

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: P482629

Luminaire Tested: **IFLD-L-SA7C-830-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482629
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

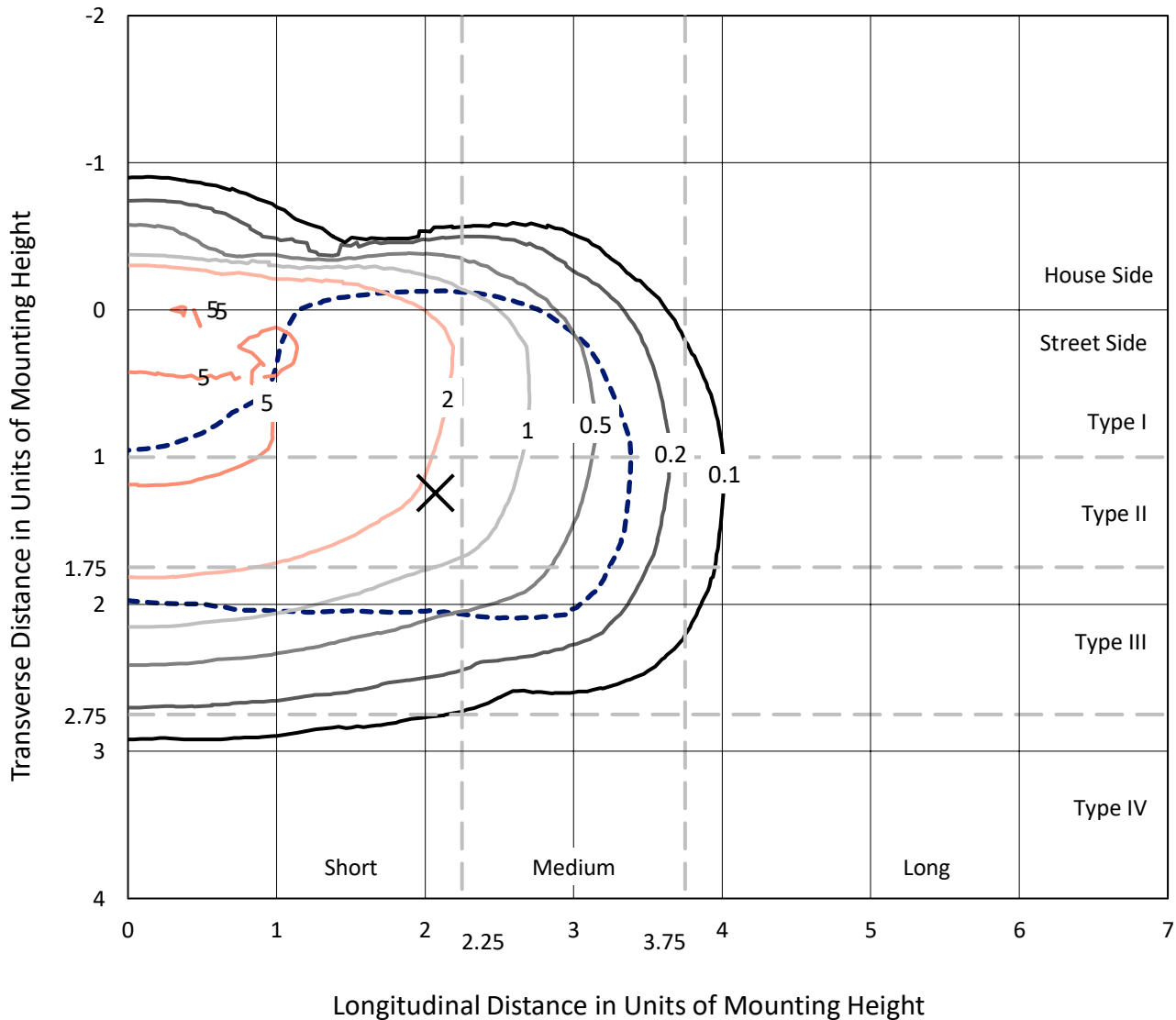
Lumens per Lamp: N/A
Luminaire Lumens: 26138 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 369
Input Voltage (V): 120
Input Current (A_{in}): 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

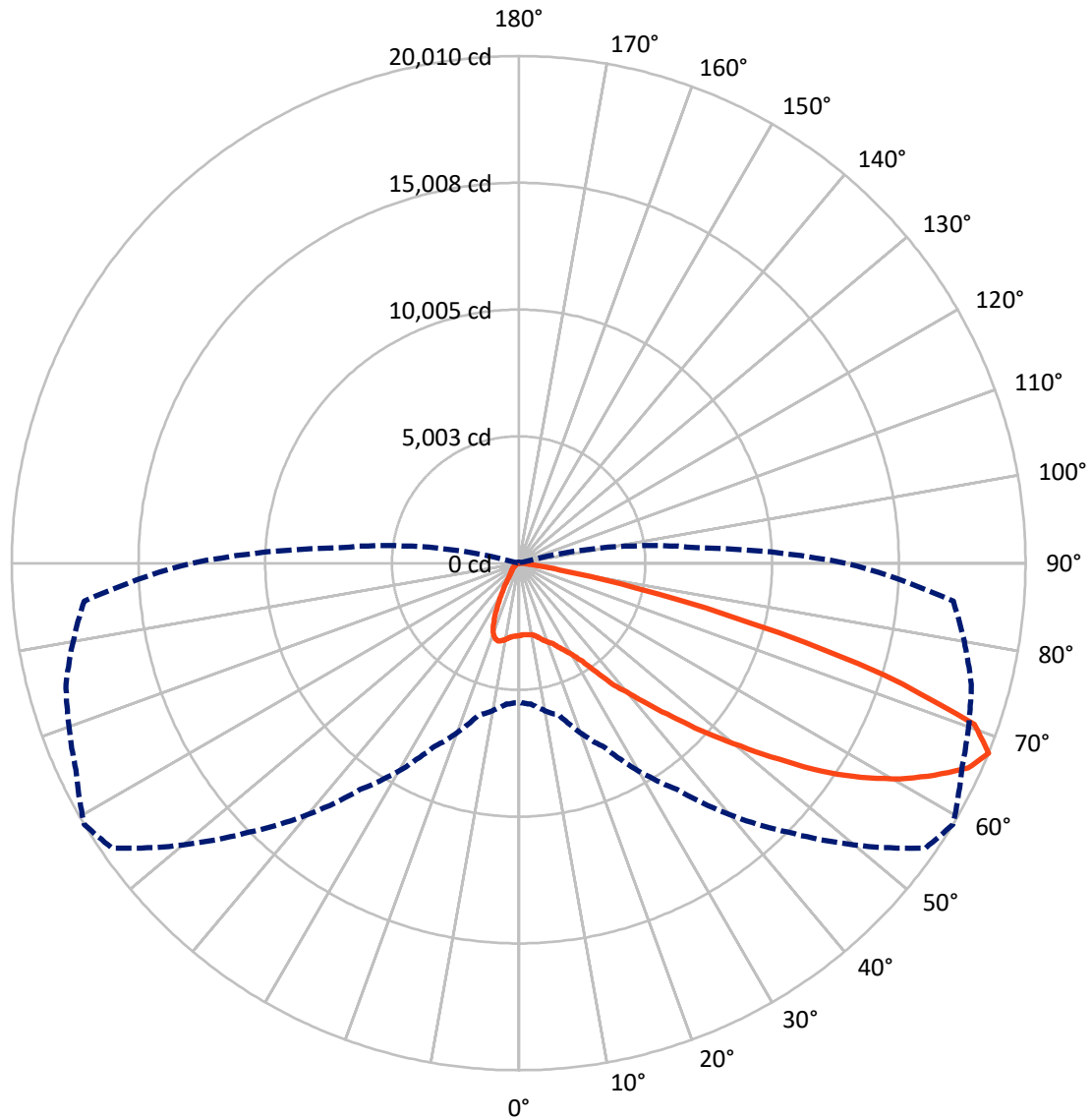
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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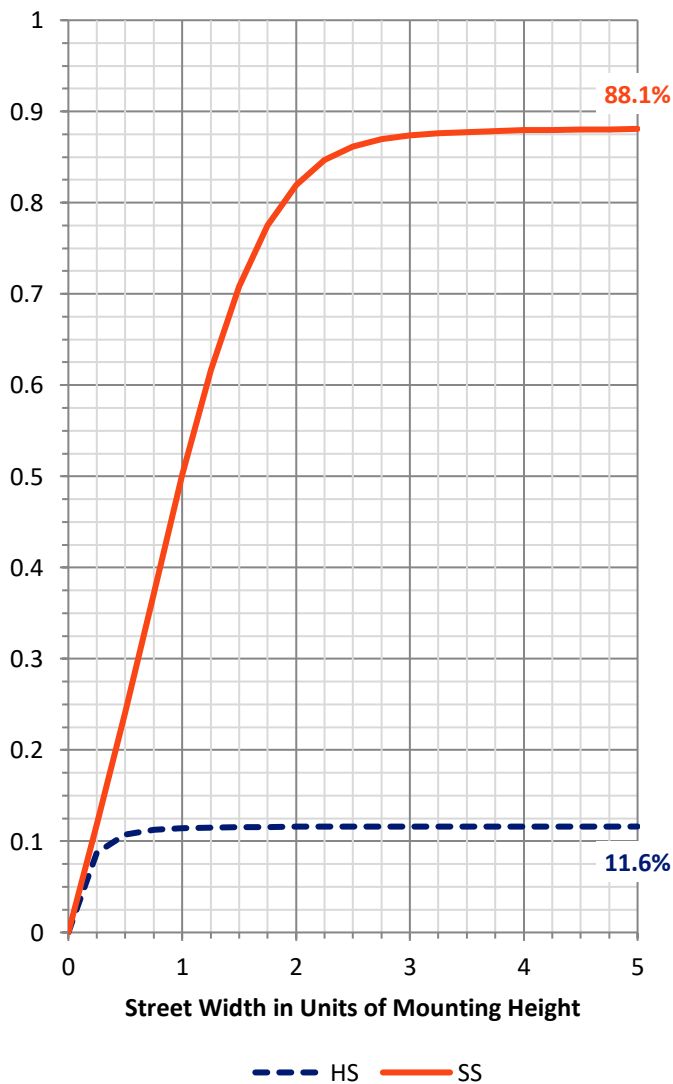
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3070.4	0.0	3070.4
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	23067.7	0.0	23067.7
	% Fixture	88.3	0.0	88.3
Total	Lumens	26138.0	0.0	26138.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.3	1.0
10°-20°	786.6	3.0
20°-30°	1374.8	5.3
30°-40°	2420.6	9.3
40°-50°	4278.8	16.4
50°-60°	6774.8	25.9
60°-70°	7515.1	28.8
70°-80°	2607.6	10.0
80°-90°	107.4	0.4
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°	26138.0	100.0
0°-180°	26138.0	100.0

Coefficient of Utilization

