

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: P484806

Luminaire Tested: **IFLD-M-SA4A-740-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484806
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-740-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

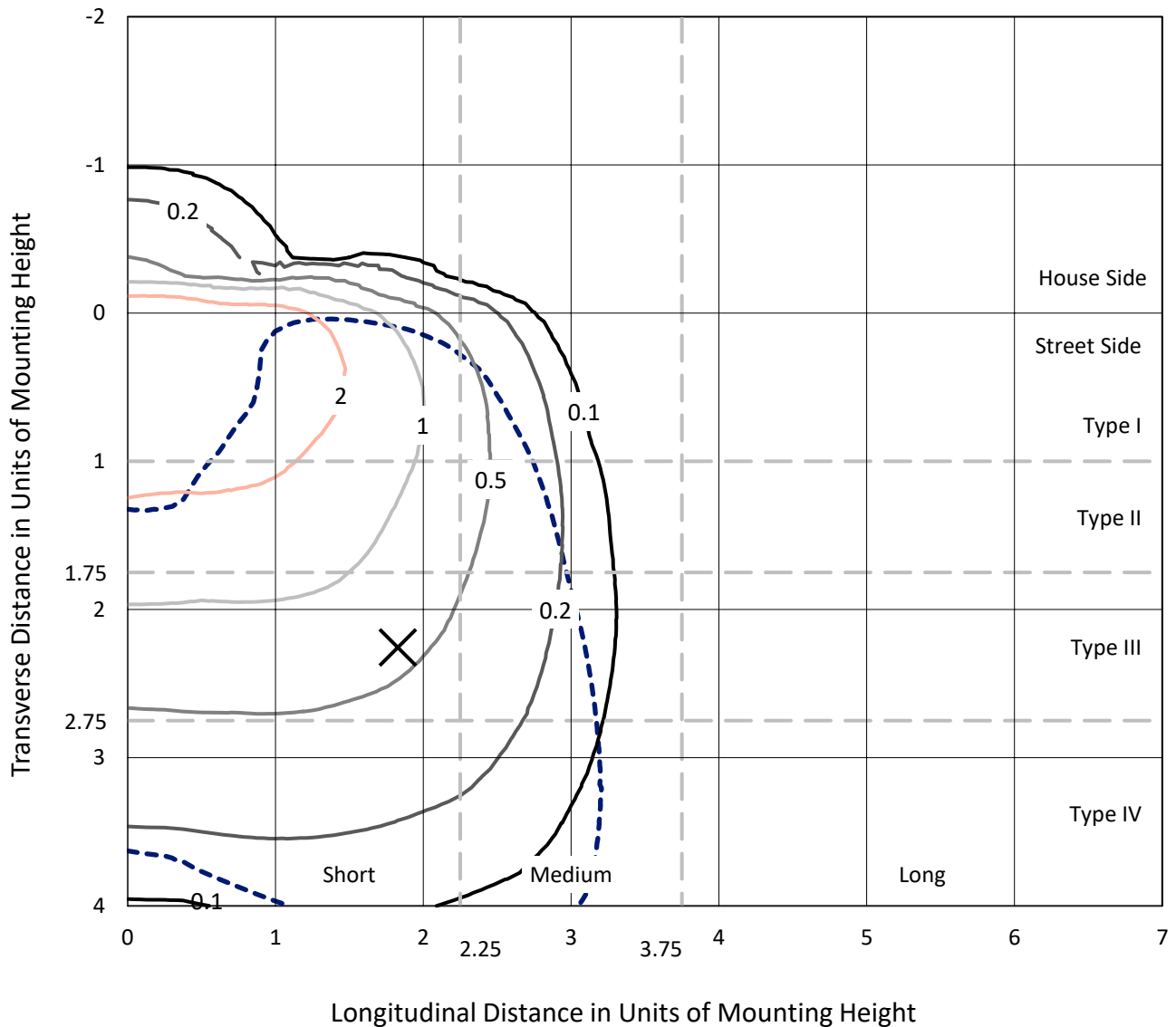
Lumens per Lamp: N/A
Luminaire Lumens: 15256.2 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

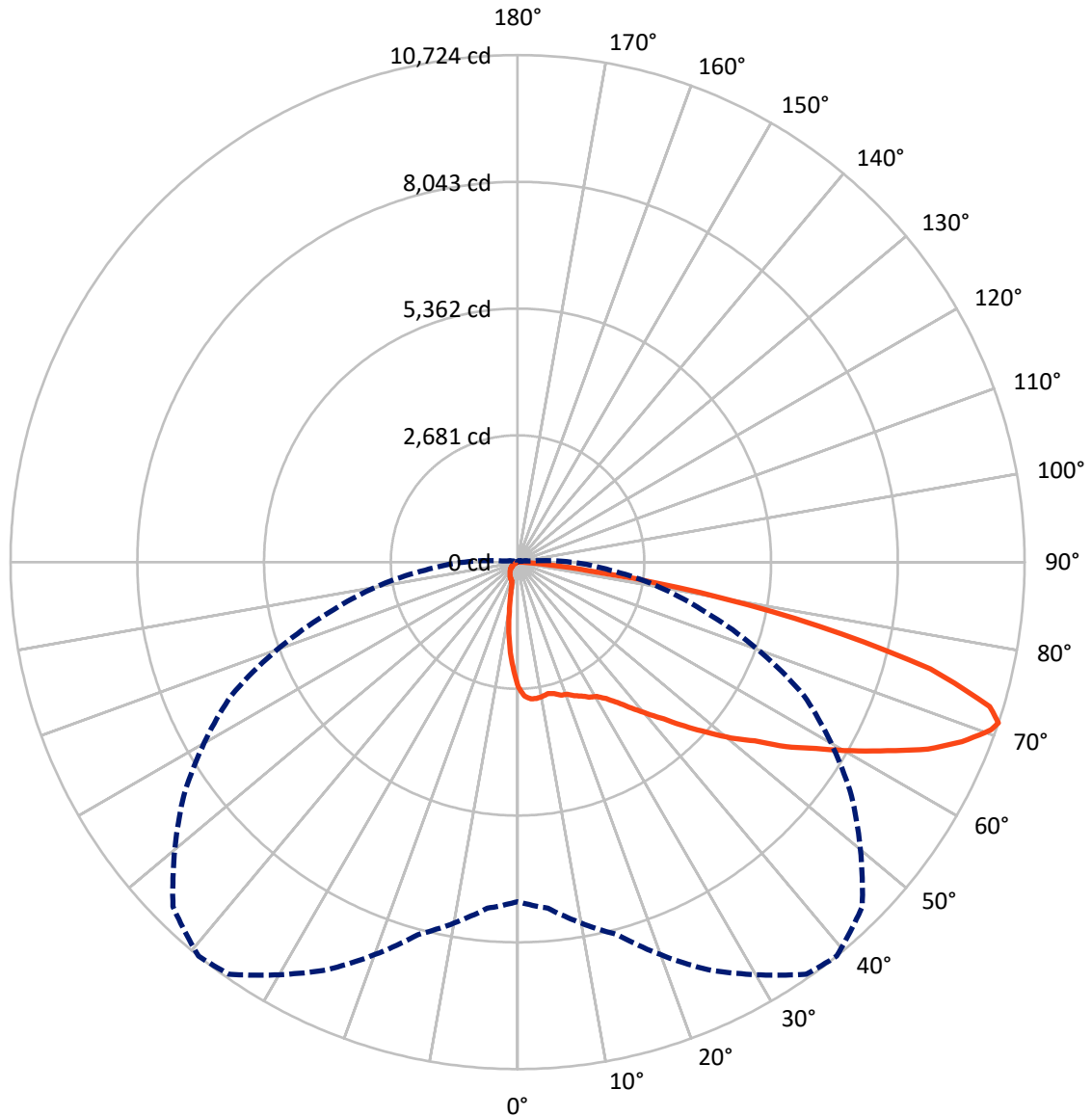
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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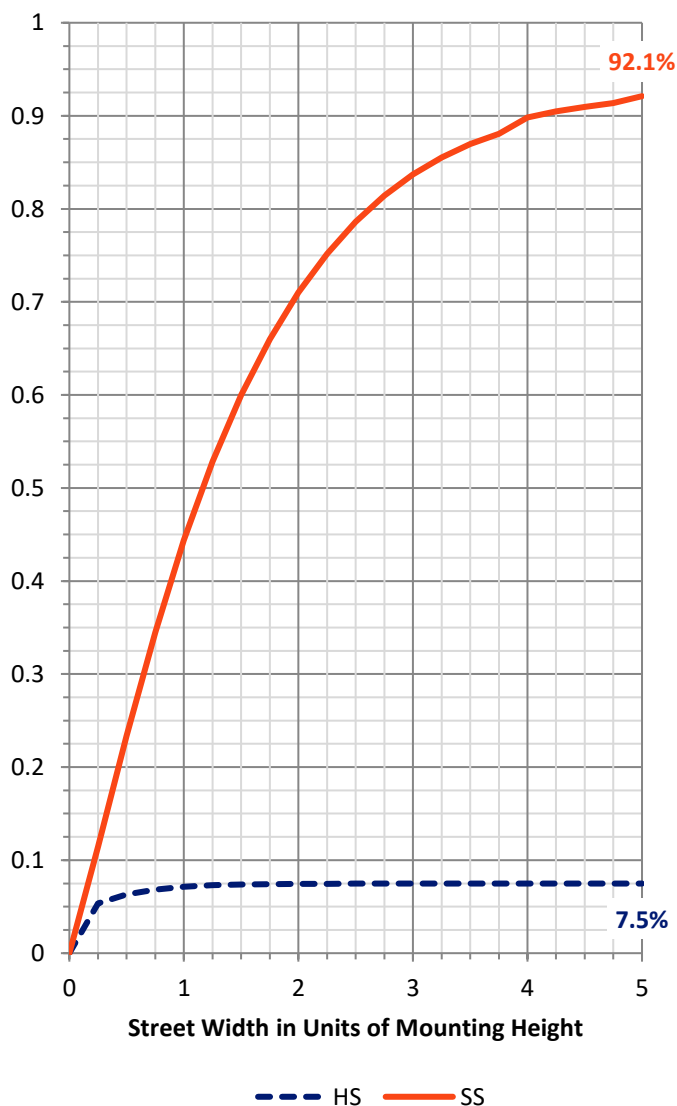
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1148.5	0.0	1148.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	14107.7	0.0	14107.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	15256.2	0.0	15256.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.0	1.5
10°-20°	546.5	3.6
20°-30°	877.2	5.8
30°-40°	1342.8	8.8
40°-50°	2155.5	14.1
50°-60°	3166.1	20.8
60°-70°	3987.5	26.1
70°-80°	2661.2	17.4
80°-90°	297.4	1.9
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°	15256.2	100.0
0°-180°	15256.2	100.0

Coefficient of Utilization

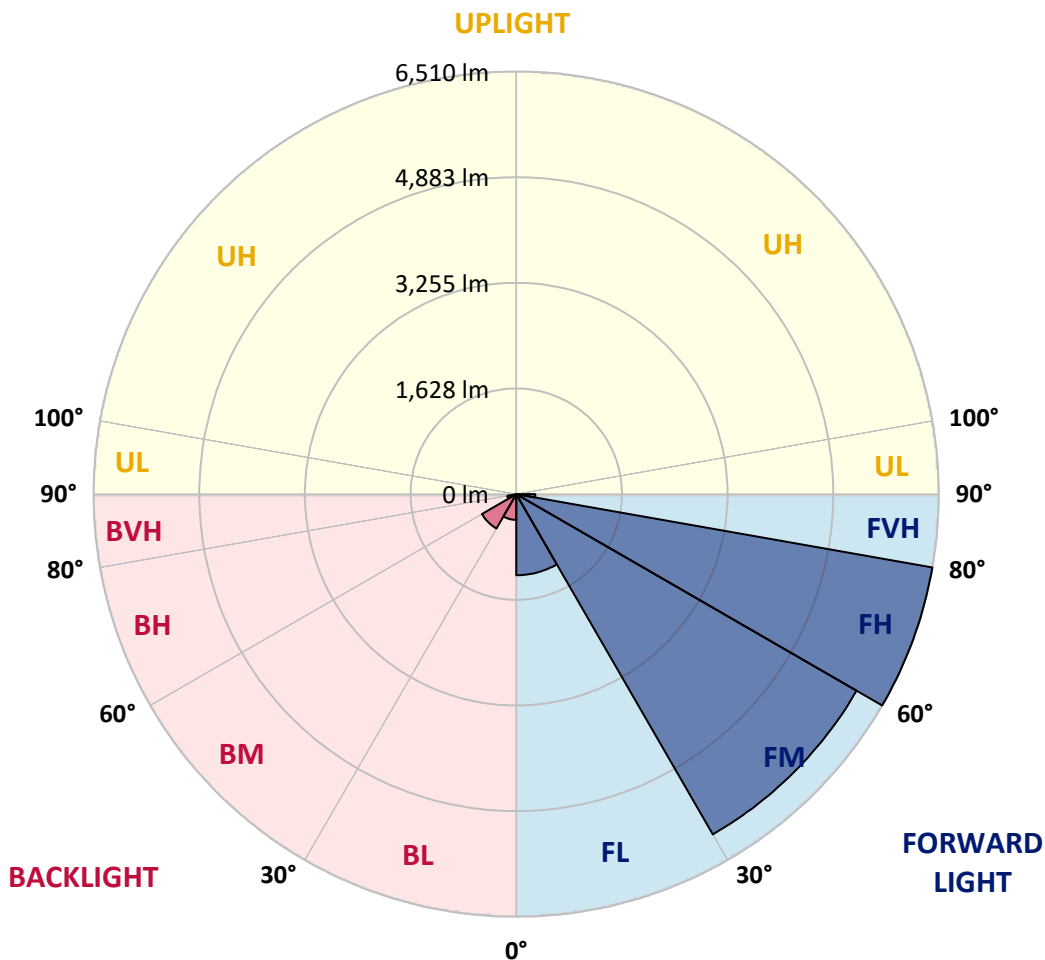


