

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: P480924

Luminaire Tested: **IFLD-S-SA2E-750-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480924
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-750-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

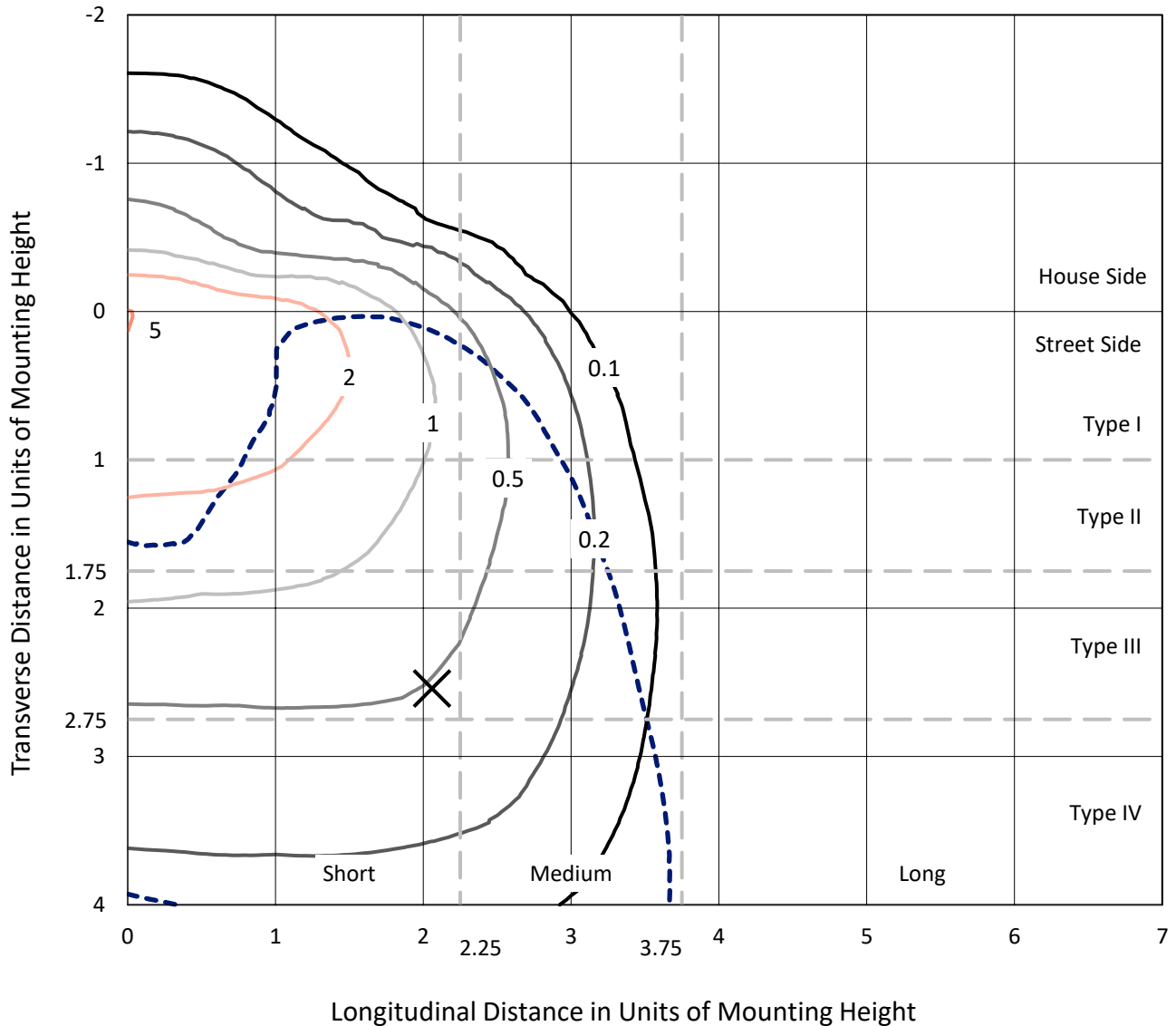
Lumens per Lamp: N/A
Luminaire Lumens: 17908.1 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 156.2
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

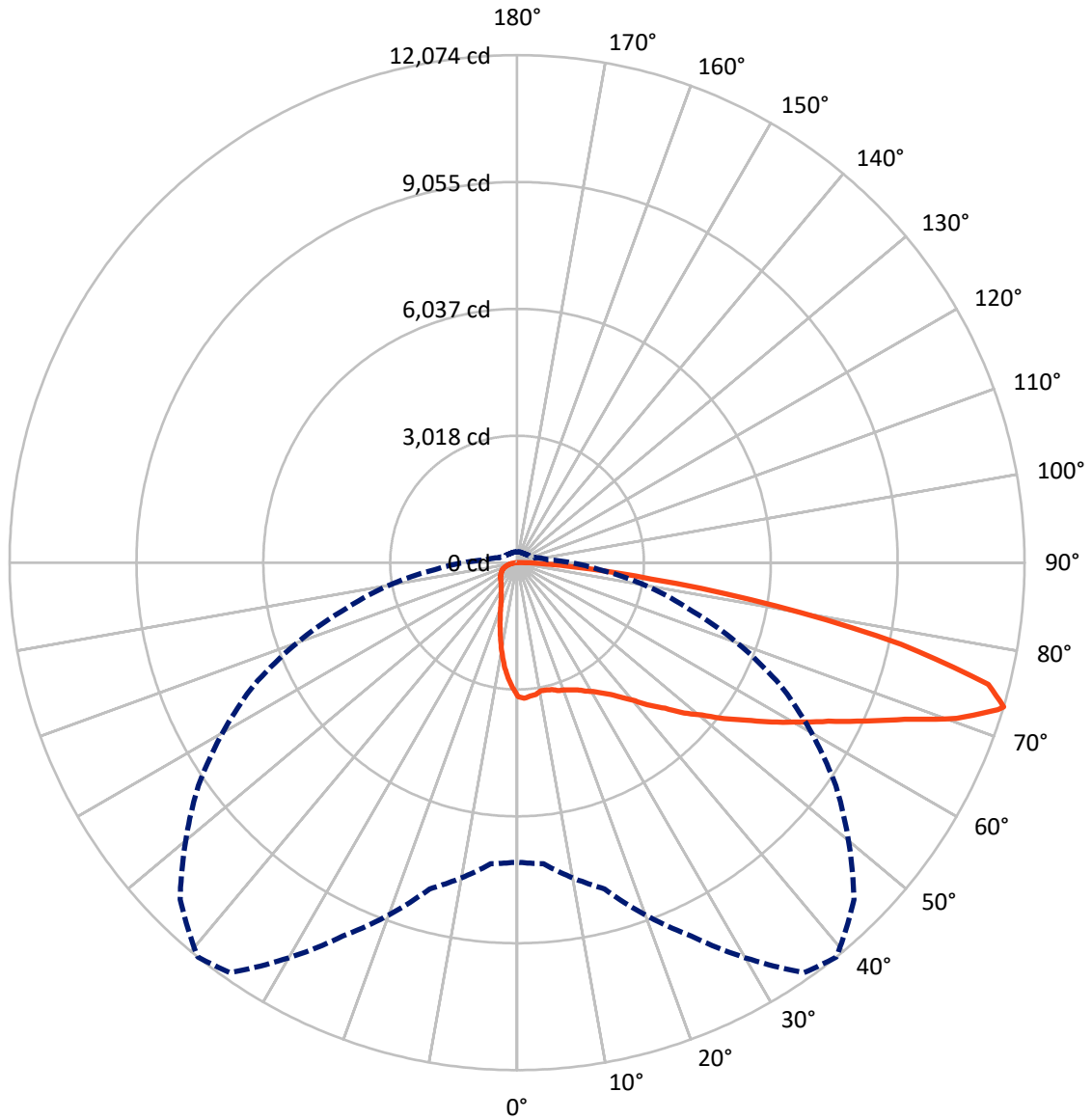
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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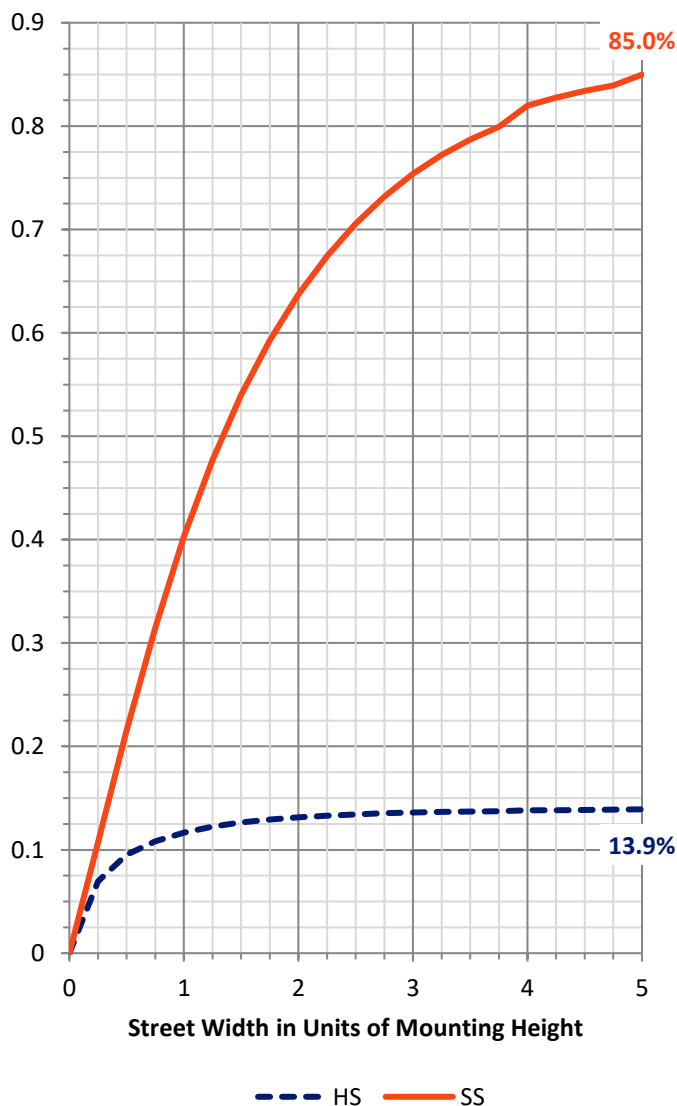
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2517.4	0.0	2517.4
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	15390.7	0.0	15390.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	17908.1	0.0	17908.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.7	1.5
10°-20°	703.5	3.9
20°-30°	1075.0	6.0
30°-40°	1567.3	8.8
40°-50°	2368.4	13.2
50°-60°	3429.6	19.2
60°-70°	4357.5	24.3
70°-80°	3532.4	19.7
80°-90°	597.7	3.3
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°	17908.1	100.0
0°-180°	17908.1	100.0

Coefficient of Utilization



