

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: P483911

Luminaire Tested: **IFLD-M-SA4C-727-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483911
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-727-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

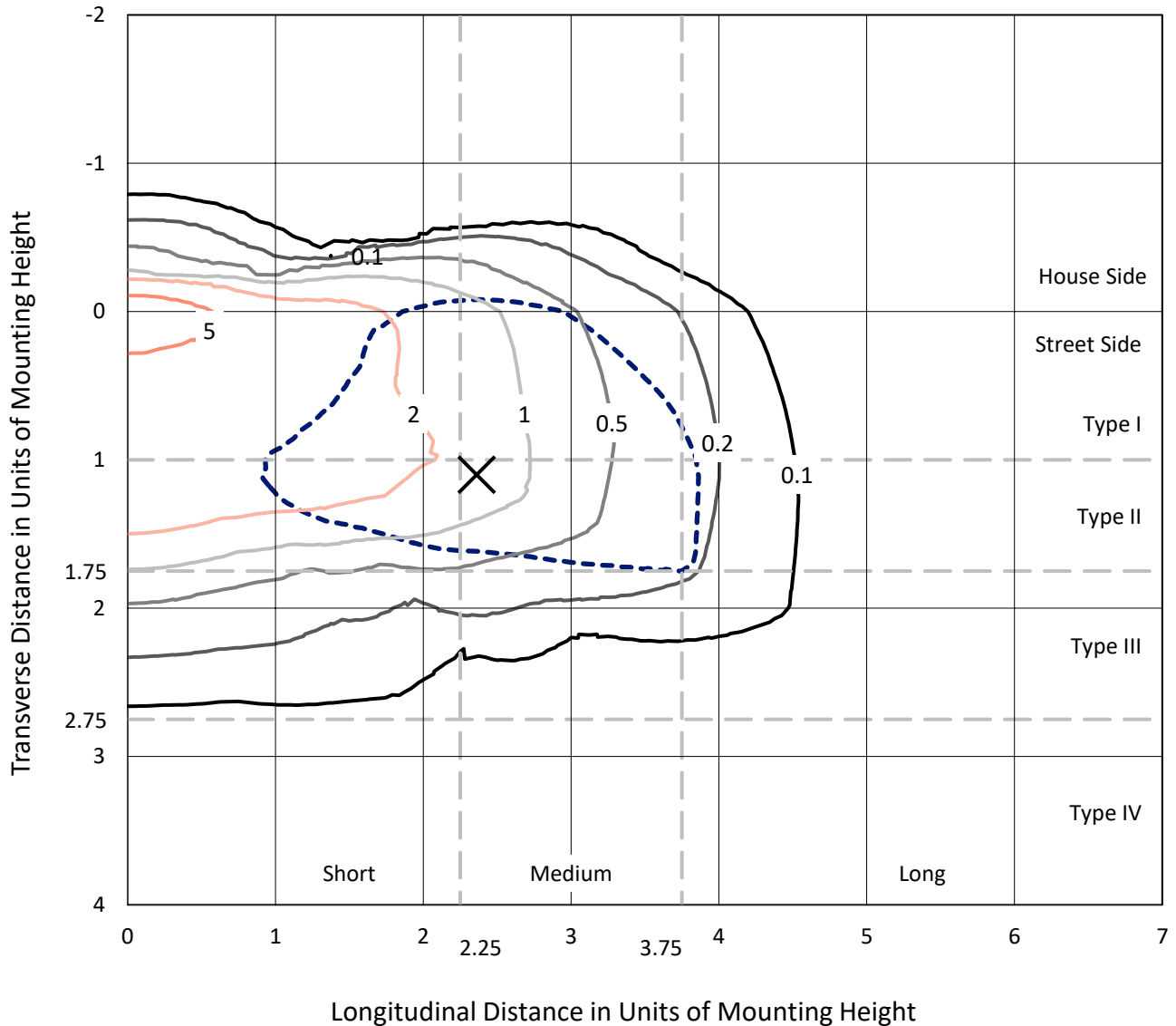
Lumens per Lamp: N/A
Luminaire Lumens: 19570.1 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 218.1
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

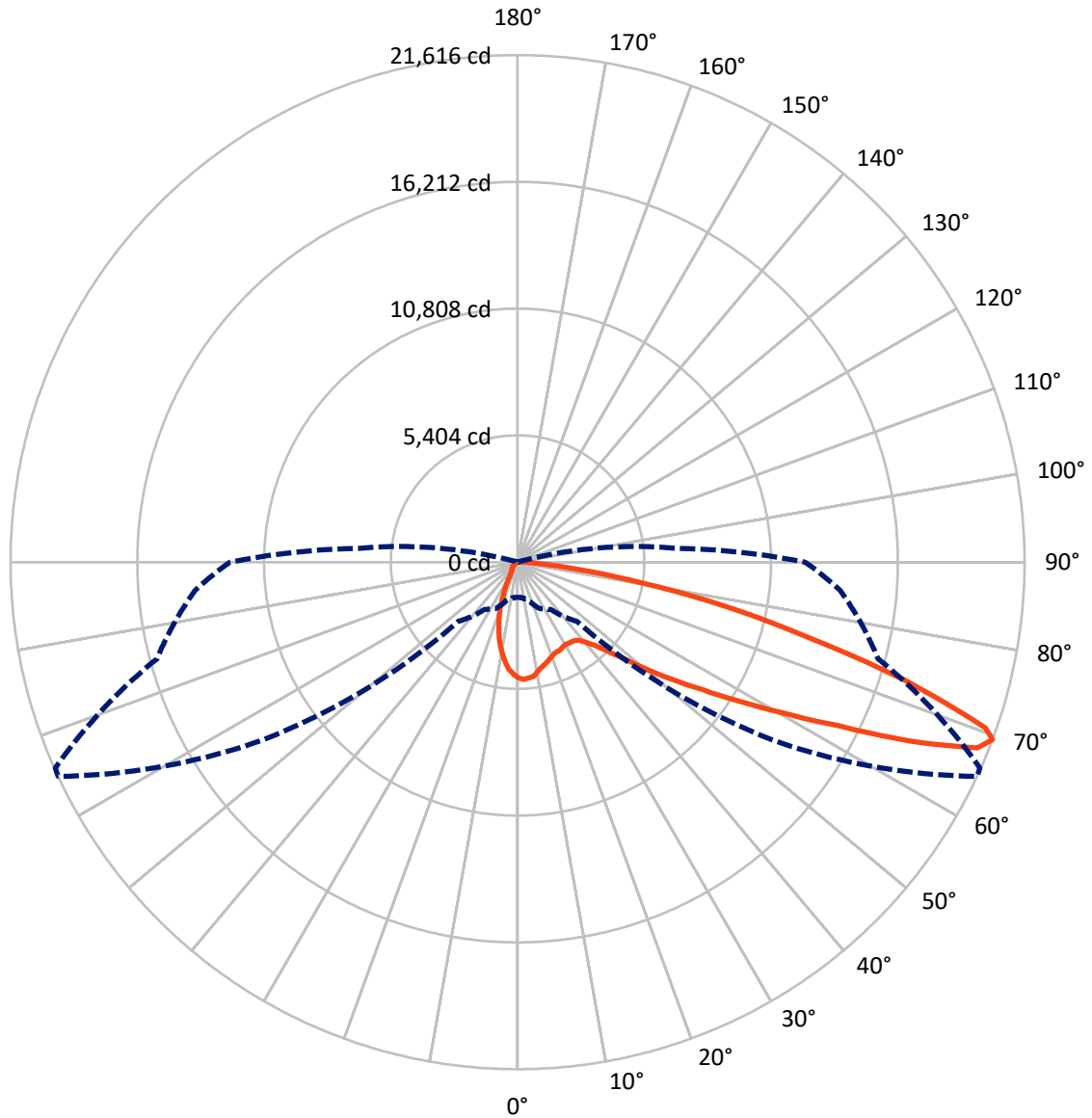
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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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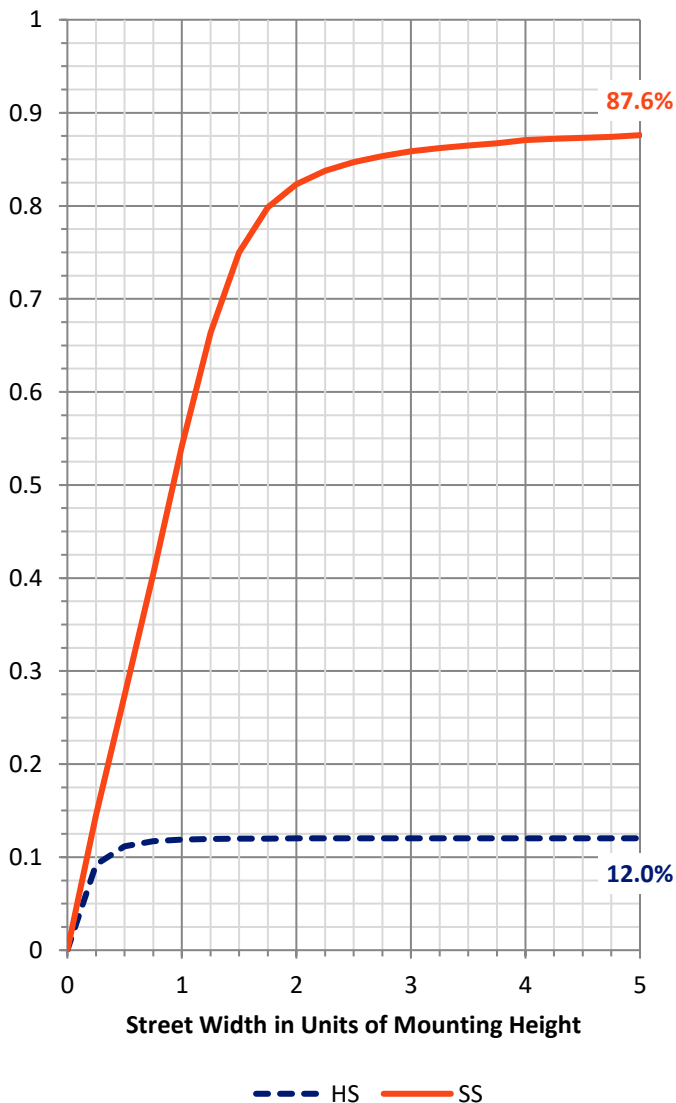
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2374.0	0.0	2374.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	17196.1	0.0	17196.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	19570.1	0.0	19570.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.8	2.1
10°-20°	883.4	4.5
20°-30°	1229.9	6.3
30°-40°	1743.0	8.9
40°-50°	2746.8	14.0
50°-60°	4457.1	22.8
60°-70°	4977.7	25.4
70°-80°	2803.0	14.3
80°-90°	325.3	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°	19570.1	100.0
