

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: P484436

Luminaire Tested: **IFLD-S-SA3B-750-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484436
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-750-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (48) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

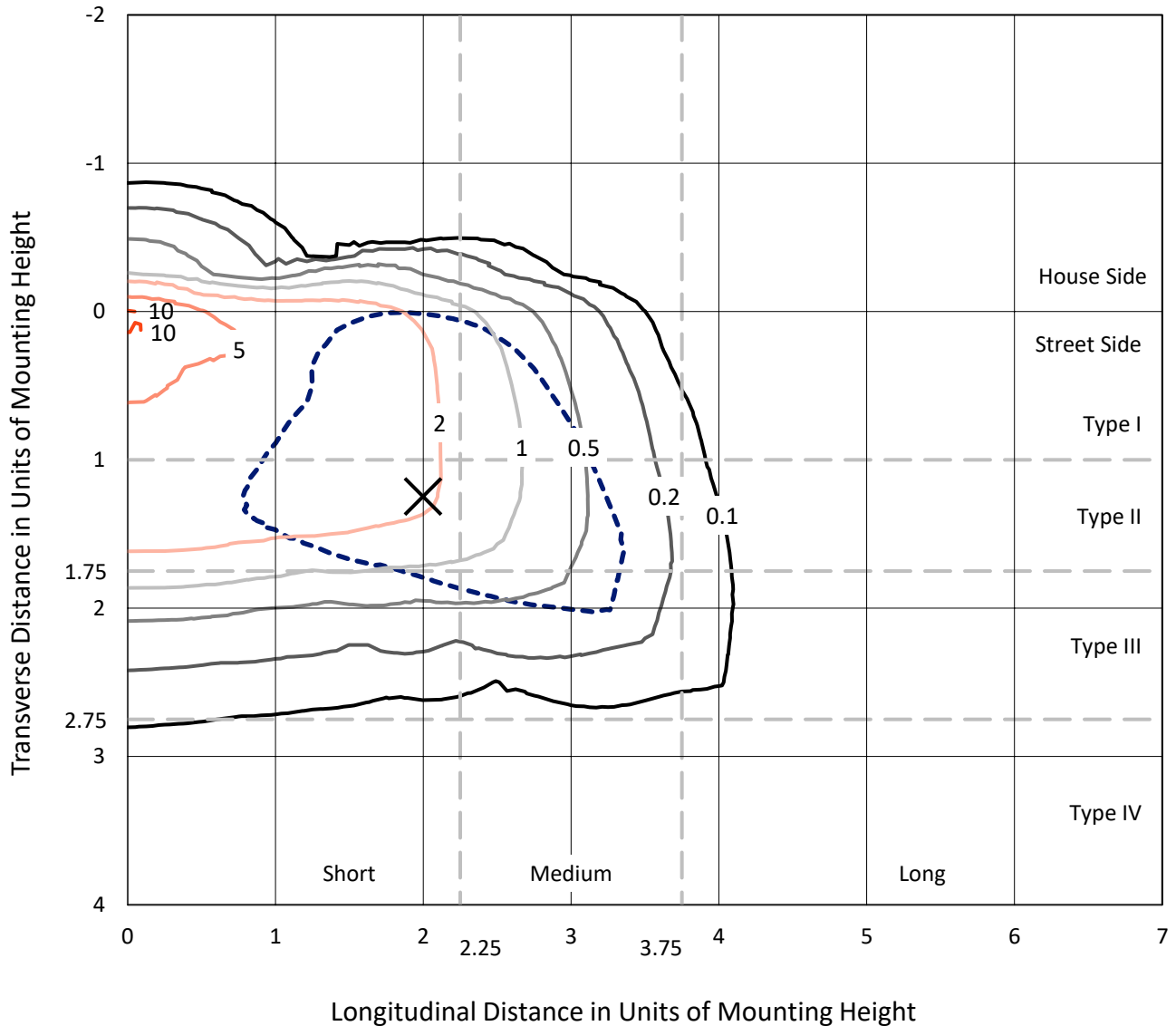
Lumens per Lamp: N/A
Luminaire Lumens: 14556.2 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 122.4
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

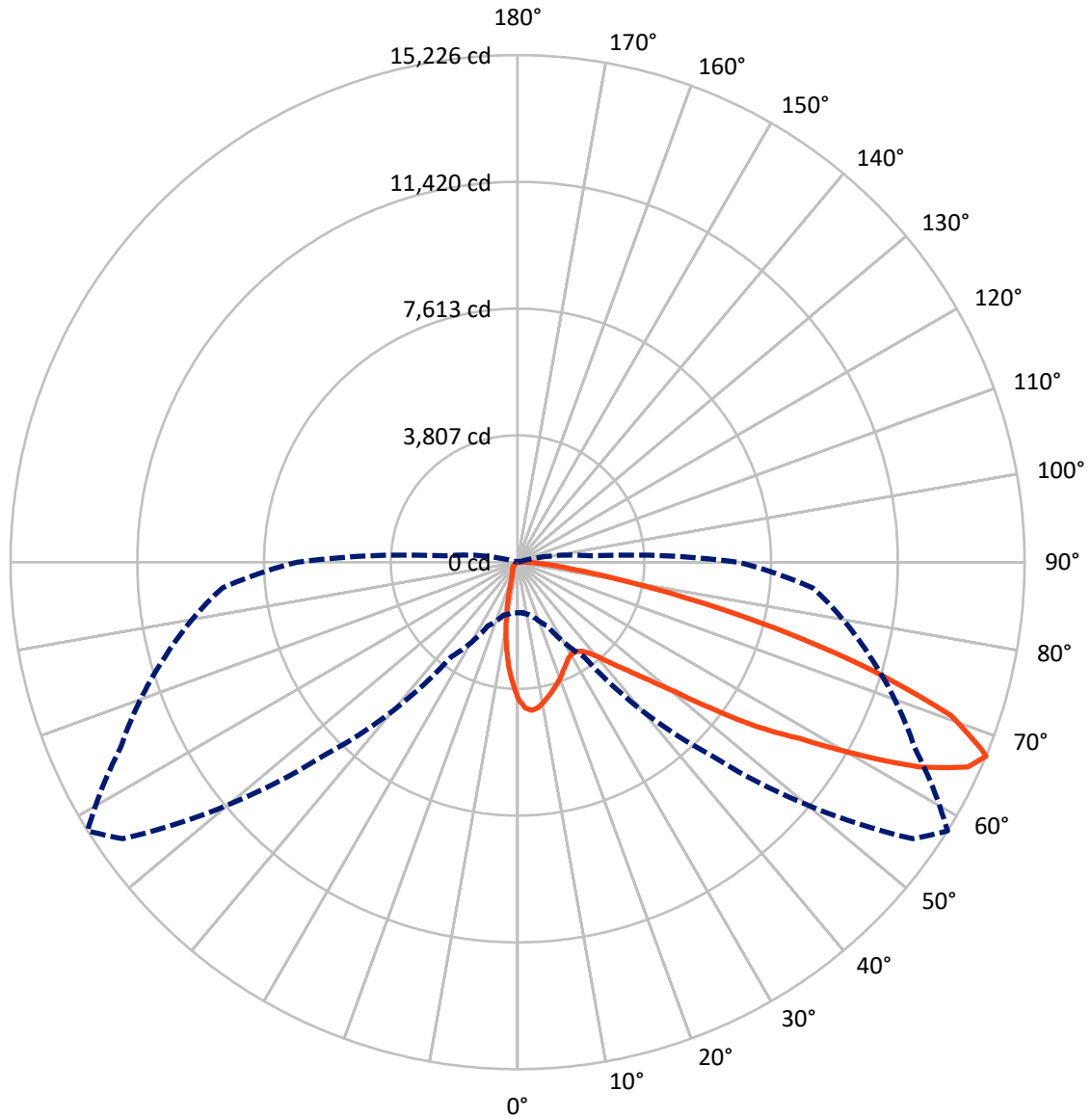
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.3 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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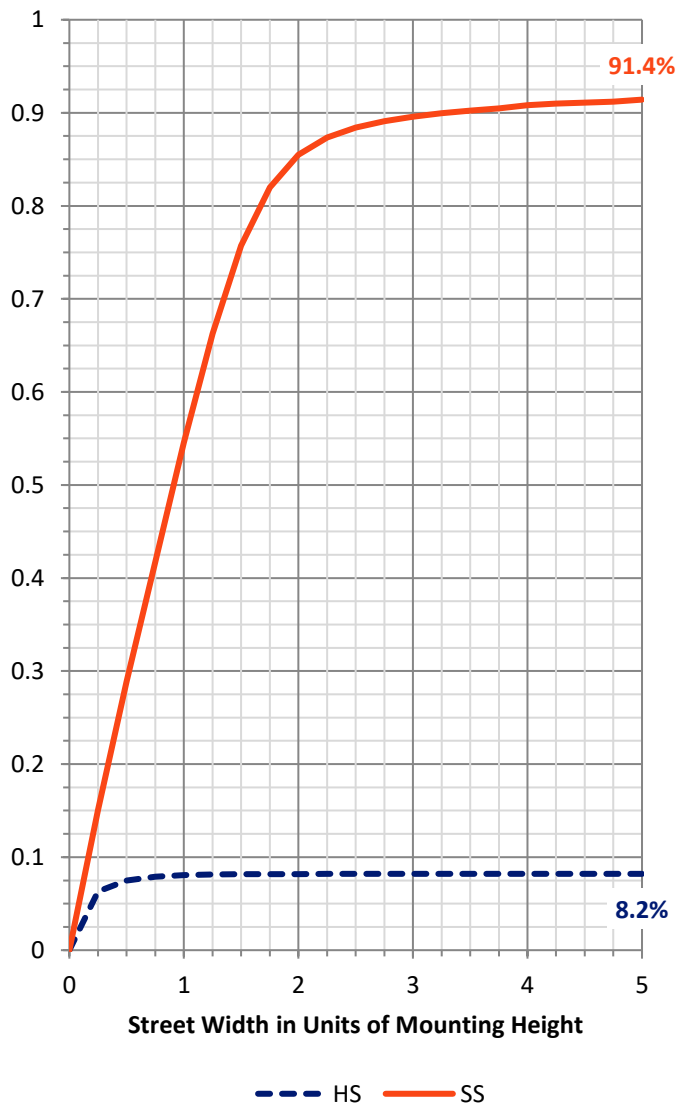
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1203.2	0.0	1203.2
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	13353.0	0.0	13353.0
	% Fixture	91.7	0.0	91.7
Total	Lumens	14556.2	0.0	14556.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.2	2.2
10°-20°	678.7	4.7
20°-30°	900.5	6.2
30°-40°	1247.8	8.6
40°-50°	2036.1	14.0
50°-60°	3578.7	24.6
60°-70°	3963.7	27.2
70°-80°	1642.6	11.3