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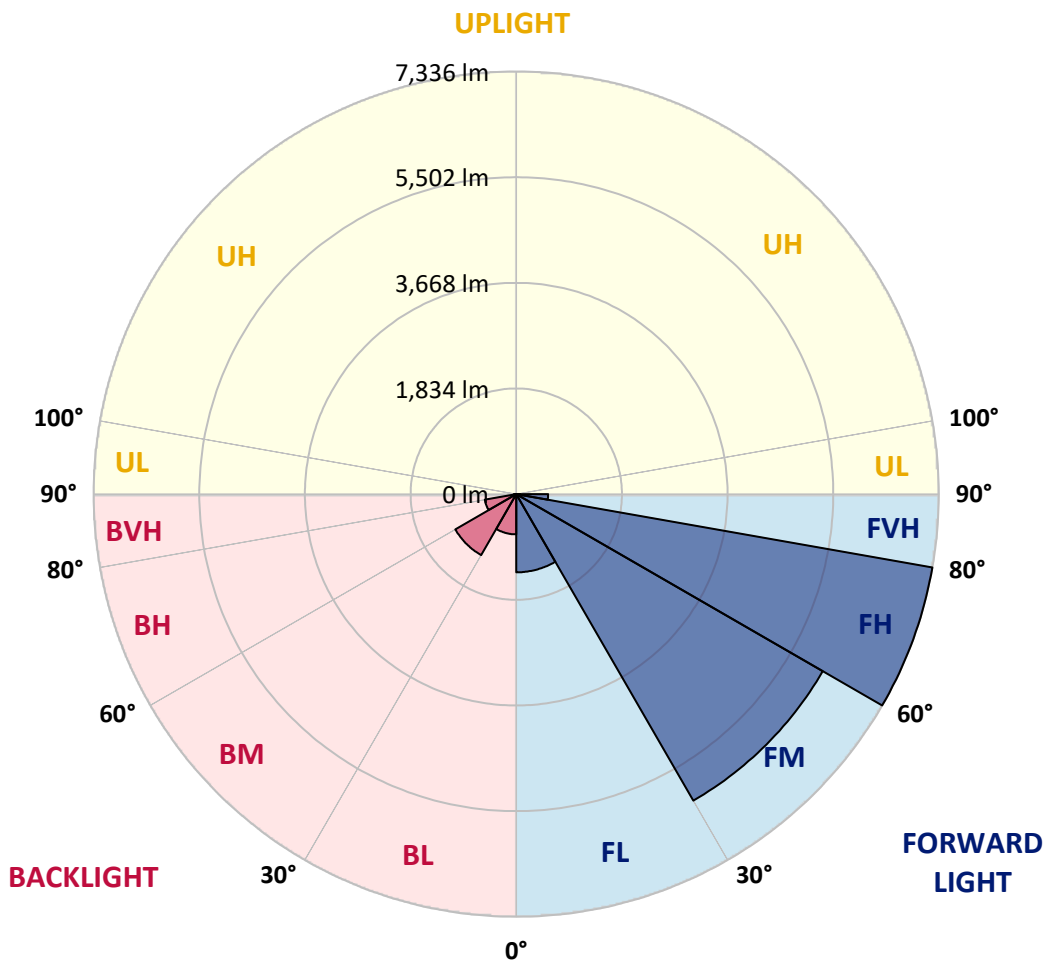
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1357.0	7.6			
FM (30°-60°)	6143.6	34.3			
FH (60°-80°)	7336.2	41.0			G3/7500
FVH (80°-90°)	553.8	3.1			G4/750
BL (0°-30°)	698.1	3.9	B2/1000		
BM (30°-60°)	1221.7	6.8	B2/2500		
BH (60°-80°)	553.7	3.1	B2/1000		G2/1000
BVH (80°-90°)	43.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3187.7	3187.7	3187.7	3187.7	3187.7	3187.7	3187.7	3187.7	3187.7	3187.7	3187.7
2.5°	3263.9	3229.8	3235.8	3223.8	3235.8	3231.8	3225.8	3195.8	3225.8	3195.8	3187.7
5°	3219.8	3219.8	3239.8	3209.8	3213.8	3193.8	3213.8	3191.8	3171.7	3121.6	3107.6
7.5°	3205.8	3203.8	3205.8	3163.7	3183.7	3171.7	3151.7	3127.6	3087.6	3055.5	3009.4
10°	3109.6	3129.6	3107.6	3119.6	3135.7	3099.6	3097.6	3091.6	3073.5	3031.5	3003.4
12.5°	3057.5	3091.6	3103.6	3093.6	3107.6	3111.6	3099.6	3091.6	3069.5	3041.5	2961.3
15°	3079.6	3039.5	3073.5	3139.7	3125.6	3135.7	3137.7	3129.6	3119.6	3067.5	3015.4
17.5°	3085.6	3061.5	3133.6	3147.7	3165.7	3201.8	3177.7	3175.7	3137.7	3101.6	3025.5
20°	3099.6	3089.6	3147.7	3221.8	3223.8	3229.8	3241.8	3211.8	3191.8	3129.6	3013.4
22.5°	3151.7	3185.7	3239.8	3271.9	3289.9	3293.9	3293.9	3233.8	3211.8	3161.7	3069.5
25°	3308.0	3271.9	3348.0	3386.1	3360.1	3354.0	3340.0	3285.9	3261.9	3217.8	3095.6
