

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: P483680

Luminaire Tested: **IFLD-L-SA7A-750-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483680
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-750-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

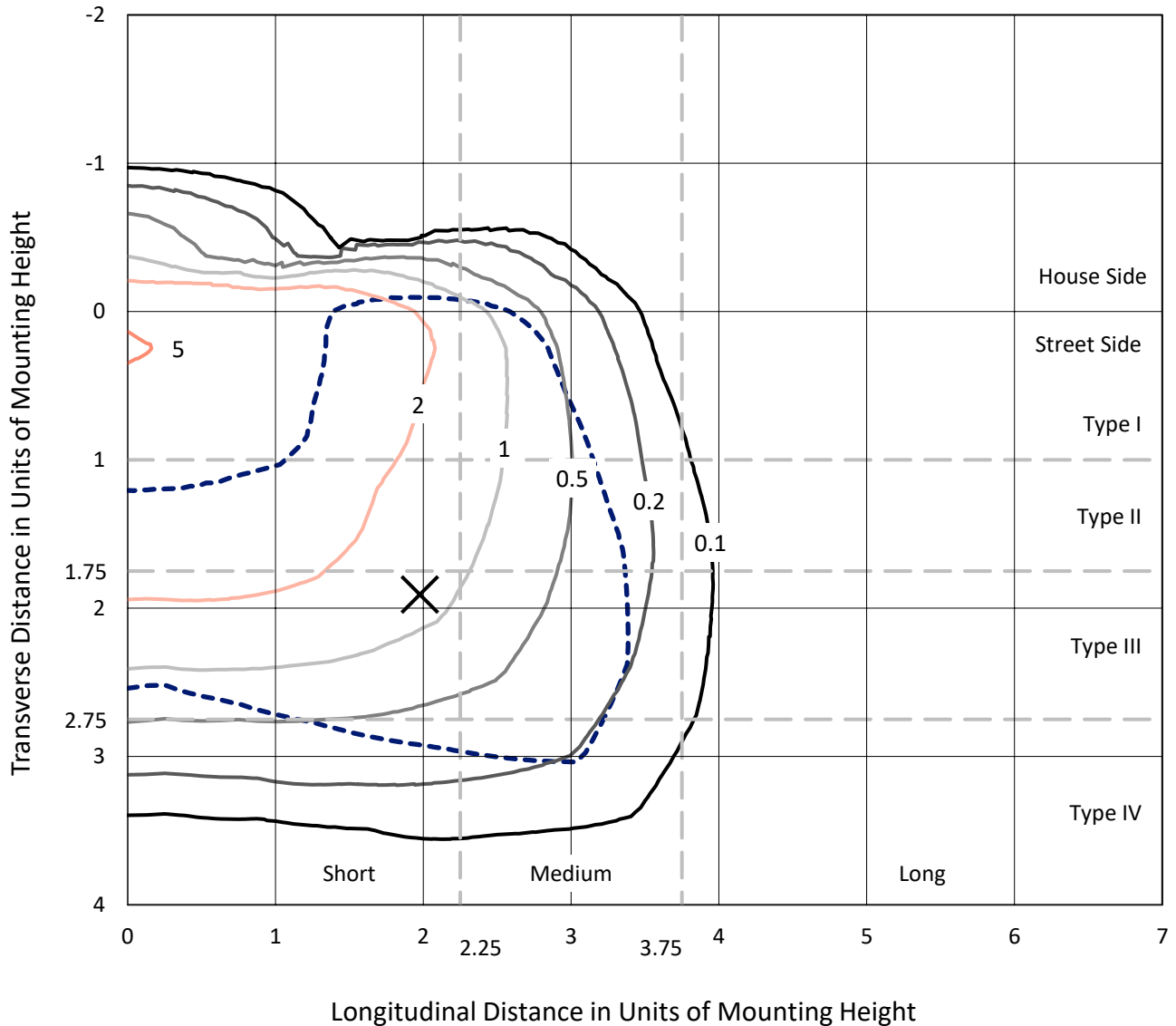
Lumens per Lamp: N/A
Luminaire Lumens: 23623.5 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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

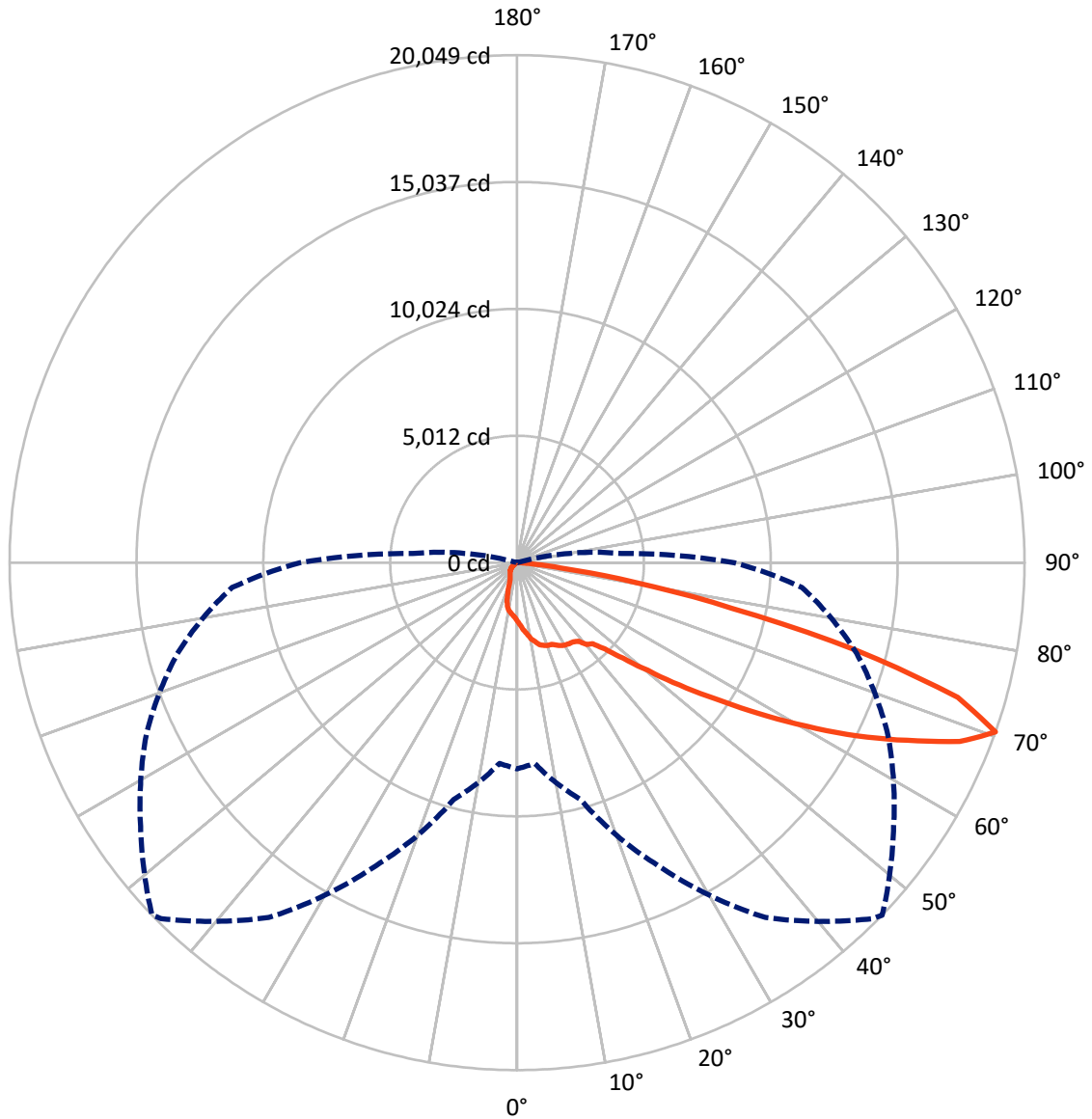
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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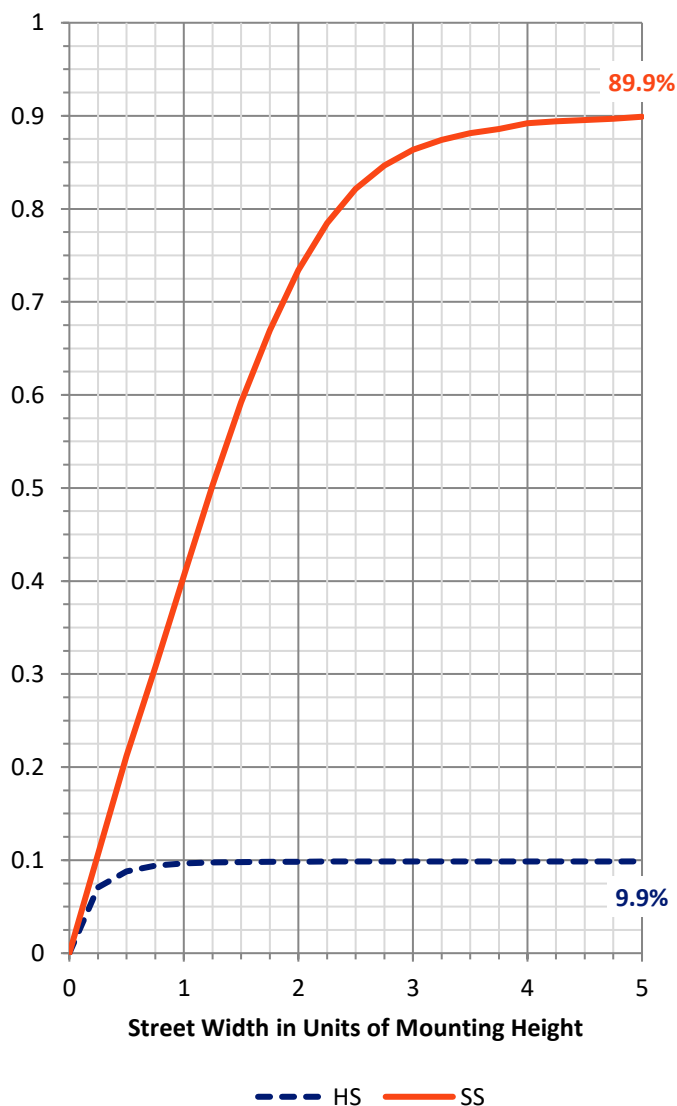
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2350.6	0.0	2350.6
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	21272.9	0.0	21272.9
	% Fixture	90.0	0.0	90.0
Total	Lumens	23623.5	0.0	23623.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.2	1.0
10°-20°	698.3	3.0
20°-30°	1118.6	4.7
30°-40°	1596.6	6.8
40°-50°	2756.9	11.7
50°-60°	5278.3	22.3
60°-70°	7816.4	33.1
70°-80°	3871.4	16.4
80°-90°	255.8	1.1
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°	23623.5	100.0
0°-180°	23623.5	100.0

Coefficient of Utilization