80°-90°	180.8	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°	14556.2	100.0
0°-180°	14556.2	100.0



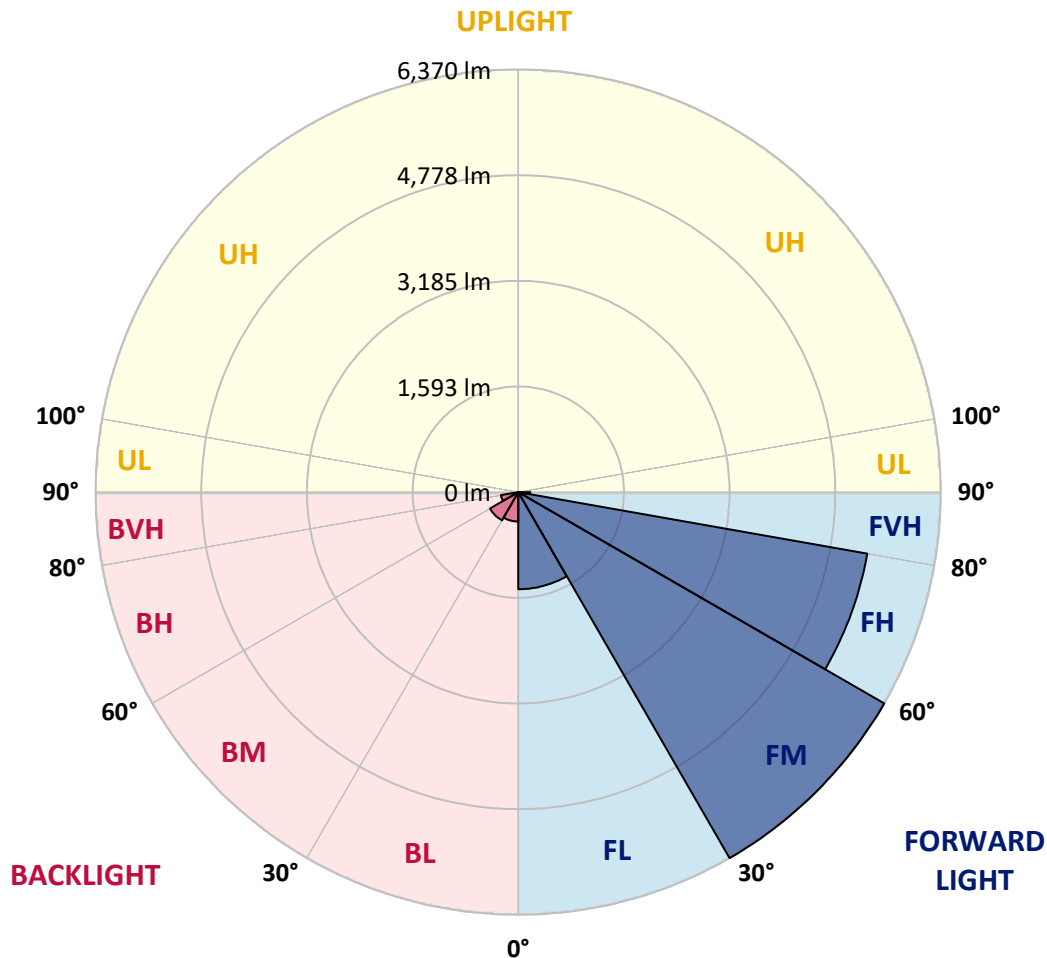
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1463.3	10.1			
FM (30°-60°)	6370.1	43.8			
FH (60°-80°)	5341.8	36.7			G3/7500
FVH (80°-90°)	177.8	1.2			G2/225
BL (0°-30°)	443.1	3.0	B1/500		
BM (30°-60°)	492.5	3.4	B1/1000		
BH (60°-80°)	264.5	1.8	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4124.0	4124.0	4124.0	4124.0	4124.0	4124.0	4124.0	4124.0	4124.0	4124.0	4124.0
2.5°	4487.3	4502.7	4516.3	4491.1	4512.4	4481.5	4402.2	4384.8	4371.3	4253.4	4185.8
5°	4485.3	4467.9	4481.5	4493.1	4464.1	4487.3	4467.9	4469.9	4417.7	4311.4	4122.0
7.5°	4185.8	4178.1	4185.8	4241.8	4305.6	4355.9	4384.8	4413.8	4379.0	4220.6	4037.0
10°	3781.9	3820.6	3841.8	3942.3	4040.9	4133.6	4224.4	4278.6	4268.9	4205.1	3944.2
12.5°	3499.8	3488.2	3565.5	3631.2	3729.7	3917.2	4075.6	4125.9	4183.9	4095.0	3822.5
15°	3238.9	3208.0	3254.3	3368.4	3536.5	3685.3	3907.5	3982.9	4056.3	4079.5	3756.8
17.5°	2989.6	3005.0	3053.4	3155.8	3314.2	3523.0	3731.7	3839.9	4015.7	3984.8	3658.2
20°	2869.8	2902.6	2920.0	2972.2	3082.3	3291.1	3602.2	3689.1	3876.6	3982.9	3561.6
22.5°	2875.6	2875.6	2835.0	2865.9	2966.4	3128.7	3426.3	3523.0	3820.6	3882.4	3474.6
