

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: P484299

Luminaire Tested: **IFLD-M-SA4A-727-U-SL3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484299
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-727-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

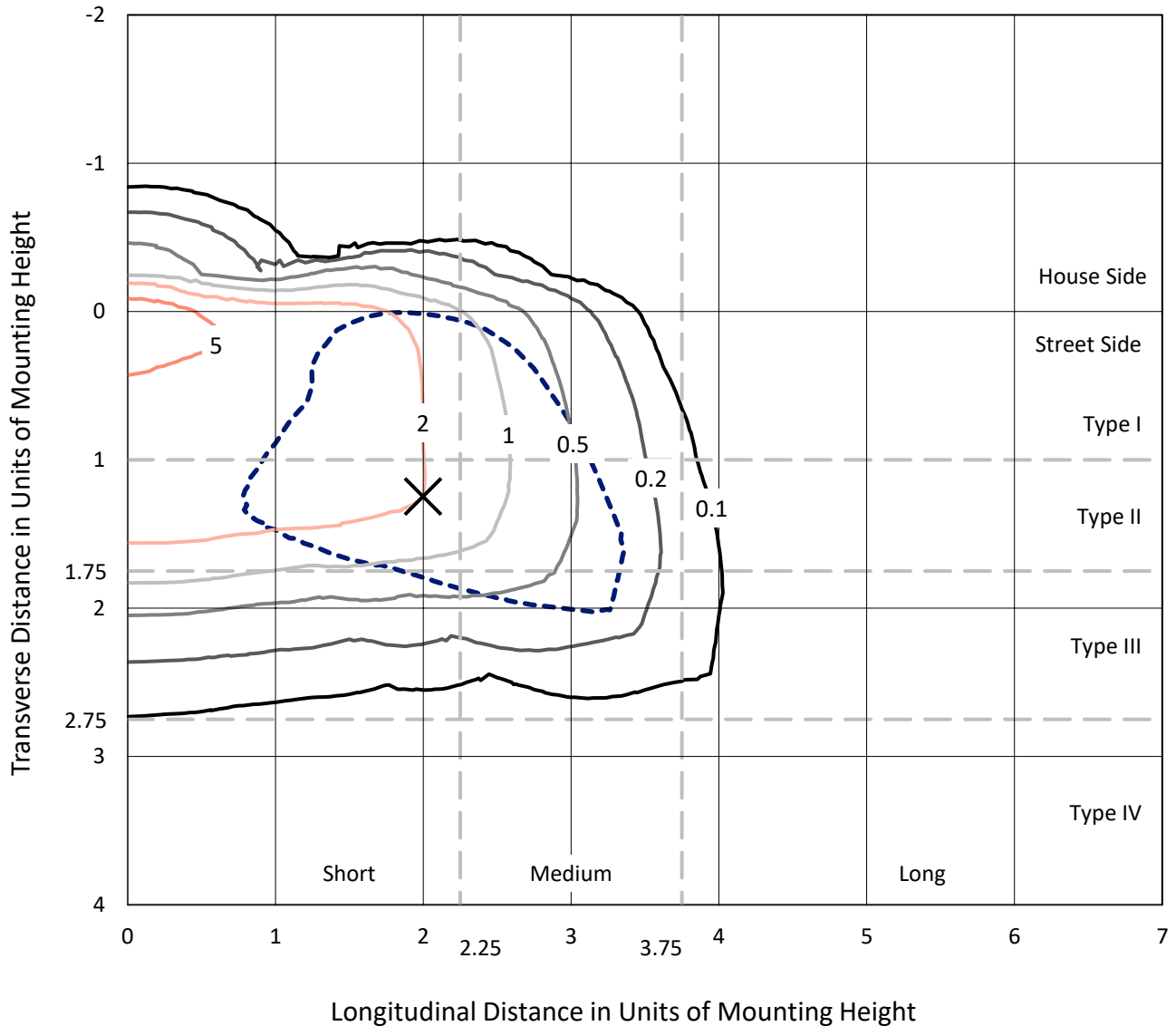
Lumens per Lamp: N/A
Luminaire Lumens: 12916 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

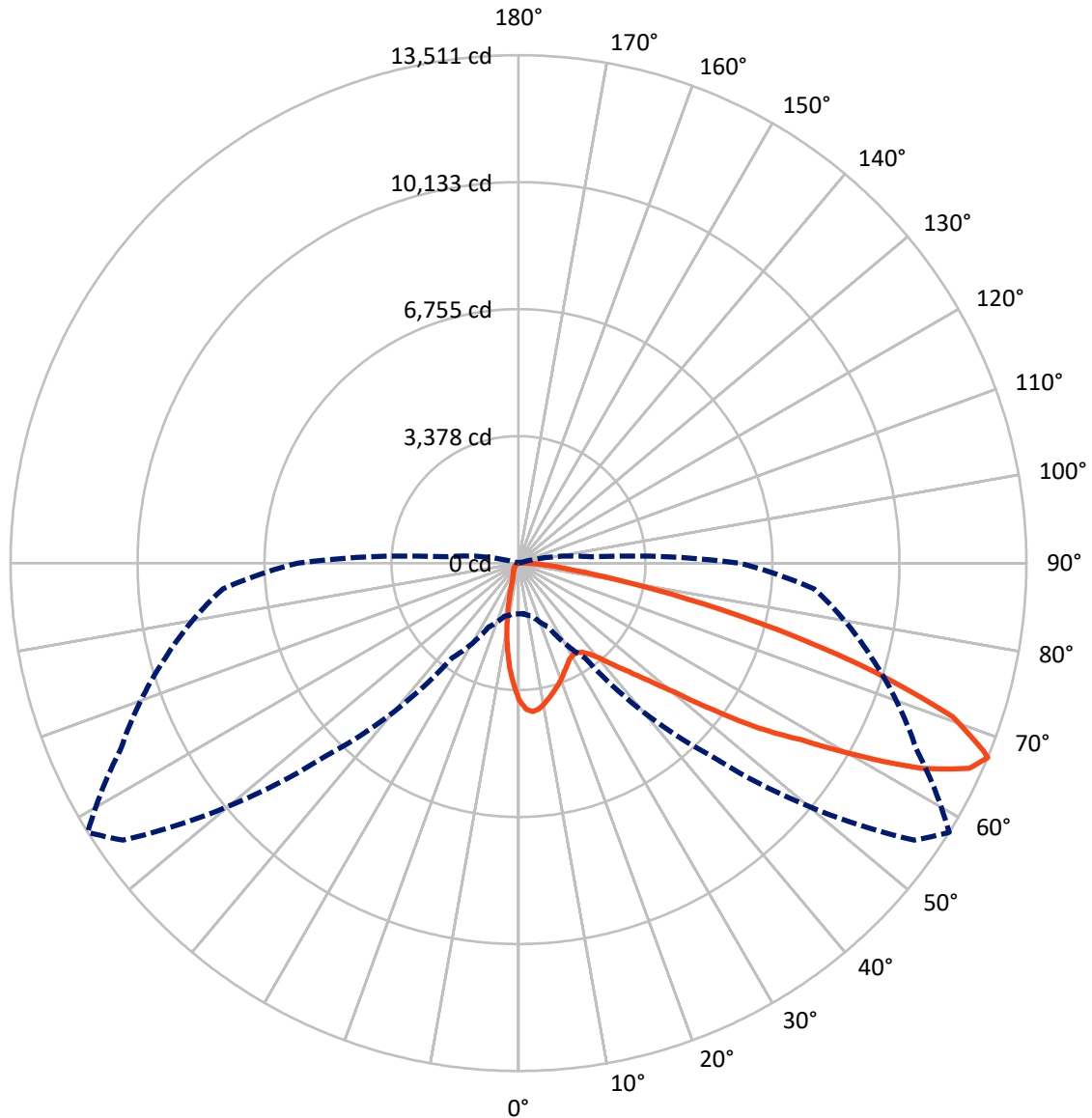
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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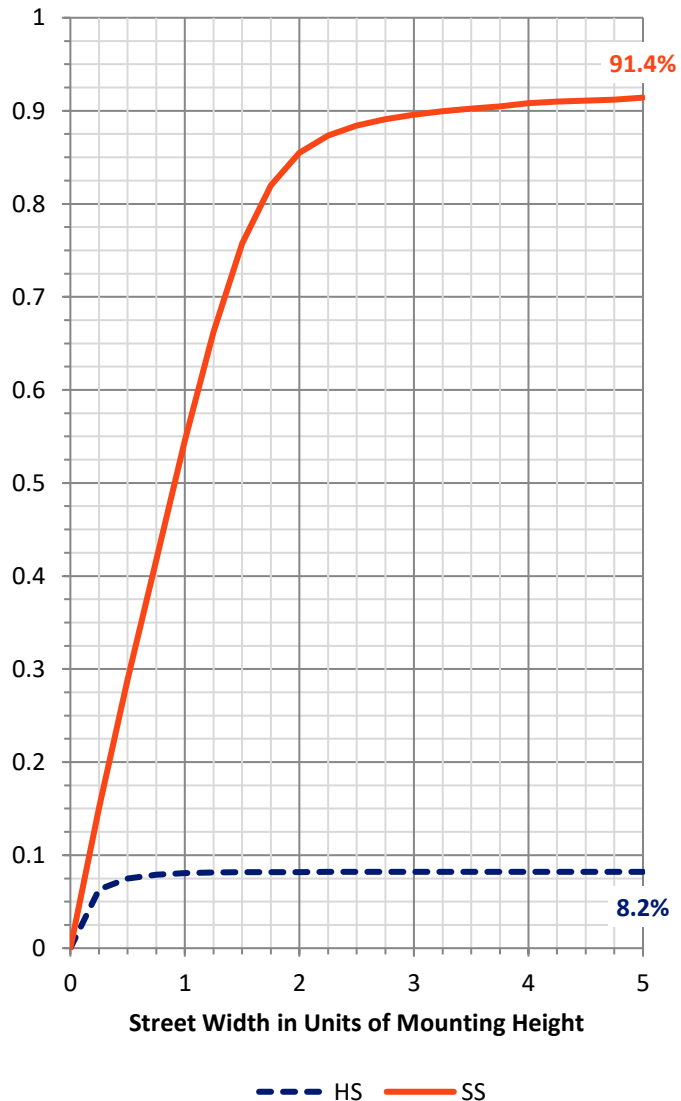
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1067.6	0.0	1067.6
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	11848.4	0.0	11848.4
	% Fixture	91.7	0.0	91.7
Total	Lumens	12916.0	0.0	12916.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.3	2.2
10°-20°	602.2	4.7
20°-30°	799.0	6.2
30°-40°	1107.2	8.6
40°-50°	1806.6	14.0
50°-60°	3175.5	24.6
60°-70°	3517.1	27.2
70°-80°	1457.5	11.3
80°-90°	160.4	1.2
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°	12916.0	100.0
0°-180°	12916.0	100.0

Coefficient of Utilization