0°-180°	19570.1	100.0



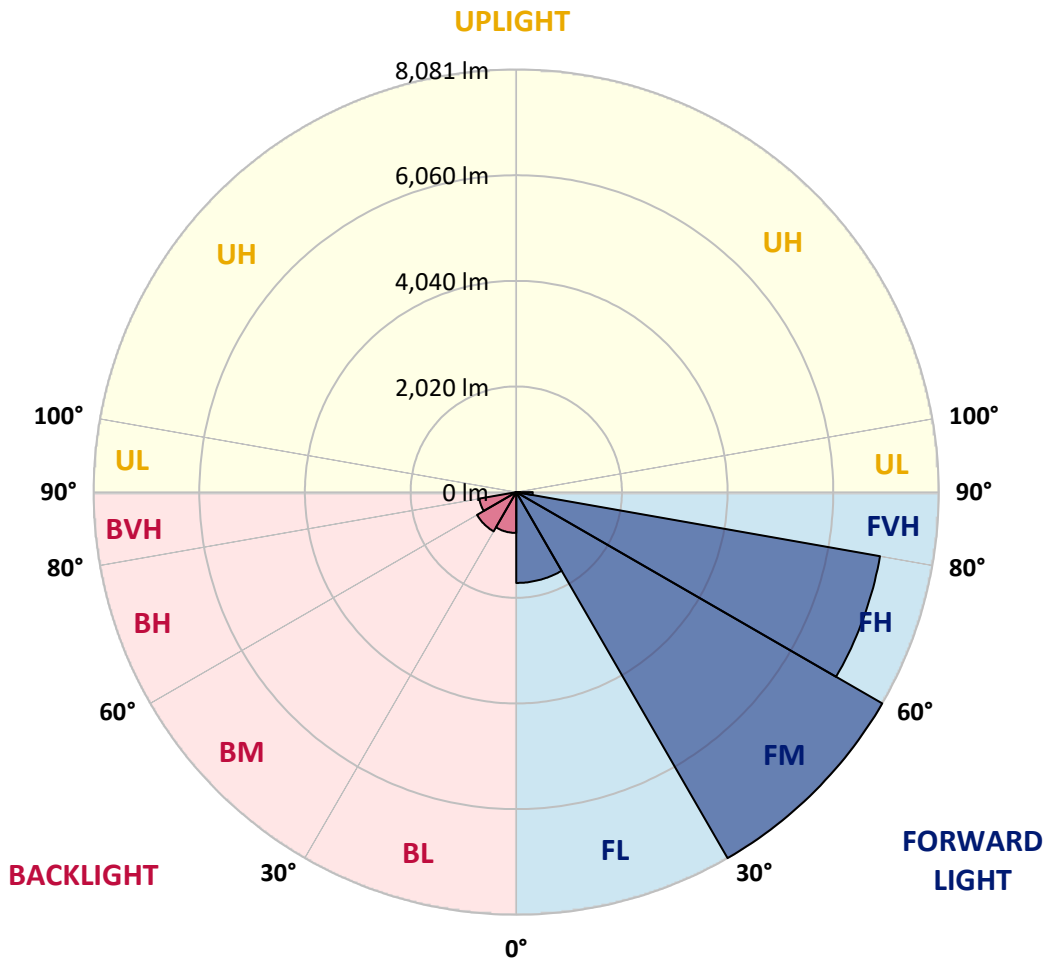
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1736.7	8.9			
FM (30°-60°)	8080.7	41.3			
FH (60°-80°)	7062.5	36.1			G3/7500
FVH (80°-90°)	316.3	1.6			G3/500
BL (0°-30°)	780.5	4.0	B2/1000		
BM (30°-60°)	866.2	4.4	B1/1000		
BH (60°-80°)	718.3	3.7	B2/1000		G2/1000
BVH (80°-90°)	9.0	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4934.1	4934.1	4934.1	4934.1	4934.1	4934.1	4934.1	4934.1	4934.1	4934.1	4934.1
2.5°	4751.9	4788.9	4799.4	4836.4	4854.9	4934.1	4978.9	5005.3	4992.1	5021.2	5023.8
5°	4414.0	4392.9	4448.3	4487.9	4572.4	4709.7	4849.6	4957.8	5008.0	5055.5	5047.6
7.5°	4052.3	4041.8	4097.2	4187.0	4263.5	4429.8	4654.2	4920.9	4910.3	5026.5	5060.8
10°	3804.2	3814.7	3833.2	3923.0	4036.5	4205.4	4485.3	4733.4	4788.9	5034.4	5103.0
12.5°	3577.1	3595.6	3629.9	3722.3	3854.3	4028.6	4300.5	4590.9	4675.4	4989.5	5126.8
15°	3503.2	3461.0	3529.6	3598.3	3735.5	3891.3	4121.0	4482.6	4519.6	4936.7	5166.4
17.5°	3442.5	3416.1	3447.8	3503.2	3648.4	3775.1	3991.6	4366.5	4435.1	4915.6	5161.1
20°	3461.0	3437.2	3450.4	3492.7	3558.7	3677.5	3878.1	4255.6	4329.5	4817.9	5153.2
22.5°	3513.8	3532.3	3508.5	3519.1	3540.2	3600.9	3817.4	4176.4	4239.8	4799.4	5198.1