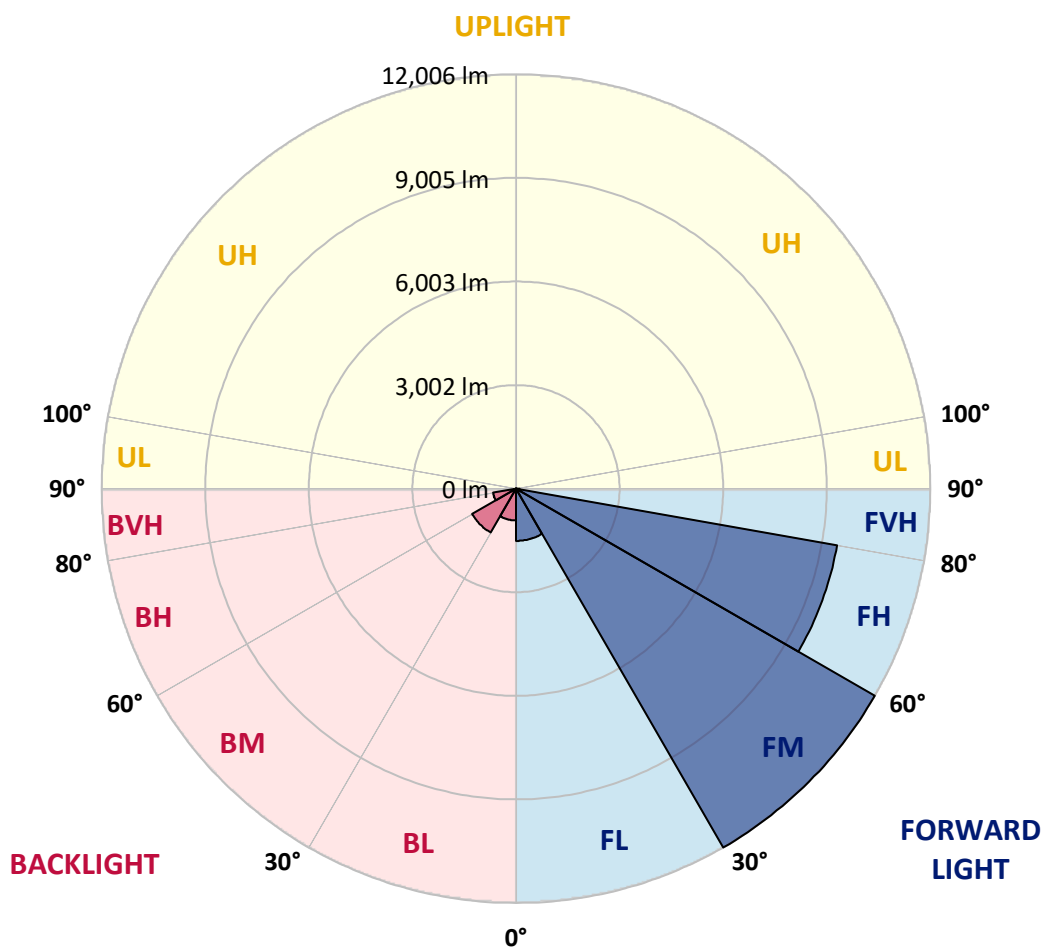


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1513.6	5.8			
FM (30°-60°)	12006.2	45.9			
FH (60°-80°)	9447.5	36.1			G4/12000
FVH (80°-90°)	100.4	0.4			G2/225
BL (0°-30°)	920.2	3.5	B2/1000		
BM (30°-60°)	1468.0	5.6	B2/2500		
BH (60°-80°)	675.2	2.6	B2/1000		G2/1000
BVH (80°-90°)	6.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2866.9	2866.9	2866.9	2866.9	2866.9	2866.9	2866.9	2866.9	2866.9	2866.9	2866.9
2.5°	2783.8	2744.1	2780.2	2783.8	2787.4	2819.9	2856.0	2830.8	2827.2	2856.0	2881.3
5°	2671.9	2653.8	2697.2	2718.8	2754.9	2783.8	2841.6	2845.2	2848.8	2881.3	2924.6
7.5°	2625.0	2581.6	2632.2	2657.5	2682.7	2751.3	2819.9	2856.0	2906.6	2946.3	2989.6
10°	2531.1	2563.6	2578.0	2621.3	2693.6	2773.0	2856.0	2874.1	2986.0	3018.5	3123.2
12.5°	2563.6	2585.2	2614.1	2625.0	2704.4	2823.5	2935.5	2942.7	3058.2	3199.1	3253.2
15°	2646.6	2632.2	2643.0	2657.5	2751.3	2848.8	3029.4	3061.8	3170.2	3329.0	3462.6
17.5°	2823.5	2798.3	2780.2	2776.6	2798.3	2888.5	3101.6	3199.1	3300.2	3516.8	3585.4
20°	3267.7	3246.0	3173.8	2986.0	2921.0	2957.1	3188.2	3325.4	3466.2	3708.2	3820.1
22.5°	3942.9	3964.5	3794.8	3531.2	3260.4	3119.6	3325.4	3444.6	3668.4	3975.3	4076.4