25°	2937.4	2898.8	2900.7	2864.0	2906.5	2995.4	3267.9	3385.7	3706.5	3892.1	3428.3
27.5°	2983.8	2976.1	2964.5	2954.8	2900.7	2914.2	3163.5	3260.1	3662.1	3880.5	3356.8
30°	3151.9	3117.1	3105.5	3084.3	3012.8	2947.1	3080.4	3202.2	3627.3	3907.5	3316.2
32.5°	3293.0	3298.8	3308.4	3246.6	3184.8	3022.4	3103.6	3200.2	3602.2	3969.4	3356.8
35°	3470.8	3495.9	3499.8	3480.4	3414.7	3254.3	3200.2	3283.3	3644.7	4079.5	3360.6
37.5°	3741.3	3714.3	3787.7	3795.4	3749.1	3536.5	3424.4	3457.2	3770.3	4255.4	3507.5
40°	3917.2	3950.0	4087.2	4172.3	4093.0	3899.8	3749.1	3743.3	3952.0	4531.7	3689.1
42.5°	4112.4	4185.8	4336.5	4520.1	4510.5	4330.7	4178.1	4152.9	4274.7	4931.7	3977.1
45°	4379.0	4444.8	4655.4	4931.7	5082.5	4929.8	4699.8	4649.6	4667.0	5476.7	4467.9
47.5°	4821.6	4804.2	5107.6	5380.1	5627.4	5509.6	5411.0	5264.1	5250.6	6118.3	5146.3
50°	5322.1	5318.2	5588.8	5898.0	6184.0	6414.0	6249.7	6089.3	6093.2	6989.9	5944.4
52.5°	5797.5	5872.9	6164.7	6471.9	6962.8	7210.2	7368.6	7304.9	6997.6	7768.7	6798.5
55°	6048.7	6114.4	6404.3	6933.8	7708.7	8344.5	8773.6	8719.4	8126.2	8646.0	7641.1
57.5°	5811.0	5855.5	6247.8	6941.5	8230.5	9649.0	10060.6	9993.0	9293.4	9316.6	8659.5