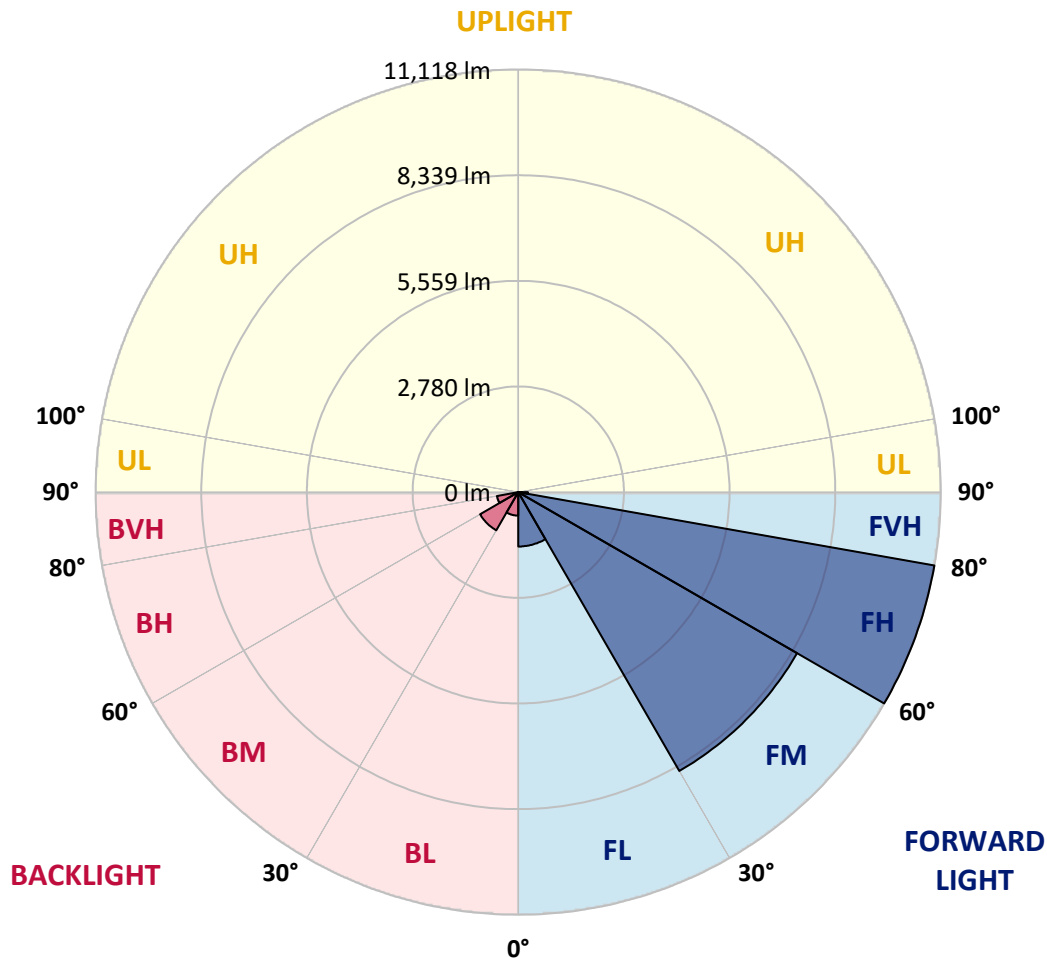
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1430.6	6.1			
FM (30°-60°)	8471.3	35.9			
FH (60°-80°)	11118.4	47.1			G4/12000
FVH (80°-90°)	252.6	1.1			G3/500
BL (0°-30°)	617.5	2.6	B2/1000		
BM (30°-60°)	1160.5	4.9	B2/2500		
BH (60°-80°)	569.3	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.3	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2319.1	2319.1	2319.1	2319.1	2319.1	2319.1	2319.1	2319.1	2319.1	2319.1	2319.1
2.5°	2587.7	2570.7	2543.5	2533.3	2506.1	2492.5	2472.1	2461.9	2424.5	2387.1	2363.3
5°	2904.0	2863.2	2876.8	2836.0	2747.5	2676.1	2672.7	2594.5	2509.5	2441.5	2349.7
7.5°	3223.6	3189.6	3138.6	3080.8	2982.2	2876.8	2846.2	2771.4	2652.3	2533.3	2410.9
10°	3465.0	3441.2	3397.0	3315.4	3179.4	3060.4	3063.8	2938.0	2812.2	2676.1	2509.5
12.5°	3614.7	3624.9	3560.2	3478.6	3359.6	3210.0	3206.6	3121.6	2978.8	2836.0	2638.7
15°	3764.3	3801.7	3703.1	3607.9	3454.8	3346.0	3366.4	3264.4	3125.0	2961.8	2744.1
17.5°	3788.1	3798.3	3777.9	3638.5	3526.2	3434.4	3437.8	3369.8	3264.4	3087.6	2900.6
20°	3747.3	3740.5	3716.7	3614.7	3539.8	3485.4	3488.8	3471.8	3414.0	3271.2	3016.2
22.5°	3628.3	3628.3	3597.7	3529.6	3495.6	3546.6	3505.8	3570.5	3509.2	3424.2	3213.4
