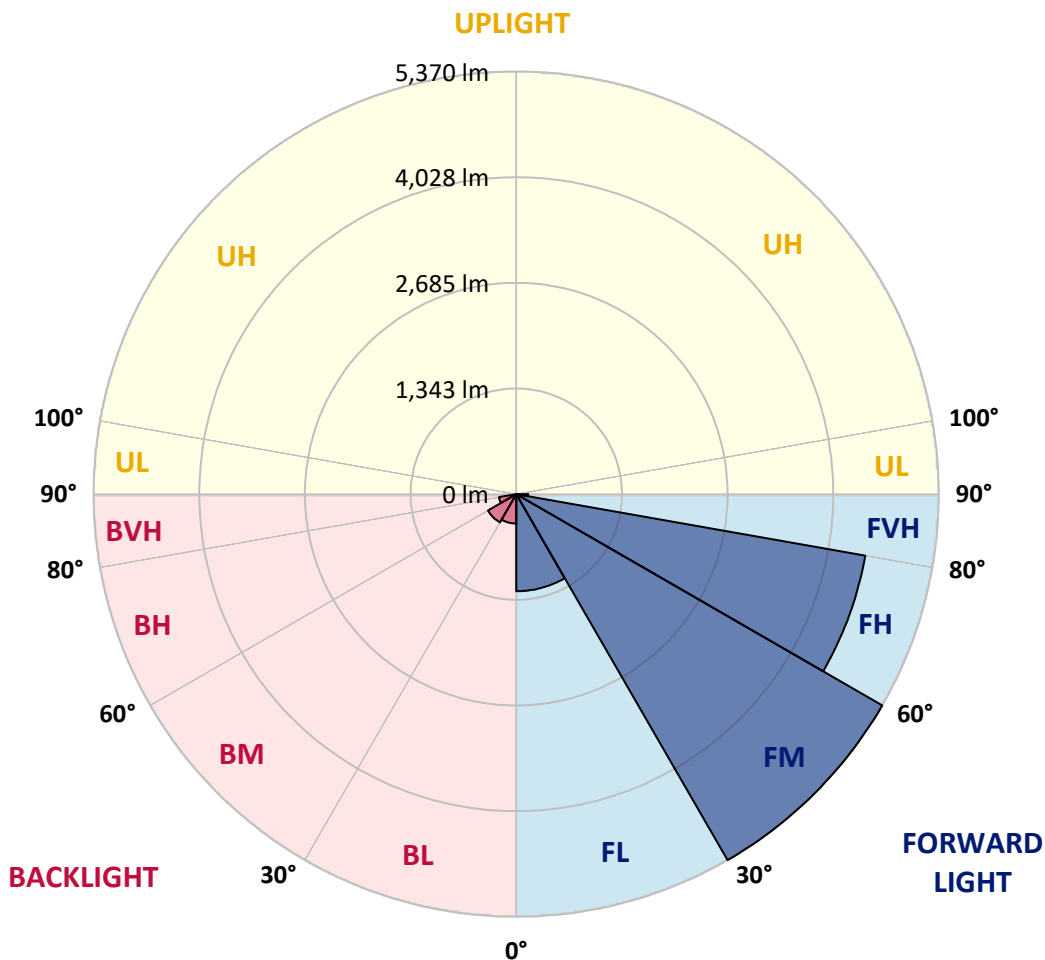
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1233.7	10.1			
FM (30°-60°)	5370.4	43.8			
FH (60°-80°)	4503.5	36.7			G2/5000
FVH (80°-90°)	149.9	1.2			G2/225
BL (0°-30°)	373.6	3.0	B1/500		
BM (30°-60°)	415.2	3.4	B1/1000		
BH (60°-80°)	223.0	1.8	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3476.8	3476.8	3476.8	3476.8	3476.8	3476.8	3476.8	3476.8	3476.8	3476.8	3476.8
2.5°	3783.1	3796.1	3807.5	3786.4	3804.3	3778.2	3711.4	3696.8	3685.4	3586.0	3528.9
5°	3781.5	3766.8	3778.2	3788.0	3763.6	3783.1	3766.8	3768.4	3724.5	3634.8	3475.2
7.5°	3528.9	3522.4	3528.9	3576.2	3630.0	3672.3	3696.8	3721.2	3691.9	3558.3	3403.5
10°	3188.4	3221.0	3238.9	3323.7	3406.7	3485.0	3561.5	3607.1	3599.0	3545.2	3325.3
12.5°	2950.6	2940.8	3006.0	3061.4	3144.4	3302.5	3436.1	3478.4	3527.3	3452.4	3222.6
15°	2730.6	2704.5	2743.6	2839.8	2981.5	3107.0	3294.3	3357.9	3419.8	3439.3	3167.3
17.5°	2520.4	2533.5	2574.2	2660.6	2794.2	2970.1	3146.1	3237.3	3385.6	3359.5	3084.2
20°	2419.4	2447.1	2461.8	2505.8	2598.6	2774.6	3036.9	3110.2	3268.3	3357.9	3002.7
22.5°	2424.3	2424.3	2390.1	2416.2	2500.9	2637.7	2888.7	2970.1	3221.0	3273.2	2929.4
25°	2476.5	2443.9	2445.5	2414.5	2450.4	2525.3	2755.1	2854.4	3124.9	3281.3	2890.3
27.5°	2515.6	2509.0	2499.3	2491.1	2445.5	2456.9	2667.1	2748.5	3087.4	3271.5	2830.0
30°	2657.3	2628.0	2618.2	2600.3	2540.0	2484.6	2597.0	2699.7	3058.1	3294.3	2795.8
32.5°	2776.2	2781.1	2789.3	2737.1	2685.0	2548.1	2616.6	2698.0	3036.9	3346.5	2830.0
35°	2926.1	2947.3	2950.6	2934.3	2878.9	2743.6	2698.0	2768.1	3072.8	3439.3	2833.3
37.5°	3154.2	3131.4	3193.3	3199.8	3160.7	2981.5	2887.0	2914.7	3178.7	3587.6	2957.1
40°	3302.5	3330.2	3445.9	3517.5	3450.7	3287.8	3160.7	3155.8	3331.8	3820.6	3110.2
42.5°	3467.0	3528.9	3656.0	3810.8	3802.7	3651.1	3522.4	3501.2	3603.9	4157.8	3353.0
45°	3691.9	3747.3	3924.8	4157.8	4284.9	4156.2	3962.3	3920.0	3934.6	4617.3	3766.8
47.5°	4065.0	4050.3	4306.1	4535.8	4744.4	4645.0	4561.9	4438.1	4426.7	5158.2	4338.7