27.5°	3422.2	3420.2	3464.2	3516.3	3446.2	3460.2	3410.1	3394.1	3340.0	3316.0	3141.7
30°	3578.4	3622.5	3620.5	3636.6	3544.4	3560.4	3496.3	3466.2	3436.2	3450.2	3277.9
32.5°	3778.8	3762.8	3788.8	3776.8	3684.6	3698.7	3622.5	3576.4	3586.5	3628.5	3464.2
35°	3907.0	3891.0	3901.0	3901.0	3873.0	3857.0	3824.9	3764.8	3812.9	3891.0	3672.6
37.5°	4045.3	4065.3	4123.4	4111.4	4075.3	4075.3	4071.3	4029.3	4091.4	4283.7	4005.2
40°	4167.5	4221.6	4257.7	4281.7	4323.8	4323.8	4357.9	4333.8	4446.0	4754.6	4412.0
42.5°	4295.7	4297.7	4494.1	4512.1	4606.3	4646.4	4672.4	4692.5	4902.8	5247.5	4846.7
45°	4460.0	4470.1	4642.4	4780.6	4926.9	4940.9	5039.1	5105.2	5363.7	5786.4	5319.6
47.5°	4676.4	4664.4	4848.7	5069.1	5251.5	5347.6	5465.9	5538.0	5856.6	6371.5	5836.5
50°	4960.9	4924.9	5031.1	5377.7	5592.1	5698.3	5908.6	6028.9	6401.5	6930.5	6191.2
52.5°	5307.6	5247.5	5331.6	5710.3	5950.7	6165.1	6365.5	6499.7	6888.4	7363.3	6453.6
55°	5674.2	5550.0	5574.0	6062.9	6409.6	6611.9	6886.4	7026.7	7423.4	7752.0	6716.1
57.5°	6036.9	5958.7	5910.7	6401.5	6956.5	7150.9	7403.3	7585.7	7922.3	8096.6	6938.5
60°	6341.4	6321.4	6243.3	6926.5	7535.6	7701.9	7966.4	8078.6	8333.0	8415.2	6942.5
62.5°	6591.9	6523.8	6648.0	7349.2	8124.6	8313.0	8603.5	8613.5	8793.8	8613.5	6738.1
