

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: P481774

Luminaire Tested: **IFLD-L-SA8A-760-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481774
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-760-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

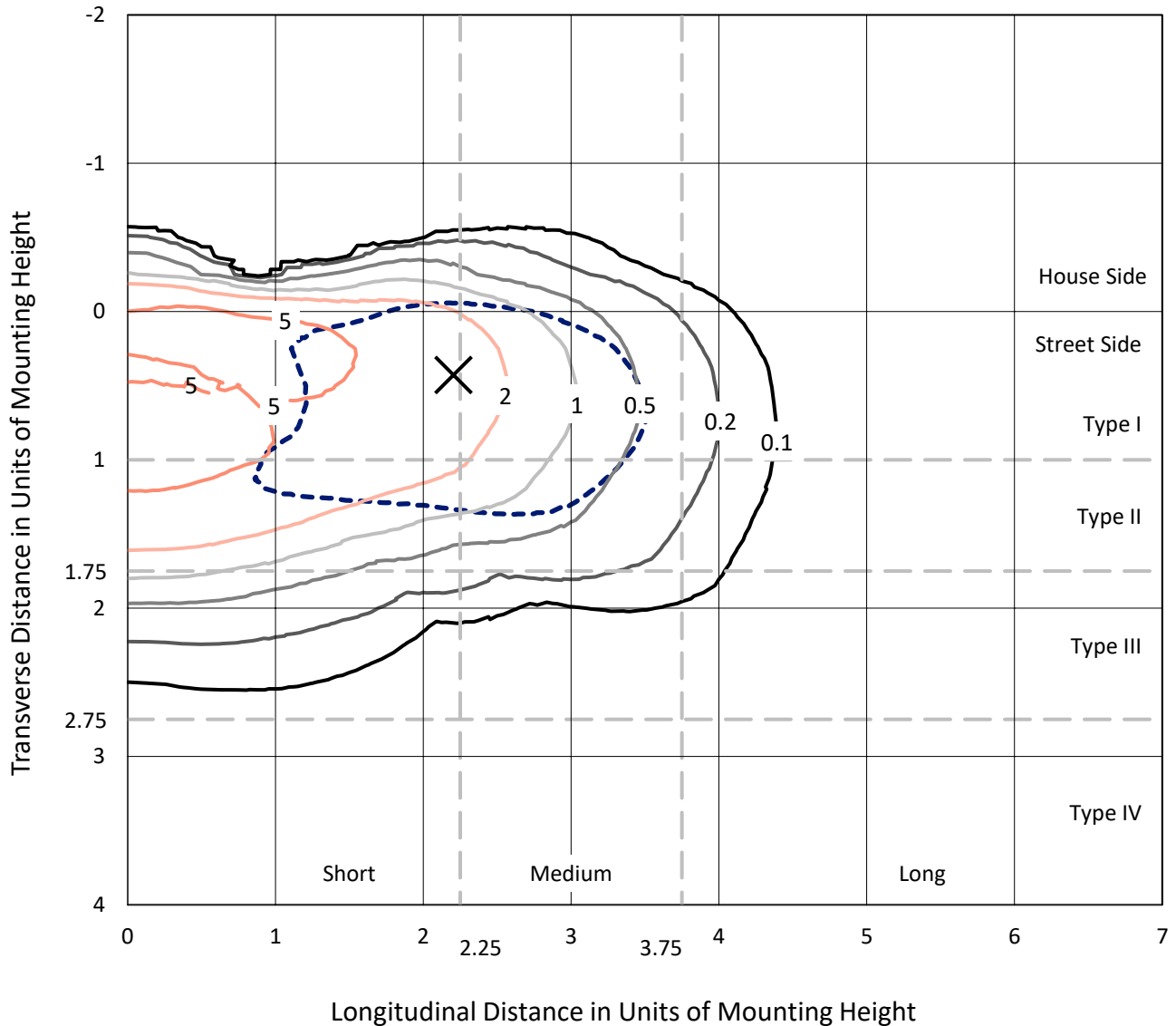
Lumens per Lamp: N/A
Luminaire Lumens: 25234.1 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8
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

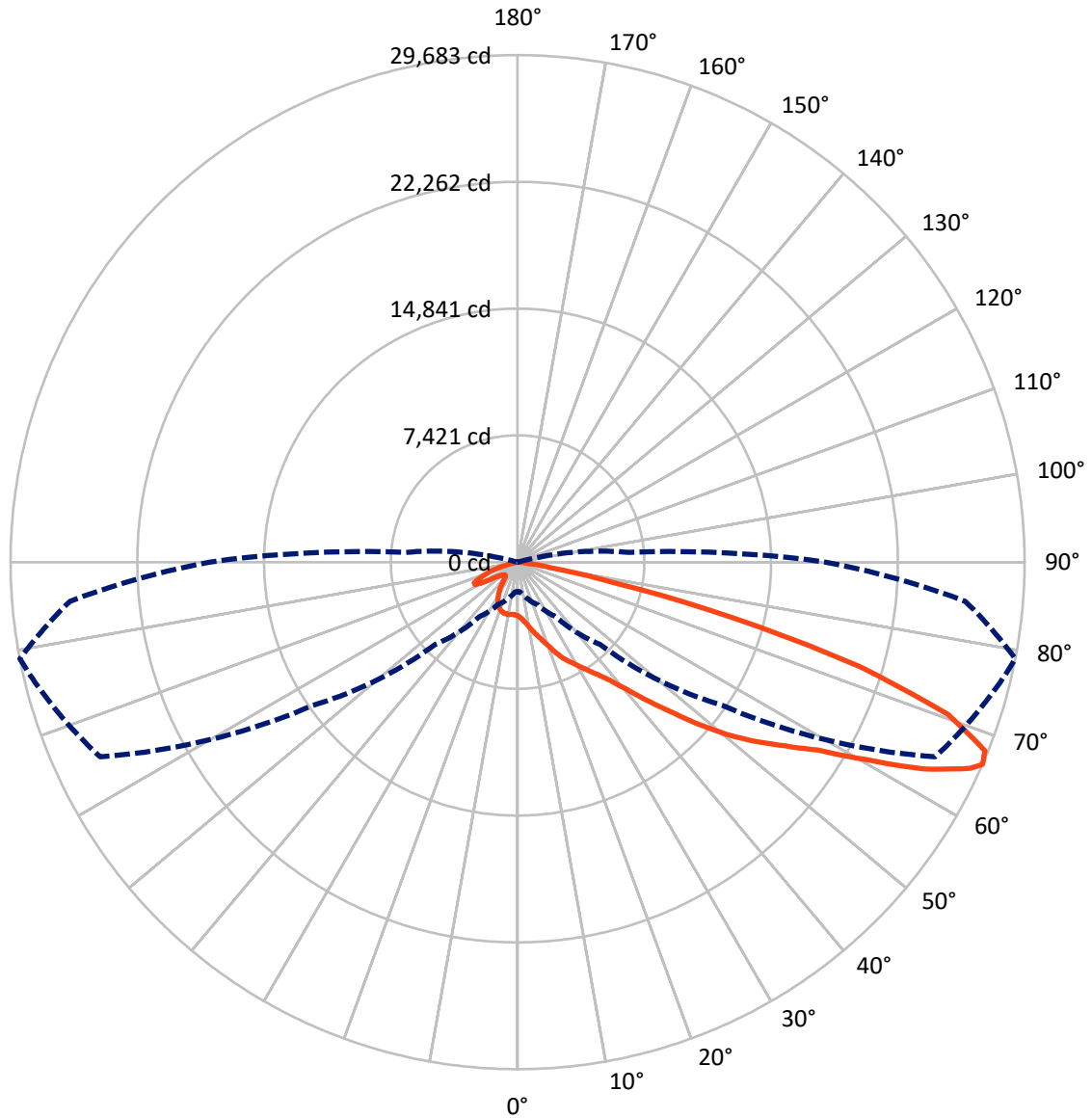
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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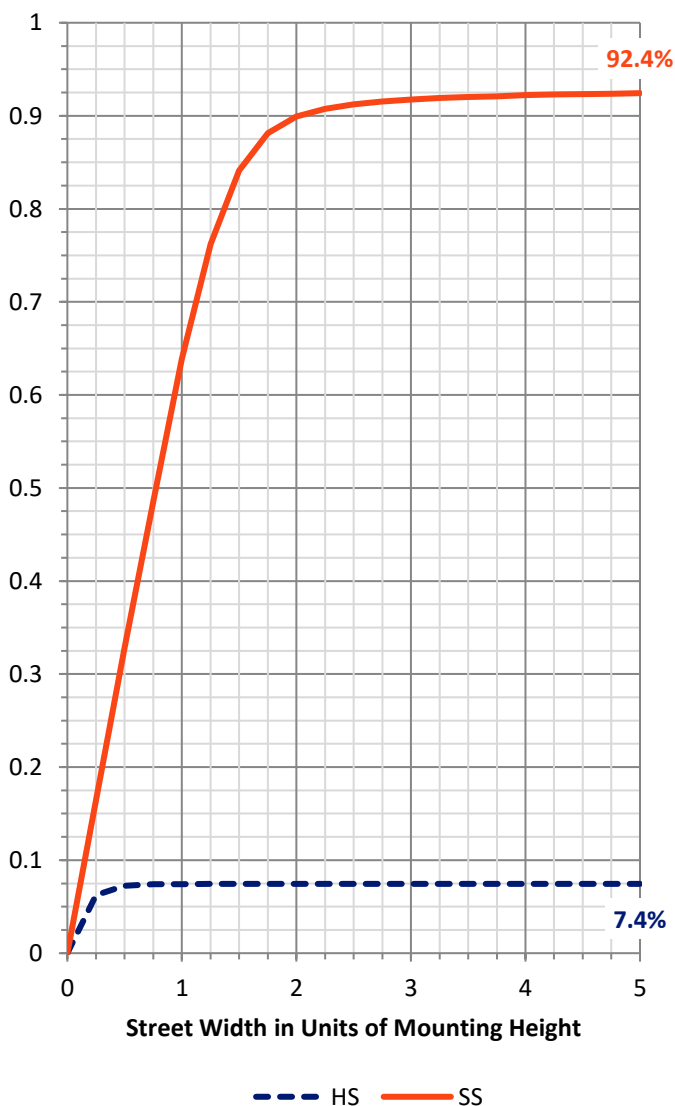
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1894.7	0.0	1894.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	23339.4	0.0	23339.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	25234.1	0.0	25234.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.9	1.2
10°-20°	817.1	3.2
20°-30°	1357.4	5.4
30°-40°	2331.6	9.2
40°-50°	4223.9	16.7
50°-60°	6676.8	26.5
60°-70°	6794.2	26.9
70°-80°	2591.0	10.3
80°-90°	145.3	0.6
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°	25234.1	100.0
0°-180°	25234.1	100.0

Coefficient of Utilization



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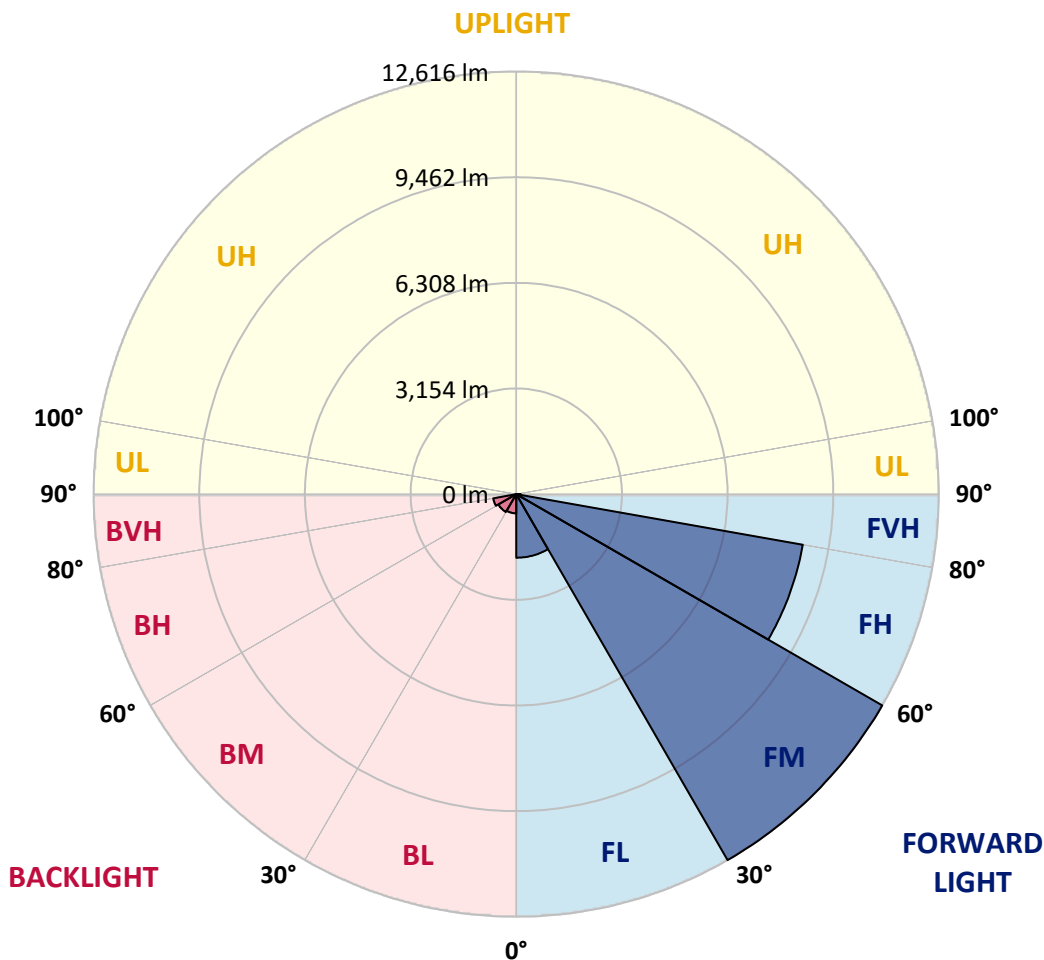
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1898.4	7.5			
FM (30°-60°)	12616.5	50.0			
FH (60°-80°)	8686.6	34.4			G4/12000
FVH (80°-90°)	137.8	0.5			G2/225