25°	3751.4	3719.7	3688.0	3674.8	3550.7	3577.1	3798.9	4171.1	4216.0	4733.4	5161.1
27.5°	3999.5	3973.1	3959.9	3883.4	3714.4	3635.2	3801.5	4097.2	4157.9	4707.0	5116.2
30°	4300.5	4334.8	4282.0	4189.6	3954.6	3759.3	3830.6	4060.2	4144.7	4606.7	5087.2
32.5°	4617.3	4635.8	4662.2	4593.5	4289.9	3946.7	3917.7	4094.6	4099.8	4606.7	5021.2
35°	4976.3	4949.9	5018.5	5023.8	4757.2	4279.4	4084.0	4118.3	4173.8	4585.6	4997.4
37.5°	5285.2	5330.1	5409.3	5536.0	5261.4	4749.3	4342.7	4229.2	4253.0	4683.3	5015.9
40°	5623.1	5668.0	5847.5	5974.2	5818.4	5277.3	4736.1	4487.9	4506.4	4828.5	5110.9
42.5°	5995.3	6082.4	6296.3	6518.0	6475.8	5947.8	5242.9	4868.1	4860.1	5190.1	5306.3
45°	6499.6	6615.7	6848.0	7104.1	7141.1	6716.0	5918.8	5435.7	5462.1	5662.7	5710.2
47.5°	7201.8	7196.5	7423.5	7708.7	7922.5	7513.3	6726.6	6198.6	6196.0	6409.8	6309.5
50°	7880.3	7882.9	7943.6	8273.6	8828.0	8619.4	7727.1	7212.3	7183.3	7288.9	7127.9
52.5°	8194.4	8157.4	8112.6	8511.2	9524.9	10013.3	8994.3	8360.7	8337.0	8273.6	8231.4
55°	7864.4	7877.6	7875.0	8289.4	9891.9	11483.8	10620.5	9625.3	9585.7	9387.7	9445.7
57.5°	6805.8	6763.6	6855.9	7502.7	9472.1	12487.0	12946.3	11219.8	11116.8	10459.5	10327.5
60°	5066.1	5079.3	5155.8	5918.8	8429.4	12698.2	15171.8	13091.5	12648.0	11214.5	11032.4