25°	3533.0	3570.5	3553.4	3509.2	3522.8	3590.9	3611.3	3672.5	3662.3	3556.8	3349.4
27.5°	3635.1	3590.9	3601.1	3550.0	3601.1	3703.1	3713.3	3757.5	3754.1	3669.1	3471.8
30°	3703.1	3743.9	3665.7	3553.4	3607.9	3781.3	3774.5	3832.3	3859.5	3757.5	3587.5
32.5°	3920.7	3886.7	3822.1	3672.5	3679.3	3777.9	3808.5	3883.3	3900.3	3839.1	3699.7
35°	4366.2	4315.1	4032.9	3808.5	3774.5	3822.1	3842.5	3988.7	4019.3	3951.3	3818.7
37.5°	5053.0	4937.4	4597.4	4100.9	3947.9	3937.7	3937.7	4131.5	4247.1	4090.7	3995.5
40°	6035.8	5872.5	5505.3	4641.6	4175.7	4216.5	4257.3	4362.8	4349.1	4247.1	4226.7
42.5°	7287.1	7161.3	6763.5	5549.5	4611.0	4407.0	4373.0	4515.8	4730.0	4689.2	4675.6
45°	8331.1	8337.9	8082.8	6794.1	5362.5	4845.6	4869.4	4978.2	5338.7	5308.1	5304.7
47.5°	9092.7	8997.5	8960.1	7994.4	6457.4	5678.7	5644.7	5719.5	6188.8	6382.6	6471.0
50°	9786.4	9721.8	9633.4	9160.8	7773.4	6722.6	6688.6	6695.4	7412.9	7685.0	7902.6
52.5°	10646.7	10728.4	10435.9	10146.9	9477.0	8079.4	8042.0	7909.4	8800.3	9174.4	9432.8
55°	11707.7	11554.7	11224.8	11374.4	11105.8	9545.0	9477.0	9320.6	10381.5	10537.9	10810.0
57.5°	11942.3	11826.7	12166.7	12697.2	12955.6	11265.6	11238.4	10956.2	11711.1	11568.3	12336.8