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1249.2	8.2			
FM (30°-60°)	6053.9	39.7			
FH (60°-80°)	6510.5	42.7			G3/7500
FVH (80°-90°)	294.1	1.9			G3/500
BL (0°-30°)	396.5	2.6	B1/500		
BM (30°-60°)	610.5	4.0	B1/1000		
BH (60°-80°)	138.2	0.9	B1/500		G1/500
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: B1-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4
2.5°	2861.6	2889.6	2861.6	2849.5	2837.5	2839.5	2807.5	2813.5	2775.5	2725.5	2685.5
5°	2951.6	2989.6	2959.6	2945.6	2943.6	2905.6	2889.6	2851.5	2805.5	2727.5	2679.5
7.5°	2943.6	2935.6	2949.6	2937.6	2911.6	2911.6	2893.6	2839.5	2793.5	2705.5	2623.4
10°	2883.6	2907.6	2895.6	2881.6	2887.6	2889.6	2855.6	2817.5	2803.5	2715.5	2581.4
12.5°	2877.6	2837.5	2881.6	2883.6	2857.6	2855.6	2851.5	2841.5	2797.5	2717.5	2591.4
15°	2857.6	2841.5	2885.6	2887.6	2893.6	2887.6	2893.6	2885.6	2841.5	2795.5	2635.4
17.5°	2873.6	2855.6	2917.6	2947.6	2933.6	2961.6	2951.6	2915.6	2877.6	2823.5	2677.5
20°	2877.6	2903.6	2971.6	2983.6	3027.6	2981.6	2979.6	2941.6	2917.6	2859.6	2703.5
22.5°	2951.6	2963.6	3047.7	3073.7	3075.7	3069.7	3019.6	2975.6	2965.6	2893.6	2709.5
25°	3063.7	3105.7	3143.7	3159.7	3165.7	3137.7	3085.7	3029.6	3005.6	2959.6	2771.5