62.5°	3537.5	3511.1	3540.2	3967.8	6027.0	11853.4	16676.6	15367.1	14939.5	12072.5	11966.9
65°	2531.7	2497.4	2613.6	2874.9	3619.4	9062.9	16890.4	18397.8	18015.0	13442.6	13189.2
67.5°	1821.6	1816.3	1950.9	2426.1	2571.3	5219.2	15306.4	21143.4	20911.0	15068.8	13933.7
69°	1507.4	1510.1	1639.4	2172.7	2455.2	3563.9	13170.7	21615.9	21573.7	15908.3	13793.7
70°	1314.7	1325.3	1475.7	2022.2	2407.6	2930.3	11354.4	21151.3	21109.0	16072.0	13331.7
72.5°	810.5	818.4	1016.4	1620.9	2288.8	2391.8	6790.0	17304.9	17450.1	15322.3	11486.4
75°	388.1	390.7	533.3	1172.1	2207.0	2267.7	3637.9	12769.4	13075.7	12370.8	8975.8
77.5°	205.9	205.9	256.1	623.0	1787.2	2133.1	2159.5	9007.5	9260.9	7822.2	5103.0
80°	103.0	105.6	155.8	324.7	1108.8	2090.8	1686.9	5372.3	5509.6	3191.7	1589.2
82.5°	39.6	42.2	73.9	195.4	575.5	1766.1	1481.0	2642.6	2608.3	747.1	388.1
85°	5.3	5.3	26.4	116.2	245.5	778.8	1222.3	1103.5	1066.5	163.7	187.4
87.5°	0.0	0.0	5.3	34.3	73.9	227.0	472.6	303.6	337.9	44.9	92.4
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°	4934.1	4934.1	4934.1	4934.1	4934.1	4934.1	4934.1	4934.1	4934.1	4934.1	4934.1
2.5°	5010.6	4955.2	4870.7	4788.9	4701.8	4596.2	4480.0	4437.8	4363.8	4358.6	4400.8