60°	12527.2	12557.8	13030.4	14084.6	14533.4	13251.5	13118.9	12622.4	12999.8	13027.0	13846.5
62.5°	13129.1	13057.6	14115.2	15128.5	15818.8	15131.9	15087.7	14101.6	14530.0	14183.2	15267.9
65°	12687.0	12795.8	14309.0	16005.8	17485.0	16971.5	16934.1	15526.4	15761.0	15329.1	15846.0
67.5°	11116.0	10895.0	13013.4	15604.6	18341.9	18899.6	18858.8	17080.4	16454.7	15322.3	14645.7
70°	8147.4	7957.0	9684.4	13214.1	17114.4	19885.7	20048.9	18161.7	16172.4	13894.2	11299.6
72.5°	3992.1	3995.5	5427.1	8960.1	13540.5	18124.3	18205.9	16651.9	13894.2	10242.1	6399.6
75°	1179.9	1193.6	2009.7	4393.4	8752.7	13764.9	13856.8	12639.4	9630.0	5291.1	2183.1
77.5°	431.9	431.9	666.5	1649.2	4366.2	8688.1	8681.3	7759.8	4876.2	1792.0	510.1
80°	224.4	234.6	346.8	673.3	1890.6	4526.0	4696.0	3798.3	1853.2	754.9	149.6
82.5°	91.8	102.0	190.4	346.8	907.9	1588.0	1737.6	1489.4	805.9	527.1	68.0
85°	27.2	30.6	91.8	193.8	357.0	397.9	442.1	499.9	506.7	408.1	30.6
87.5°	3.4	3.4	37.4	64.6	78.2	85.0	98.6	98.6	258.4	285.6	17.0
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°	2319.1	2319.1	2319.1	2319.1	2319.1	2319.1	2319.1	2319.1	2319.1	2319.1	2319.1
2.5°	2336.1	2319.1	2291.9	2230.7	2217.1	2172.9	2169.5	2128.7	2142.3	2115.1	2104.9