50°	4486.9	4483.7	4711.8	4972.5	5213.6	5407.5	5269.0	5133.7	5137.0	5893.0	5011.6
52.5°	4887.7	4951.3	5197.3	5456.3	5870.2	6078.7	6212.3	6158.5	5899.5	6549.6	5731.7
55°	5099.5	5154.9	5399.3	5845.7	6499.1	7035.1	7396.8	7351.2	6851.0	7289.2	6442.0
57.5°	4899.1	4936.6	5267.3	5852.2	6939.0	8134.8	8481.8	8424.8	7835.0	7854.6	7300.6
60°	4060.1	4118.7	4610.8	5296.7	6767.9	8982.0	9975.9	9889.5	8731.1	8569.8	7853.0
62.5°	2812.1	2851.2	3255.2	4109.0	5956.5	9276.9	11386.8	11434.0	9676.1	9127.0	8017.5
65°	1821.5	1818.2	2049.6	2628.0	4221.4	8384.1	12221.0	12514.2	10588.5	9211.7	7967.0
67°	1287.1	1282.2	1391.4	1782.4	2922.9	6908.0	12206.3	12836.8	11083.7	9236.2	7499.4
67.5°	1187.7	1182.8	1287.1	1639.0	2637.7	6424.1	12023.8	12670.6	11258.1	9202.0	7294.1
70°	922.2	909.1	948.2	1129.1	1536.4	4154.6	10290.3	11639.3	10896.4	8348.2	5824.5
72.5°	666.4	681.0	742.9	927.0	1205.6	2235.3	7843.2	9412.1	9101.0	6292.1	3701.6
75°	464.3	477.4	576.8	756.0	1106.3	1355.5	5303.2	6826.5	6339.4	3473.5	1577.1
77.5°	242.8	259.0	368.2	604.4	1005.2	1049.2	3168.9	4328.9	3359.5	1236.6	435.0
80°	112.4	120.6	184.1	428.5	840.7	922.2	1847.6	2408.0	1344.1	277.0	149.9
82.5°	48.9	53.8	84.7	246.0	596.3	806.5	1143.7	1262.7	487.1	89.6	92.9
85°	9.8	11.4	32.6	130.3	288.4	488.8	803.2	749.5	244.4	44.0	73.3
87.5°	0.0	0.0	8.1	37.5	78.2	145.0	340.5	340.5	74.9	22.8	27.7
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°	3476.8	3476.8	3476.8	3476.8	3476.8	3476.8	3476.8	3476.8	3476.8	3476.8	3476.8
2.5°	3478.4	3419.8	3291.1	3172.1	3087.4	2991.3	2864.2	2807.2	2786.0	2756.7	2712.7
5°	3387.2	3315.5	3095.6	2874.0	2631.2	2447.1	2251.6	2137.6	2051.2	1997.5	1979.5
7.5°	3258.5	3111.9	2815.3	2460.2	2145.7	1872.0	1575.5	1375.1	1246.4	1194.2	1145.4
10°	3155.8	2965.2	2513.9	2072.4	1653.7	1252.9	918.9	742.9	609.3	558.8	552.3
12.5°	3022.2	2794.2	2232.1	1676.5	1150.2	746.2	508.3	441.5	404.1	397.5	392.6
15°	2911.5	2639.4	1964.9	1298.5	744.6	466.0	395.9	379.6	369.8	366.6	368.2