27.5°	3261.8	3235.8	3269.8	3293.8	3225.8	3235.8	3169.7	3121.7	3087.7	3047.7	2843.5
30°	3437.9	3413.9	3415.9	3411.9	3353.8	3299.8	3281.8	3197.7	3155.7	3171.7	2955.6
32.5°	3596.0	3543.9	3587.9	3567.9	3459.9	3443.9	3429.9	3323.8	3331.8	3405.8	3123.7
35°	3742.0	3724.0	3760.0	3724.0	3652.0	3648.0	3634.0	3541.9	3585.9	3692.0	3411.9
37.5°	3876.1	3882.1	3926.1	3908.1	3914.1	3918.1	3910.1	3812.1	3938.1	4176.3	3748.0
40°	4000.2	3992.2	4100.2	4156.3	4168.3	4212.3	4212.3	4188.3	4382.4	4650.5	4214.3
42.5°	4132.2	4152.3	4292.3	4386.4	4500.4	4538.5	4590.5	4602.5	4902.7	5208.8	4690.5
45°	4348.4	4314.3	4492.4	4714.6	4814.6	4948.7	5028.7	5096.8	5459.0	5879.2	5166.8
47.5°	4622.5	4554.5	4710.6	5032.7	5264.9	5374.9	5519.0	5609.0	5963.2	6397.5	5617.0
50°	4926.7	4856.6	4932.7	5376.9	5647.1	5847.2	6031.3	6145.3	6573.6	6977.8	5945.2
52.5°	5270.9	5206.8	5218.8	5735.1	6133.3	6279.4	6521.5	6691.6	7117.9	7328.0	6061.3
55°	5637.1	5621.1	5583.0	6085.3	6559.6	6887.7	7033.8	7237.9	7676.2	7518.1	6187.4
57.5°	6005.3	5955.2	6009.3	6549.6	7243.9	7440.0	7642.1	7764.2	7986.3	7684.2	6139.3
60°	6351.4	6355.4	6431.5	7053.8	7826.2	8104.4	8286.5	8212.5	8304.5	7756.2	6029.3