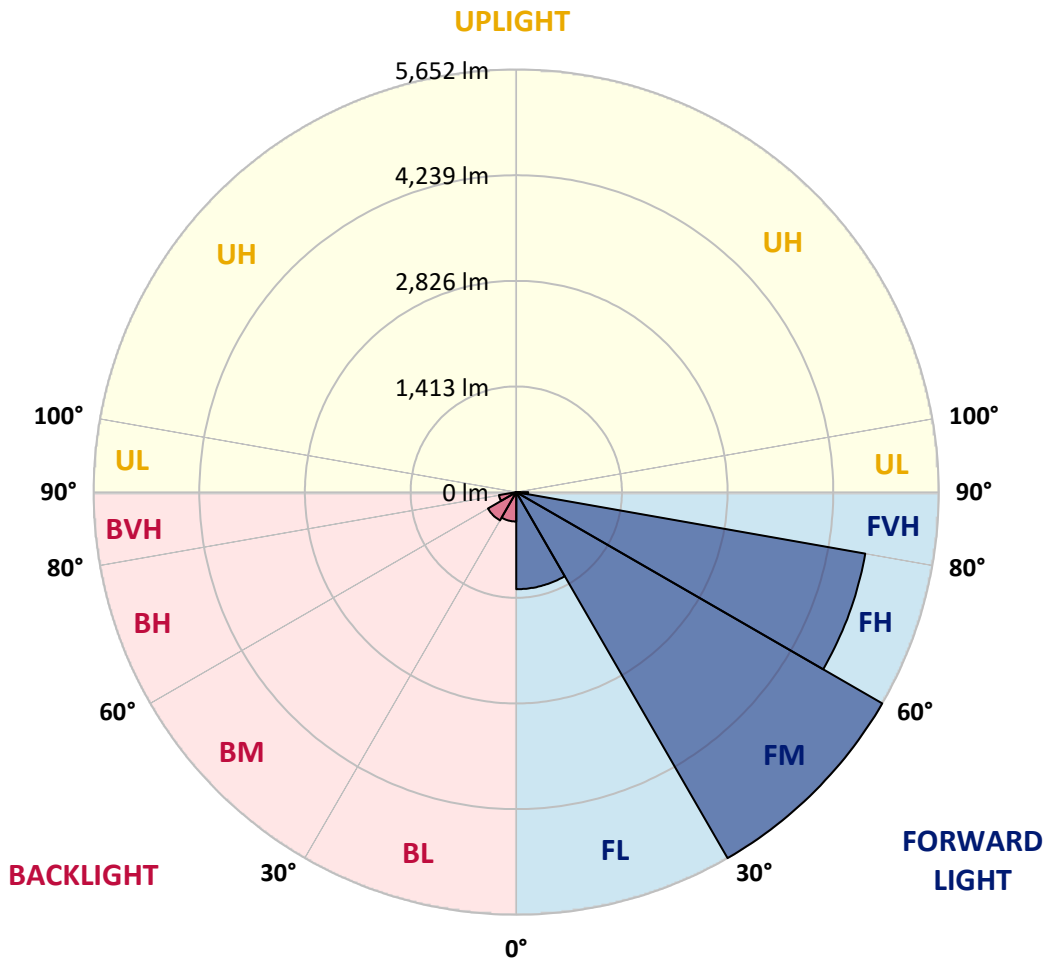
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1298.4	10.1			
FM	(30°-60°)	5652.3	43.8			
FH	(60°-80°)	4739.9	36.7			G2/5000
FVH	(80°-90°)	157.8	1.2			G2/225
BL	(0°-30°)	393.2	3.0	B1/500		
BM	(30°-60°)	437.0	3.4	B1/1000		
BH	(60°-80°)	234.7	1.8	B1/500		G1/500
BVH	(80°-90°)	2.6	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3
2.5°	3981.6	3995.4	4007.4	3985.1	4003.9	3976.5	3906.2	3890.8	3878.8	3774.2	3714.1
5°	3979.9	3964.5	3976.5	3986.8	3961.1	3981.6	3964.5	3966.2	3919.9	3825.6	3657.6
7.5°	3714.1	3707.3	3714.1	3763.9	3820.5	3865.0	3890.8	3916.5	3885.6	3745.0	3582.1
10°	3355.8	3390.1	3408.9	3498.1	3585.5	3667.8	3748.4	3796.4	3787.9	3731.3	3499.8
12.5°	3105.4	3095.1	3163.7	3222.0	3309.5	3475.8	3616.4	3661.0	3712.4	3633.5	3391.8
15°	2873.9	2846.5	2887.6	2988.8	3138.0	3270.0	3467.2	3534.1	3599.3	3619.8	3333.5
17.5°	2652.7	2666.4	2709.3	2800.2	2940.8	3126.0	3311.2	3407.2	3563.2	3535.8	3246.0
20°	2546.4	2575.5	2591.0	2637.3	2735.0	2920.2	3196.3	3273.4	3439.8	3534.1	3160.3
22.5°	2551.5	2551.5	2515.5	2543.0	2632.1	2776.2	3040.2	3126.0	3390.1	3444.9	3083.1
25°	2606.4	2572.1	2573.8	2541.3	2579.0	2657.9	2899.6	3004.2	3288.9	3453.5	3042.0