65°	6788.2	6792.2	6990.6	7860.2	8805.9	9084.4	9318.8	9292.7	9176.5	8495.3	6255.3
67.5°	6966.6	7042.7	7333.2	8421.2	9681.4	9943.9	10204.4	9859.8	9280.7	7942.3	5311.6
70°	7106.8	7182.9	7796.1	9104.4	10713.3	11098.0	11156.1	10084.2	8801.9	6728.1	4007.2
72.5°	7090.8	7229.0	8058.5	9649.4	11629.0	11961.6	11492.7	9453.0	7333.2	4690.5	2338.2
73°	7124.8	7193.0	8036.5	9801.7	11907.5	12073.8	11336.4	9254.7	6916.5	4207.6	1977.6
75°	6467.7	6698.1	7637.8	9553.2	11608.9	11578.9	10438.8	7711.9	4916.9	2210.0	957.7
77.5°	4784.6	4930.9	6018.8	7856.2	9529.2	9336.8	7874.2	4928.9	2334.2	819.5	516.9
80°	2338.2	2452.4	3189.7	4536.2	6231.2	6247.3	4886.8	2564.6	999.8	462.8	352.6
82.5°	1168.1	1236.2	1532.8	1993.6	3065.5	3211.8	2478.5	1458.6	619.1	262.5	200.4
85°	763.4	811.5	943.7	975.8	1300.3	1372.5	1154.1	1138.1	402.7	142.3	162.3
87.5°	506.9	514.9	579.0	492.9	520.9	500.9	557.0	717.3	118.2	60.1	44.1
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°	3187.7	3187.7	3187.7	3187.7	3187.7	3187.7	3187.7	3187.7	3187.7	3187.7	3187.7
2.5°	3177.7	3149.7	3119.6	3077.5	3047.5	3001.4	2959.3	2941.3	2937.3	2939.3	2919.3
5°	3095.6	3055.5	2995.4	2909.2	2859.2	2783.0	2718.9	2684.8	2648.8	2654.8	2638.8
7.5°	2981.4	2937.3	2845.1	2744.9	2620.7	2512.5	2452.4	2368.3	2320.2	2284.1	2304.2