5°	2319.1	2281.7	2206.9	2159.3	2111.7	2081.1	2060.7	2043.7	2040.3	2026.7	2019.9
7.5°	2349.7	2298.7	2183.1	2108.3	2026.7	1999.5	1955.2	1951.8	1928.0	1904.2	1904.2
10°	2451.7	2359.9	2234.1	2108.3	2002.9	1914.4	1812.4	1737.6	1710.4	1649.2	1656.0
12.5°	2533.3	2451.7	2268.1	2138.9	1979.1	1778.4	1554.0	1380.6	1299.0	1220.8	1251.4
15°	2648.9	2529.9	2332.7	2145.7	1887.2	1540.4	1173.1	979.3	904.5	887.5	884.1
17.5°	2774.8	2648.9	2414.3	2128.7	1700.2	1190.2	863.7	751.5	765.1	785.5	782.1
20°	2914.2	2761.1	2475.5	2070.9	1404.4	863.7	707.3	703.9	724.3	754.9	761.7
22.5°	3060.4	2927.8	2550.3	1897.4	1047.3	693.7	680.1	680.1	693.7	731.1	724.3
25°	3223.6	3046.8	2587.7	1628.8	751.5	639.3	646.1	659.7	666.5	697.1	700.5
27.5°	3349.4	3179.4	2597.9	1305.8	612.1	591.7	608.7	625.7	635.9	659.7	669.9
30°	3465.0	3346.0	2543.5	972.5	561.1	550.9	557.7	581.5	601.9	622.3	622.3
32.5°	3611.3	3441.2	2417.7	690.3	530.5	513.5	510.1	520.3	544.1	567.9	567.9
35°	3760.9	3601.1	2217.1	554.3	503.3	479.5	465.9	455.7	465.9	482.9	496.5
37.5°	3978.5	3842.5	1965.4	510.1	482.9	448.9	421.7	397.9	380.8	377.4	387.6
40°	4287.9	4114.5	1642.4	479.5	459.1	418.3	377.4	336.6	299.2	275.4	278.8
42.5°	4757.2	4515.8	1292.2	462.5	442.1	384.2	326.4	268.6	221.0	197.2	197.2