25°	4740.8	4697.5	4491.7	4184.8	3758.7	3426.5	3545.7	3679.3	3953.7	4206.4	4246.1
27.5°	5365.5	5314.9	5156.0	4784.1	4415.8	3877.9	3834.5	3917.6	4242.5	4470.0	4426.7
30°	5982.9	6000.9	5892.6	5452.1	4997.2	4430.3	4155.9	4192.0	4441.1	4733.6	4636.1
32.5°	6770.0	6726.7	6665.3	6279.0	5741.0	5134.4	4665.0	4607.2	4715.5	5101.9	4986.3
35°	7503.0	7477.7	7394.7	7004.7	6535.3	5874.6	5416.0	5286.0	5260.7	5690.4	5488.2
37.5°	8142.1	8098.7	7972.4	7723.2	7268.3	6712.2	6210.4	6094.8	6091.2	6387.3	5997.3
40°	8680.1	8712.5	8698.1	8423.7	8174.6	7730.4	6961.4	6777.2	6762.8	6921.7	6694.2
42.5°	9376.9	9452.7	9413.0	9358.9	9059.2	8885.9	8015.7	7734.1	7607.7	7932.6	7726.8
45°	10431.2	10460.1	10485.4	10351.8	10052.1	10088.2	9106.1	8770.3	8737.8	9221.7	8759.5
47.5°	11416.9	11341.1	11518.0	11525.3	11510.8	11344.7	10283.2	10034.1	10077.4	10445.7	9969.1
50°	11662.5	11857.4	12344.9	12435.1	12669.8	12821.5	11590.3	11341.1	11413.3	11832.2	11287.0
52.5°	11853.8	12149.9	12637.3	13298.1	13930.0	14291.0	13052.6	12850.4	12846.8	13103.1	12352.1
55°	12189.6	12370.2	12792.6	13702.5	14904.8	15497.0	14814.6	14489.6	14197.2	14377.7	13457.0
57.5°	12157.1	12225.7	12882.9	14005.8	15677.5	16753.5	16262.5	15951.9	15576.4	15471.7	14727.9