5°	5005.3	4915.6	4767.7	4593.5	4345.4	4157.9	3954.6	3806.8	3693.3	3619.4	3637.9
7.5°	5031.7	4923.5	4667.4	4292.6	3973.1	3600.9	3286.7	3070.3	2872.3	2774.6	2764.0
10°	4989.5	4844.3	4469.4	3944.1	3474.2	2954.1	2494.8	2204.4	1908.7	1800.4	1805.7
12.5°	5013.3	4810.0	4255.6	3585.1	2938.3	2262.4	1713.3	1317.3	1040.1	950.4	939.8
15°	5029.1	4736.1	4049.7	3154.7	2344.3	1541.7	992.6	747.1	660.0	644.1	641.5
17.5°	4968.4	4646.3	3759.3	2729.7	1737.1	937.2	660.0	609.8	594.0	583.4	578.1
20°	4965.7	4593.5	3508.5	2294.1	1158.9	638.9	570.2	551.7	528.0	520.1	520.1
22.5°	4920.9	4482.6	3207.5	1816.3	739.2	549.1	512.2	483.1	456.7	446.2	443.5
25°	4907.7	4353.3	2925.1	1364.9	562.3	491.0	454.1	411.8	380.2	364.3	356.4
27.5°	4870.7	4242.4	2639.9	960.9	491.0	438.2	390.7	345.8	308.9	285.1	282.5
30°	4738.7	4126.2	2323.2	665.3	446.2	388.1	335.3	282.5	245.5	229.7	224.4
32.5°	4683.3	4018.0	1977.3	512.2	406.6	343.2	282.5	235.0	205.9	190.1	187.4
35°	4617.3	3859.6	1642.0	446.2	369.6	298.3	237.6	198.0	174.2	161.0	161.0
37.5°	4625.2	3732.9	1327.9	403.9	330.0	256.1	203.3	169.0	147.8	134.6	134.6
40°	4601.4	3632.6	1032.2	367.0	293.0	219.1	171.6	142.6	124.1	110.9	108.2
42.5°	4709.7	3606.2	778.8	335.3	256.1	187.4	147.8	121.4	103.0	87.1	87.1