27.5°	2647.6	2640.7	2630.4	2621.8	2573.8	2585.8	2807.0	2892.8	3249.4	3443.2	2978.5
30°	2796.8	2765.9	2755.6	2736.7	2673.3	2615.0	2733.3	2841.3	3218.6	3467.2	2942.5
32.5°	2921.9	2927.1	2935.6	2880.8	2825.9	2681.9	2753.9	2839.6	3196.3	3522.1	2978.5
35°	3079.7	3102.0	3105.4	3088.3	3030.0	2887.6	2839.6	2913.4	3234.0	3619.8	2981.9
37.5°	3319.7	3295.7	3360.9	3367.8	3326.6	3138.0	3038.5	3067.7	3345.5	3775.9	3112.3
40°	3475.8	3504.9	3626.7	3702.1	3631.8	3460.4	3326.6	3321.5	3506.7	4021.1	3273.4
42.5°	3649.0	3714.1	3847.9	4010.8	4002.2	3842.7	3707.3	3685.0	3793.0	4376.0	3528.9
45°	3885.6	3943.9	4130.8	4376.0	4509.8	4374.3	4170.3	4125.7	4141.1	4859.6	3964.5
47.5°	4278.3	4262.9	4532.1	4773.9	4993.3	4888.7	4801.3	4671.0	4659.0	5428.9	4566.4
50°	4722.4	4719.0	4959.0	5233.4	5487.2	5691.2	5545.5	5403.2	5406.6	6202.2	5274.6
52.5°	5144.2	5211.1	5470.0	5742.7	6178.2	6397.7	6538.3	6481.7	6209.1	6893.3	6032.5
55°	5367.2	5425.5	5682.7	6152.5	6840.1	7404.3	7784.9	7736.9	7210.5	7671.8	6780.1
57.5°	5156.2	5195.7	5543.8	6159.4	7303.1	8561.7	8927.0	8867.0	8246.2	8266.8	7683.8
60°	4273.1	4334.9	4852.7	5574.6	7123.1	9453.4	10499.4	10408.5	9189.3	9019.6	8265.1