BL (0°-30°)	573.0	2.3	B2/1000		
BM (30°-60°)	615.8	2.4	B1/1000		
BH (60°-80°)	698.5	2.8	B2/1000		G2/1000
BVH (80°-90°)	7.4	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4
2.5°	3555.7	3551.8	3536.2	3509.0	3474.0	3462.3	3411.7	3341.7	3302.8	3260.0	3240.6
5°	3800.8	3781.3	3828.0	3808.6	3816.3	3723.0	3660.7	3610.2	3462.3	3404.0	3310.6
7.5°	3855.2	3874.7	3870.8	3901.9	3933.0	3968.1	3925.3	3851.3	3703.5	3617.9	3516.8
10°	3855.2	3847.5	3878.6	3921.4	4010.8	4088.7	4205.4	4108.1	3995.3	3894.1	3711.3
12.5°	3785.2	3773.5	3804.7	3894.1	4053.6	4213.1	4341.5	4434.9	4275.4	4193.7	3956.4
15°	3571.2	3559.6	3688.0	3847.5	4057.5	4318.2	4586.6	4738.3	4629.4	4501.0	4236.5
17.5°	3306.7	3322.3	3458.4	3723.0	4057.5	4368.8	4711.1	5041.8	5026.2	4862.8	4586.6
20°	3217.2	3228.9	3365.1	3555.7	3936.9	4403.8	4905.6	5372.4	5465.8	5271.3	4909.5
22.5°	3388.4	3376.7	3388.4	3505.1	3855.2	4372.6	5034.0	5749.8	5917.1	5765.4	5333.5
25°	3971.9	3964.2	3866.9	3688.0	3808.6	4302.6	5100.1	5998.8	6383.9	6243.9	5675.9
27.5°	4827.8	4796.7	4645.0	4271.5	4026.4	4345.4	5209.0	6240.0	6792.4	6632.9	5983.2
30°	5745.9	5672.0	5473.6	5006.8	4590.5	4504.9	5271.3	6418.9	7247.5	7045.2	6251.6
32.5°	6380.0	6477.3	6415.0	5940.4	5302.4	4874.5	5372.4	6644.5	7667.7	7535.4	6710.7
35°	7360.4	7473.2	7212.5	6792.4	6150.5	5461.9	5586.4	6827.4	8313.5	8091.7	7138.6
37.5°	8597.5	8683.0	8496.3	7698.8	7021.9	6185.5	6026.0	7208.6	8869.8	8764.7	7687.1
40°	9219.9	9632.3	9367.7	8648.0	7920.5	7197.0	6753.5	7656.0	9838.4	9752.9	8445.7