17.5°	2836.5	2473.2	1691.2	945.0	490.4	381.2	365.0	355.2	350.3	348.7	343.8
20°	2688.3	2333.1	1420.7	661.5	382.9	351.9	338.9	330.7	325.8	324.2	322.6
22.5°	2603.5	2155.5	1150.2	461.1	340.5	319.3	309.6	303.0	294.9	290.0	288.4
25°	2518.8	2025.2	909.1	358.4	309.6	294.9	280.2	272.1	259.0	252.5	250.9
27.5°	2419.4	1896.4	700.6	311.2	278.6	263.9	249.3	236.2	219.9	213.4	210.2
30°	2362.4	1771.0	527.9	278.6	255.8	236.2	218.3	202.0	184.1	172.7	169.4
32.5°	2333.1	1656.9	395.9	254.2	231.4	210.2	187.4	167.8	151.5	141.7	140.1
35°	2297.2	1546.2	311.2	231.4	208.5	185.7	162.9	143.4	127.1	118.9	115.7
37.5°	2334.7	1481.0	259.0	213.4	190.6	164.6	140.1	120.6	107.5	99.4	97.8
40°	2437.3	1427.2	224.8	197.1	172.7	145.0	122.2	102.6	91.2	84.7	81.5
42.5°	2595.4	1427.2	203.7	180.8	156.4	127.1	104.3	89.6	78.2	71.7	70.1
45°	2882.1	1471.2	185.7	164.6	136.9	109.2	89.6	74.9	63.5	57.0	55.4
47.5°	3284.6	1572.2	171.1	149.9	122.2	96.1	78.2	63.5	52.1	45.6	44.0
50°	3825.5	1801.9	156.4	132.0	109.2	83.1	65.2	50.5	40.7	34.2	32.6
52.5°	4500.0	2127.8	141.7	122.2	92.9	70.1	52.1	40.7	31.0	26.1	24.4
55°	5213.6	2527.0	123.8	109.2	79.8	58.7	42.4	31.0	22.8	19.6	17.9
57.5°	5932.1	2834.9	109.2	94.5	65.2	47.2	34.2	24.4	16.3	13.0	11.4
60°	6313.3	2864.2	94.5	78.2	52.1	37.5	26.1	17.9	11.4	8.1	6.5
62.5°	6372.0	2603.5	81.5	63.5	42.4	29.3	17.9	13.0	6.5	3.3	3.3
65°	6070.6	2170.2	70.1	50.5	32.6	21.2	13.0	8.1	3.3	1.6	0.0
67°	5581.8	1818.2	60.3	42.4	26.1	16.3	9.8	4.9	1.6	0.0	0.0
67.5°	5392.8	1720.5	57.0	39.1	24.4	14.7	8.1	4.9	1.6	0.0	0.0
70°	4185.5	1228.5	42.4	27.7	17.9	11.4	6.5	3.3	0.0	0.0	0.0
72.5°	2564.4	718.5	32.6	19.6	13.0	8.1	4.9	1.6	0.0	0.0	0.0
75°	1075.3	247.6	27.7	14.7	9.8	4.9	3.3	1.6	0.0	0.0	0.0
77.5°	280.2	92.9	19.6	9.8	6.5	4.9	3.3	1.6	0.0	0.0	0.0
80°	114.0	42.4	13.0	6.5	6.5	4.9	3.3	1.6	0.0	0.0	0.0
82.5°	74.9	19.6	8.1	6.5	4.9	3.3	1.6	0.0	0.0	0.0	0.0
85°	57.0	11.4	4.9	4.9	3.3	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	24.4	6.5	4.9	3.3	3.3	0.0	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)