10°	2945.3	2869.2	2730.9	2592.7	2400.3	2258.1	2119.8	2023.6	1957.5	1893.4	1921.5
12.5°	2927.3	2851.1	2658.8	2454.4	2206.0	1989.6	1795.2	1677.0	1582.9	1526.8	1548.8
15°	2911.2	2817.1	2590.7	2302.1	2023.6	1739.1	1520.7	1364.5	1274.3	1220.2	1226.2
17.5°	2933.3	2799.0	2490.5	2153.9	1823.3	1518.7	1276.3	1114.0	1021.8	987.8	979.8
20°	2911.2	2779.0	2392.3	2005.6	1622.9	1308.4	1075.9	941.7	877.6	849.5	843.5
22.5°	2919.3	2730.9	2290.1	1841.3	1436.6	1132.0	941.7	839.5	789.4	775.4	779.4
25°	2957.3	2702.9	2187.9	1661.0	1252.3	1001.8	855.5	777.4	741.3	727.3	731.3
27.5°	2985.4	2726.9	2095.8	1490.7	1096.0	885.6	783.4	731.3	707.3	697.3	695.3
30°	3055.5	2740.9	2005.6	1338.4	967.7	809.5	733.3	691.2	675.2	669.2	667.2
32.5°	3159.7	2767.0	1901.4	1198.2	873.6	737.3	693.2	657.2	653.2	647.2	649.2
35°	3330.0	2857.1	1785.2	1077.9	783.4	689.2	651.2	627.1	627.1	627.1	633.1
37.5°	3574.4	2983.4	1681.0	963.7	725.3	647.2	615.1	607.1	603.1	609.1	613.1
40°	3889.0	3135.7	1596.9	873.6	675.2	619.1	591.1	587.1	585.1	583.1	587.1
42.5°	4233.6	3330.0	1524.7	803.4	639.2	589.1	569.0	565.0	557.0	561.0	567.0
45°	4576.2	3570.4	1460.6	747.3	615.1	573.0	545.0	543.0	539.0	537.0	547.0
47.5°	4956.9	3806.9	1440.6	713.3	597.1	549.0	529.0	526.9	514.9	512.9	520.9