42.5°	10079.6	10285.8	10149.7	9616.7	8858.1	8278.5	7652.1	8527.4	11013.3	11013.3	9472.8
45°	10990.0	10997.7	10990.0	10554.2	9881.2	9581.7	8865.9	9620.6	12277.6	12417.7	10702.1
47.5°	11736.9	11970.3	11950.8	11690.2	11168.9	11056.1	10079.6	10865.5	13864.8	14109.9	11900.3
50°	12122.0	12382.7	12460.5	12596.6	12573.3	12810.6	11406.2	12308.8	15234.2	15837.2	13440.8
52.5°	12017.0	12036.4	12514.9	13051.8	13907.6	14572.9	13005.1	13946.5	16837.0	17432.2	14631.2
55°	11157.2	11083.3	12067.6	12682.2	14452.3	15650.5	15218.7	15988.9	18085.8	18992.2	15860.5
57.5°	9270.5	9289.9	10200.2	11449.0	14047.7	16078.4	17583.9	18657.6	19836.4	20750.6	17587.8
60°	6399.5	6376.1	7395.4	8838.6	11670.7	15280.9	18945.5	22116.1	22178.3	23473.8	20688.3
62.5°	3598.5	3606.3	4380.4	5613.6	8165.6	12487.7	18879.4	25788.5	25523.9	26659.9	24212.9
65°	2038.5	2089.1	2622.0	3326.2	4890.0	8383.5	16237.9	27251.2	28103.2	29114.6	26352.6
66°	1723.4	1758.4	2213.6	2746.5	3901.9	6800.2	14615.7	26967.2	28912.3	29682.6	26309.8
67.5°	1334.4	1381.0	1762.3	2178.5	2863.2	4707.2	11764.1	25555.1	29060.2	29511.4	25566.7
70°	914.2	945.3	1237.1	1653.4	1956.8	2408.1	7033.6	21127.9	26368.1	26749.4	22221.1
72.5°	641.9	657.5	867.5	1252.7	1505.5	1377.1	3489.6	15031.9	20178.7	20921.8	17284.4
75°	462.9	478.5	595.2	898.6	1174.9	902.5	1598.9	9601.1	12374.9	12958.4	10410.3
77.5°	334.6	354.0	404.6	579.6	852.0	634.1	785.8	5014.5	5835.4	5734.2	4477.7
80°	202.3	221.7	299.5	373.5	622.4	447.4	431.8	2093.0	2069.6	1964.6	1408.3