60°	4815.8	4885.4	5469.0	6282.6	8027.6	10653.9	11832.7	11730.3	10356.3	10165.0	9314.7
62.5°	3335.5	3381.9	3861.1	4873.8	7065.2	11003.7	13506.3	13562.3	11477.1	10825.9	9509.8
65°	2160.5	2156.7	2431.1	3117.1	5007.1	9944.7	14495.7	14843.5	12559.3	10926.4	9449.9
67°	1526.7	1520.9	1650.4	2114.2	3466.9	8193.8	14478.3	15226.2	13146.8	10955.4	8895.3
67.5°	1408.8	1403.0	1526.7	1944.1	3128.7	7619.9	14261.9	15029.1	13353.6	10914.8	8651.8
70°	1093.8	1078.3	1124.7	1339.2	1822.3	4927.9	12205.7	13805.8	12924.6	9902.1	6908.7
72.5°	790.4	807.8	881.2	1099.6	1430.1	2651.4	9303.1	11164.1	10795.0	7463.3	4390.6
75°	550.8	566.2	684.1	896.7	1312.2	1607.8	6290.3	8097.2	7519.4	4120.1	1870.7
77.5°	287.9	307.3	436.7	717.0	1192.4	1244.5	3758.7	5134.7	3984.8	1466.8	516.0
80°	133.3	143.0	218.4	508.2	997.2	1093.8	2191.5	2856.2	1594.3	328.5	177.8
82.5°	58.0	63.8	100.5	291.8	707.3	956.6	1356.6	1497.7	577.8	106.3	110.2
85°	11.6	13.5	38.7	154.6	342.1	579.8	952.7	889.0	289.9	52.2	87.0
87.5°	0.0	0.0	9.7	44.4	92.8	172.0	403.9	403.9	88.9	27.1	32.9
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°	4124.0	4124.0	4124.0	4124.0	4124.0	4124.0	4124.0	4124.0	4124.0	4124.0	4124.0
2.5°	4125.9	4056.3	3903.7	3762.6	3662.1	3548.1	3397.3	3329.7	3304.6	3269.8	3217.6