62.5°	2959.7	3000.8	3426.1	4324.6	6269.1	9763.8	11984.4	12034.1	10183.9	9606.0	8438.3
65°	1917.1	1913.7	2157.2	2765.9	4442.9	8824.1	12862.3	13171.0	11144.1	9695.2	8385.1
67°	1354.6	1349.5	1464.4	1875.9	3076.3	7270.5	12846.9	13510.5	11665.4	9720.9	7893.0
67.5°	1250.0	1244.9	1354.6	1725.0	2776.2	6761.2	12654.8	13335.6	11848.9	9684.9	7676.9
70°	970.5	956.8	998.0	1188.3	1617.0	4372.6	10830.3	12250.1	11468.2	8786.4	6130.2
72.5°	701.3	716.8	781.9	975.7	1268.9	2352.6	8254.8	9906.1	9578.6	6622.3	3895.9
75°	488.7	502.4	607.0	795.6	1164.3	1426.7	5581.5	7184.8	6672.1	3655.8	1659.9
77.5°	255.5	272.6	387.5	636.2	1058.0	1104.3	3335.2	4556.1	3535.8	1301.5	457.8
80°	118.3	126.9	193.8	451.0	884.8	970.5	1944.5	2534.4	1414.7	291.5	157.8
82.5°	51.4	56.6	89.2	258.9	627.6	848.8	1203.8	1328.9	512.7	94.3	97.7
85°	10.3	12.0	34.3	137.2	303.5	514.4	845.4	788.8	257.2	46.3	77.2
87.5°	0.0	0.0	8.6	39.4	82.3	152.6	358.4	358.4	78.9	24.0	29.2
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°	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3
2.5°	3661.0	3599.3	3463.8	3338.6	3249.4	3148.3	3014.5	2954.5	2932.2	2901.3	2855.1
5°	3565.0	3489.5	3258.0	3024.8	2769.3	2575.5	2369.8	2249.7	2158.9	2102.3	2083.4