82.5°	93.4	108.9	159.5	252.9	435.7	311.2	206.2	746.9	653.6	599.1	396.8
85°	27.2	35.0	93.4	190.6	221.7	151.7	124.5	256.8	268.4	229.5	132.3
87.5°	0.0	3.9	42.8	46.7	66.1	50.6	46.7	66.1	124.5	101.1	42.8
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°	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4	3139.4
2.5°	3170.6	3143.3	3077.2	2976.0	2886.6	2839.9	2773.7	2715.4	2684.3	2680.4	2676.5
5°	3248.4	3174.4	3014.9	2832.1	2695.9	2548.1	2447.0	2373.1	2303.0	2236.9	2275.8
7.5°	3353.4	3236.7	2976.0	2738.7	2443.1	2252.5	2073.5	1968.5	1906.2	1847.9	1840.1
10°	3516.8	3369.0	2948.8	2520.9	2182.4	1902.3	1719.5	1567.8	1482.2	1381.0	1419.9
12.5°	3738.5	3474.0	2847.7	2322.5	1886.8	1591.1	1330.5	1085.4	949.2	844.2	848.1
15°	3960.3	3614.0	2754.3	2081.3	1618.3	1229.3	848.1	680.8	641.9	618.5	626.3
17.5°	4178.1	3726.9	2610.4	1836.2	1311.0	781.9	618.5	583.5	564.1	540.7	540.7
20°	4442.7	3800.8	2431.4	1610.6	902.5	579.6	529.1	505.7	474.6	443.5	447.4
22.5°	4699.4	3863.0	2225.2	1322.7	606.9	501.8	443.5	412.4	385.1	354.0	354.0
25°	4956.2	3882.5	1956.8	949.2	490.2	400.7	346.2	303.4	276.2	249.0	252.9
27.5°	5131.2	3761.9	1703.9	606.9	392.9	303.4	241.2	206.2	182.8	155.6	155.6
30°	5232.4	3540.1	1431.6	427.9	295.7	206.2	143.9	108.9	85.6	66.1	62.2
32.5°	5333.5	3361.2	1124.3	326.8	194.5	108.9	54.5	19.5	0.0	0.0	0.0
35°	5535.8	3158.9	754.7	182.8	66.1	3.9	0.0	0.0	0.0	0.0	0.0
37.5°	5664.2	2878.8	346.2	27.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5987.1	2738.7	85.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6512.3	2641.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7088.0	2602.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7854.4	2707.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8663.6	2991.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9550.6	3260.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10324.7	3582.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11748.6	4345.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	14304.4	5843.2	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	17183.2	6955.8	42.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	18237.5	6928.5	73.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	18050.8	6547.3	73.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	17082.1	5815.9	66.1	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	14670.1	4804.5	66.1	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	11184.5	3742.4	62.2	15.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	6749.6	1991.8	50.6	19.5	7.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2688.2	700.2	38.9	15.6	7.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	727.5	210.1	23.3	15.6	11.7	3.9	0.0	0.0	0.0	0.0	0.0
82.5°	190.6	77.8	19.5	15.6	7.8	3.9	0.0	0.0	0.0	0.0	0.0
85°	73.9	31.1	15.6	11.7	11.7	7.8	3.9	0.0	0.0	0.0	0.0
87.5°	23.3	11.7	11.7	7.8	7.8	3.9	3.9	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)