62.5°	6643.6	6635.6	6827.7	7620.1	8596.7	8784.8	8920.8	8590.7	8452.6	7826.2	5837.2
65°	6905.7	6995.8	7298.0	8294.5	9321.1	9537.2	9455.1	8948.9	8596.7	7620.1	5296.9
67.5°	7103.9	7237.9	7762.2	8928.8	9985.4	10137.5	10023.4	9221.0	8426.6	6811.7	4314.3
70°	7219.9	7356.0	8094.4	9457.1	10515.7	10625.8	10357.6	9010.9	7434.0	4932.7	2691.5
71°	7183.9	7350.0	8158.4	9513.2	10641.8	10723.8	10307.6	8622.7	6685.6	4130.2	1963.1
72.5°	6857.7	7013.8	7892.3	9473.1	10489.7	10439.7	9917.4	7690.2	5262.9	2633.4	1014.6
75°	5038.7	5206.8	6773.7	8194.4	9363.1	9018.9	8026.4	5396.9	2745.5	806.4	296.2
77.5°	2509.4	2537.4	4204.3	5949.2	6867.7	6525.5	5378.9	3009.6	1026.6	238.1	148.1
80°	1156.6	1164.6	1576.9	3081.7	4152.3	3908.1	3013.6	1484.8	464.3	126.1	116.1
82.5°	788.4	800.4	950.5	1276.7	1803.0	1520.8	1220.7	950.5	266.1	76.0	114.1
85°	144.1	132.1	532.3	676.4	696.4	472.3	422.2	822.4	100.1	44.0	100.1
87.5°	0.0	2.0	74.0	276.1	248.1	110.1	144.1	200.1	10.0	14.0	18.0
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°	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4	2655.4
2.5°	2651.4	2629.4	2555.4	2473.3	2399.3	2341.3	2267.2	2233.2	2179.2	2149.2	2147.2
5°	2613.4	2553.4	2425.3	2287.2	2133.2	2005.1	1863.0	1783.0	1690.9	1662.9	1656.9