45°	5427.1	5046.2	948.7	445.5	421.7	343.4	268.6	200.6	153.0	139.4	142.8
47.5°	6437.0	5685.5	680.1	418.3	394.4	299.2	210.8	142.8	112.2	105.4	108.8
50°	7756.4	6443.8	530.5	387.6	360.4	251.6	156.4	105.4	88.4	85.0	88.4
52.5°	9140.4	7208.9	465.9	360.4	309.4	200.6	115.6	85.0	74.8	71.4	74.8
55°	10323.7	7702.0	404.7	319.6	248.2	149.6	91.8	74.8	64.6	54.4	54.4
57.5°	11520.7	7950.2	319.6	265.2	183.6	112.2	78.2	64.6	54.4	44.2	40.8
60°	12493.2	8127.0	227.8	197.2	129.2	88.4	68.0	57.8	44.2	34.0	30.6
62.5°	13132.5	7620.4	166.6	149.6	95.2	74.8	57.8	47.6	34.0	23.8	23.8
65°	12816.2	6919.9	129.2	105.4	71.4	57.8	47.6	34.0	23.8	13.6	10.2
67.5°	11500.3	5637.9	105.4	78.2	54.4	44.2	37.4	27.2	13.6	3.4	3.4
70°	8579.3	4131.5	85.0	57.8	44.2	34.0	27.2	17.0	6.8	3.4	0.0
72.5°	4692.6	2261.3	68.0	47.6	34.0	27.2	20.4	13.6	6.8	0.0	0.0
75°	1550.6	601.9	51.0	34.0	20.4	17.0	13.6	10.2	3.4	0.0	0.0
77.5°	374.0	156.4	40.8	30.6	17.0	10.2	6.8	3.4	3.4	0.0	0.0
80°	115.6	64.6	30.6	20.4	13.6	10.2	3.4	0.0	0.0	0.0	0.0
82.5°	47.6	30.6	13.6	13.6	10.2	3.4	0.0	0.0	0.0	0.0	0.0
85°	23.8	17.0	10.2	6.8	6.8	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	17.0	6.8	3.4	3.4	0.0	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)