45°	4891.8	3648.4	607.2	306.2	219.1	161.0	126.7	100.3	81.8	71.3	68.6
47.5°	5377.6	3814.7	475.2	282.5	187.4	139.9	105.6	81.8	66.0	55.4	52.8
50°	6082.4	4187.0	403.9	248.2	158.4	118.8	87.1	63.4	52.8	42.2	39.6
52.5°	7085.6	4812.6	367.0	219.1	132.0	97.7	68.6	50.2	39.6	31.7	29.0
55°	8178.6	5594.1	332.6	184.8	110.9	79.2	55.4	39.6	29.0	21.1	18.5
57.5°	9031.3	6269.9	303.6	153.1	89.8	63.4	42.2	29.0	21.1	13.2	10.6
60°	9963.2	6745.1	266.6	121.4	73.9	47.5	31.7	21.1	15.8	7.9	7.9
62.5°	10924.1	7302.1	219.1	95.0	58.1	37.0	23.8	15.8	10.6	2.6	2.6
65°	12259.9	7737.7	169.0	73.9	44.9	26.4	18.5	13.2	5.3	0.0	0.0
67.5°	12637.4	7523.9	124.1	58.1	31.7	18.5	13.2	7.9	2.6	0.0	0.0
69°	12259.9	6776.8	108.2	50.2	26.4	15.8	10.6	5.3	2.6	0.0	0.0
70°	11570.9	6196.0	95.0	42.2	23.8	15.8	7.9	5.3	2.6	0.0	0.0
72.5°	9678.1	4751.9	73.9	31.7	18.5	13.2	7.9	5.3	0.0	0.0	0.0
75°	7098.8	2935.6	55.4	23.8	15.8	10.6	7.9	5.3	0.0	0.0	0.0
77.5°	3804.2	1071.8	39.6	15.8	10.6	7.9	7.9	5.3	0.0	0.0	0.0
80°	1042.8	316.8	29.0	10.6	7.9	5.3	5.3	2.6	0.0	0.0	0.0
82.5°	285.1	81.8	18.5	10.6	7.9	5.3	2.6	0.0	0.0	0.0	0.0
85°	153.1	31.7	10.6	7.9	5.3	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	79.2	10.6	7.9	5.3	5.3	2.6	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)