5°	4017.7	3932.6	3671.8	3408.9	3121.0	2902.6	2670.7	2535.4	2433.0	2369.2	2348.0
7.5°	3865.0	3691.1	3339.4	2918.1	2545.1	2220.4	1868.7	1631.0	1478.4	1416.5	1358.5
10°	3743.3	3517.2	2981.9	2458.1	1961.5	1486.1	1089.9	881.2	722.8	662.8	655.1
12.5°	3584.8	3314.2	2647.5	1988.5	1364.3	885.1	602.9	523.7	479.3	471.5	465.7
15°	3453.4	3130.7	2330.6	1540.2	883.2	552.7	469.6	450.3	438.7	434.8	436.7
17.5°	3364.5	2933.5	2005.9	1120.9	581.7	452.2	432.9	421.3	415.5	413.6	407.8
20°	3188.6	2767.3	1685.1	784.6	454.1	417.4	402.0	392.3	386.5	384.6	382.6
22.5°	3088.1	2556.7	1364.3	546.9	403.9	378.8	367.2	359.4	349.8	344.0	342.1
25°	2987.6	2402.1	1078.3	425.2	367.2	349.8	332.4	322.7	307.3	299.5	297.6
27.5°	2869.8	2249.4	831.0	369.1	330.5	313.1	295.7	280.2	260.9	253.2	249.3
30°	2802.1	2100.6	626.1	330.5	303.4	280.2	259.0	239.6	218.4	204.8	201.0
32.5°	2767.3	1965.4	469.6	301.5	274.4	249.3	222.2	199.0	179.7	168.1	166.2
35°	2724.8	1833.9	369.1	274.4	247.4	220.3	193.3	170.1	150.7	141.1	137.2
37.5°	2769.3	1756.6	307.3	253.2	226.1	195.2	166.2	143.0	127.5	117.9	116.0
40°	2891.0	1692.9	266.7	233.8	204.8	172.0	144.9	121.7	108.2	100.5	96.6
42.5°	3078.5	1692.9	241.6	214.5	185.5	150.7	123.7	106.3	92.8	85.0	83.1