60°	11586.6	11749.1	12485.7	13800.0	16154.1	17732.0	17612.8	17295.1	16648.8	16403.3	15702.8
62.5°	10456.5	10673.1	11250.8	13077.8	15460.9	17782.5	18544.4	18425.2	17703.1	17262.6	16973.8
65°	8474.2	8575.3	9239.7	11243.6	13893.9	17006.3	19645.7	19497.6	18833.3	18176.1	17627.3
67.5°	5488.2	5585.7	6224.8	8026.5	10911.4	15002.3	19602.3	20010.3	19291.8	18501.1	17219.3
70°	2592.5	2567.2	3162.9	4459.2	6990.3	11456.7	18277.2	19082.4	18472.2	16771.6	14301.9
72.5°	790.7	859.3	1314.3	1975.0	3589.0	7145.5	14327.1	15081.8	14890.4	13399.2	9546.6
75°	350.2	379.1	516.3	808.8	1455.1	2931.9	8849.8	9521.3	9438.3	7903.8	4358.1
77.5°	223.9	245.5	325.0	462.2	660.8	931.6	4076.4	4730.0	4585.6	2776.6	1141.0
80°	158.9	169.7	231.1	317.7	415.2	382.7	1404.6	1668.1	1599.5	754.6	306.9
82.5°	86.7	93.9	169.7	234.7	278.0	195.0	393.6	491.1	512.7	335.8	148.0
85°	32.5	39.7	104.7	166.1	144.4	90.3	115.5	140.8	184.1	184.1	68.6
87.5°	0.0	3.6	43.3	72.2	36.1	25.3	32.5	39.7	50.5	86.7	25.3
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°	2866.9	2866.9	2866.9	2866.9	2866.9	2866.9	2866.9	2866.9	2866.9	2866.9	2866.9
2.5°	2899.4	2874.1	2884.9	2903.0	2863.3	2884.9	2841.6	2874.1	2884.9	2841.6	2863.3