7.5°	3429.5	3275.2	2963.1	2589.3	2258.3	1970.2	1658.2	1447.2	1311.8	1256.9	1205.5
10°	3321.5	3120.8	2645.9	2181.2	1740.5	1318.6	967.1	781.9	641.3	588.2	581.3
12.5°	3180.9	2940.8	2349.2	1764.5	1210.6	785.4	535.0	464.7	425.3	418.4	413.3
15°	3064.3	2777.9	2068.0	1366.7	783.6	490.4	416.7	399.5	389.2	385.8	387.5
17.5°	2985.4	2603.0	1779.9	994.6	516.1	401.3	384.1	373.8	368.7	367.0	361.8
20°	2829.3	2455.5	1495.3	696.2	403.0	370.4	356.7	348.1	342.9	341.2	339.5
22.5°	2740.2	2268.6	1210.6	485.3	358.4	336.1	325.8	318.9	310.4	305.2	303.5
25°	2651.0	2131.4	956.8	377.2	325.8	310.4	294.9	286.4	272.6	265.8	264.1
27.5°	2546.4	1996.0	737.3	327.5	293.2	277.8	262.4	248.6	231.5	224.6	221.2
30°	2486.4	1863.9	555.6	293.2	269.2	248.6	229.8	212.6	193.8	181.8	178.3
32.5°	2455.5	1743.9	416.7	267.5	243.5	221.2	197.2	176.6	159.5	149.2	147.5
35°	2417.8	1627.3	327.5	243.5	219.5	195.5	171.5	150.9	133.8	125.2	121.7
37.5°	2457.2	1558.7	272.6	224.6	200.6	173.2	147.5	126.9	113.2	104.6	102.9
40°	2565.3	1502.1	236.6	207.5	181.8	152.6	128.6	108.0	96.0	89.2	85.7
42.5°	2731.6	1502.1	214.3	190.3	164.6	133.8	109.7	94.3	82.3	75.4	73.7