45°	3418.6	1745.0	220.3	195.2	162.3	129.5	106.3	88.9	75.4	67.6	65.7
47.5°	3895.9	1864.9	202.9	177.8	144.9	114.0	92.8	75.4	61.8	54.1	52.2
50°	4537.5	2137.3	185.5	156.5	129.5	98.6	77.3	59.9	48.3	40.6	38.7
52.5°	5337.6	2523.8	168.1	144.9	110.2	83.1	61.8	48.3	36.7	30.9	29.0
55°	6184.0	2997.3	146.9	129.5	94.7	69.6	50.2	36.7	27.1	23.2	21.3
57.5°	7036.2	3362.6	129.5	112.1	77.3	56.0	40.6	29.0	19.3	15.5	13.5
60°	7488.4	3397.3	112.1	92.8	61.8	44.4	30.9	21.3	13.5	9.7	7.7
62.5°	7558.0	3088.1	96.6	75.4	50.2	34.8	21.3	15.5	7.7	3.9	3.9
65°	7200.5	2574.1	83.1	59.9	38.7	25.1	15.5	9.7	3.9	1.9	0.0
67°	6620.8	2156.7	71.5	50.2	30.9	19.3	11.6	5.8	1.9	0.0	0.0
67.5°	6396.6	2040.7	67.6	46.4	29.0	17.4	9.7	5.8	1.9	0.0	0.0
70°	4964.6	1457.1	50.2	32.9	21.3	13.5	7.7	3.9	0.0	0.0	0.0
72.5°	3041.8	852.2	38.7	23.2	15.5	9.7	5.8	1.9	0.0	0.0	0.0
75°	1275.5	293.7	32.9	17.4	11.6	5.8	3.9	1.9	0.0	0.0	0.0
77.5°	332.4	110.2	23.2	11.6	7.7	5.8	3.9	1.9	0.0	0.0	0.0
80°	135.3	50.2	15.5	7.7	7.7	5.8	3.9	1.9	0.0	0.0	0.0
82.5°	88.9	23.2	9.7	7.7	5.8	3.9	1.9	0.0	0.0	0.0	0.0
85°	67.6	13.5	5.8	5.8	3.9	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	29.0	7.7	5.8	3.9	3.9	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)