5°	2935.5	2960.7	2946.3	2917.4	2892.1	2899.4	2888.5	2863.3	2884.9	2892.1	2877.7
7.5°	3040.2	3011.3	3018.5	2986.0	2935.5	2931.9	2863.3	2845.2	2852.4	2859.7	2834.4
10°	3137.7	3155.7	3119.6	3094.3	3011.3	2957.1	2863.3	2762.2	2751.3	2708.0	2744.1
12.5°	3311.0	3267.7	3253.2	3170.2	3087.1	2906.6	2704.4	2549.1	2419.1	2372.2	2325.3
15°	3455.4	3448.2	3422.9	3296.5	3105.2	2776.6	2393.9	2032.8	1783.7	1628.4	1606.7
17.5°	3654.0	3621.5	3574.6	3376.0	2971.6	2437.2	1783.7	1328.7	1079.6	982.1	946.0
20°	3805.6	3780.4	3715.4	3357.9	2729.7	1816.2	1104.9	844.9	783.5	765.5	769.1
22.5°	4025.9	3946.5	3823.7	3267.7	2289.2	1209.6	794.3	754.6	743.8	729.4	733.0
25°	4217.3	4145.0	3888.7	3112.4	1632.0	801.6	736.6	714.9	696.9	678.8	675.2
27.5°	4387.0	4296.7	3957.3	2794.7	1021.8	689.6	682.4	657.1	621.0	592.1	581.3
30°	4553.1	4448.3	3975.3	2198.9	689.6	624.6	606.6	566.9	519.9	480.2	473.0
32.5°	4831.1	4704.7	3950.1	1570.6	595.8	556.0	516.3	469.4	400.8	368.3	361.1
35°	5264.4	5073.0	3917.6	924.3	534.4	491.1	429.7	368.3	317.7	285.2	278.0
37.5°	5762.6	5430.4	3823.7	617.4	491.1	433.3	353.8	292.5	249.1	223.9	216.6
40°	6502.8	5954.0	3462.6	505.5	436.9	368.3	285.2	231.1	198.6	180.5	173.3
42.5°	7318.8	6553.4	2906.6	454.9	386.3	314.1	227.5	187.8	162.5	144.4	144.4