45°	3033.4	1548.4	195.5	173.2	144.0	114.9	94.3	78.9	66.9	60.0	58.3
47.5°	3456.9	1654.7	180.0	157.8	128.6	101.2	82.3	66.9	54.9	48.0	46.3
50°	4026.2	1896.5	164.6	138.9	114.9	87.5	68.6	53.2	42.9	36.0	34.3
52.5°	4736.1	2239.5	149.2	128.6	97.7	73.7	54.9	42.9	32.6	27.4	25.7
55°	5487.2	2659.6	130.3	114.9	84.0	61.7	44.6	32.6	24.0	20.6	18.9
57.5°	6243.4	2983.7	114.9	99.5	68.6	49.7	36.0	25.7	17.1	13.7	12.0
60°	6644.6	3014.5	99.5	82.3	54.9	39.4	27.4	18.9	12.0	8.6	6.9
62.5°	6706.4	2740.2	85.7	66.9	44.6	30.9	18.9	13.7	6.9	3.4	3.4
65°	6389.1	2284.0	73.7	53.2	34.3	22.3	13.7	8.6	3.4	1.7	0.0
67°	5874.7	1913.7	63.4	44.6	27.4	17.1	10.3	5.1	1.7	0.0	0.0
67.5°	5675.8	1810.8	60.0	41.2	25.7	15.4	8.6	5.1	1.7	0.0	0.0
70°	4405.2	1292.9	44.6	29.2	18.9	12.0	6.9	3.4	0.0	0.0	0.0
72.5°	2699.0	756.2	34.3	20.6	13.7	8.6	5.1	1.7	0.0	0.0	0.0
75°	1131.7	260.6	29.2	15.4	10.3	5.1	3.4	1.7	0.0	0.0	0.0
77.5°	294.9	97.7	20.6	10.3	6.9	5.1	3.4	1.7	0.0	0.0	0.0
80°	120.0	44.6	13.7	6.9	6.9	5.1	3.4	1.7	0.0	0.0	0.0
82.5°	78.9	20.6	8.6	6.9	5.1	3.4	1.7	0.0	0.0	0.0	0.0
85°	60.0	12.0	5.1	5.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	25.7	6.9	5.1	3.4	3.4	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)