50°	5253.5	3981.2	1462.6	697.3	571.0	531.0	516.9	506.9	496.9	486.9	486.9
52.5°	5457.8	4101.4	1478.7	685.2	557.0	506.9	488.9	484.9	474.9	464.8	460.8
55°	5642.2	4173.5	1482.7	687.2	543.0	478.9	466.8	464.8	458.8	442.8	438.8
57.5°	5704.3	4143.5	1402.5	669.2	535.0	460.8	444.8	448.8	440.8	426.8	424.8
60°	5698.3	3935.1	1220.2	645.2	516.9	440.8	420.8	432.8	432.8	416.8	414.7
62.5°	5351.6	3454.2	997.8	599.1	496.9	420.8	398.7	416.8	422.8	412.7	410.7
65°	4632.3	2813.1	833.5	553.0	466.8	398.7	376.7	396.7	406.7	402.7	400.7
67.5°	3832.9	2151.9	693.2	492.9	428.8	368.7	350.6	364.7	370.7	372.7	374.7
70°	2708.9	1432.6	579.0	426.8	376.7	336.6	316.6	318.6	316.6	322.6	322.6
72.5°	1472.7	825.5	470.8	362.7	324.6	292.5	278.5	268.5	268.5	266.5	266.5
73°	1260.3	741.3	448.8	352.6	310.6	284.5	268.5	260.5	260.5	258.5	256.5
75°	707.3	543.0	384.7	302.5	268.5	248.4	236.4	224.4	222.4	222.4	222.4
77.5°	464.8	422.8	306.6	242.4	216.4	198.4	194.4	182.3	182.3	182.3	180.3
80°	348.6	332.6	236.4	184.3	166.3	152.3	148.3	140.3	138.2	130.2	132.2
82.5°	232.4	262.5	172.3	130.2	112.2	104.2	104.2	102.2	96.2	86.2	86.2
85°	184.3	214.4	124.2	80.1	66.1	56.1	58.1	56.1	54.1	44.1	42.1
87.5°	34.1	86.2	36.1	22.0	16.0	10.0	10.0	6.0	4.0	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)