7.5°	2549.4	2463.3	2275.2	2081.1	1845.0	1618.9	1444.8	1258.7	1144.6	1096.6	1078.6
10°	2509.4	2405.3	2149.2	1859.0	1528.8	1210.7	966.5	768.4	664.4	614.3	602.3
12.5°	2509.4	2397.3	2047.1	1646.9	1208.7	828.4	598.3	484.3	450.2	438.2	438.2
15°	2503.4	2381.3	1949.1	1428.8	894.5	556.3	446.2	422.2	418.2	416.2	414.2
17.5°	2533.4	2353.3	1849.0	1194.6	632.3	438.2	410.2	406.2	402.2	402.2	398.2
20°	2555.4	2337.3	1728.9	946.5	472.3	406.2	394.2	388.2	386.2	384.2	388.2
22.5°	2537.4	2313.3	1580.9	708.4	412.2	386.2	378.2	372.2	368.2	368.2	370.2
25°	2571.4	2291.2	1432.8	534.3	386.2	368.2	360.2	356.2	354.2	352.2	348.2
27.5°	2617.4	2301.2	1256.7	430.2	364.2	350.2	342.2	338.2	336.2	332.2	336.2
30°	2673.5	2299.2	1062.6	376.2	344.2	330.2	322.2	320.2	316.2	314.2	316.2
32.5°	2769.5	2351.3	862.5	348.2	322.2	310.2	302.2	300.2	298.2	296.2	294.2
35°	2975.6	2415.3	674.4	326.2	302.2	288.2	282.2	278.2	276.1	274.1	272.1
37.5°	3229.8	2557.4	514.3	306.2	282.2	268.1	262.1	260.1	252.1	250.1	248.1
40°	3547.9	2709.5	396.2	284.2	264.1	250.1	244.1	238.1	228.1	224.1	220.1
42.5°	3944.1	2857.6	326.2	264.1	244.1	234.1	224.1	214.1	206.1	198.1	194.1
45°	4340.4	3029.6	286.2	246.1	228.1	216.1	208.1	194.1	180.1	168.1	166.1