45°	8297.3	7178.0	2242.2	415.2	343.0	260.0	187.8	151.6	130.0	115.5	108.3
47.5°	9387.7	7744.9	1512.9	375.5	288.9	213.0	155.3	115.5	93.9	83.0	83.0
50°	10362.6	8246.8	964.0	328.6	252.7	176.9	126.4	93.9	75.8	61.4	57.8
52.5°	11247.2	8629.5	664.4	288.9	216.6	144.4	104.7	75.8	57.8	46.9	46.9
55°	12153.5	8824.5	491.1	249.1	187.8	122.8	86.7	68.6	50.5	39.7	36.1
57.5°	12897.3	8907.5	375.5	216.6	158.9	97.5	75.8	57.8	43.3	32.5	28.9
60°	13532.8	8867.8	292.5	180.5	126.4	83.0	65.0	46.9	36.1	25.3	21.7
62.5°	13904.7	8629.5	231.1	155.3	101.1	72.2	54.2	39.7	25.3	18.1	14.4
65°	13911.9	8124.0	180.5	115.5	75.8	61.4	46.9	32.5	18.1	7.2	3.6
67.5°	12915.4	7030.0	144.4	90.3	61.4	46.9	36.1	25.3	7.2	0.0	0.0
70°	10102.7	5318.5	119.2	72.2	50.5	39.7	25.3	14.4	3.6	0.0	0.0
72.5°	6437.8	3184.6	97.5	57.8	43.3	28.9	18.1	10.8	0.0	0.0	0.0
75°	2693.6	982.1	75.8	50.5	32.5	21.7	14.4	3.6	0.0	0.0	0.0
77.5°	693.2	310.5	61.4	43.3	32.5	18.1	10.8	3.6	0.0	0.0	0.0
80°	205.8	115.5	50.5	36.1	25.3	14.4	7.2	3.6	0.0	0.0	0.0
82.5°	93.9	68.6	43.3	32.5	21.7	14.4	7.2	0.0	0.0	0.0	0.0
85°	36.1	21.7	21.7	18.1	18.1	10.8	3.6	0.0	0.0	0.0	0.0
87.5°	14.4	7.2	7.2	7.2	3.6	3.6	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)