47.5°	4670.5	3091.7	262.1	226.1	212.1	202.1	190.1	172.1	152.1	140.1	138.1
50°	4916.7	3055.7	238.1	206.1	194.1	184.1	168.1	146.1	126.1	114.1	110.1
52.5°	4964.7	2897.6	216.1	190.1	176.1	164.1	146.1	122.1	100.1	88.0	86.0
55°	4930.7	2635.4	198.1	176.1	160.1	142.1	122.1	98.1	78.0	66.0	64.0
57.5°	4860.6	2325.3	178.1	158.1	140.1	122.1	100.1	80.0	58.0	46.0	46.0
60°	4622.5	1903.0	158.1	138.1	120.1	104.1	82.0	58.0	40.0	30.0	28.0
62.5°	4290.3	1462.8	138.1	118.1	104.1	86.0	64.0	42.0	24.0	16.0	16.0
65°	3684.0	1024.6	116.1	98.1	86.0	70.0	48.0	26.0	14.0	6.0	6.0
67.5°	2799.5	634.3	96.1	82.0	74.0	56.0	34.0	16.0	6.0	2.0	0.0
70°	1606.9	330.2	76.0	66.0	58.0	42.0	24.0	8.0	4.0	0.0	0.0
71°	1122.6	244.1	68.0	58.0	52.0	38.0	20.0	6.0	2.0	0.0	0.0
72.5°	562.3	162.1	58.0	48.0	42.0	30.0	16.0	6.0	2.0	0.0	0.0
75°	200.1	104.1	40.0	32.0	30.0	22.0	10.0	4.0	2.0	0.0	0.0
77.5°	138.1	84.0	28.0	20.0	20.0	14.0	6.0	2.0	2.0	0.0	0.0
80°	126.1	46.0	18.0	12.0	10.0	8.0	4.0	2.0	0.0	0.0	0.0
82.5°	126.1	34.0	10.0	8.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0
85°	88.0	18.0	6.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.0	6.0	4.0	2.0	2.0	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)