

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: P484928

Luminaire Tested: **IFLD-L-SA7A-827-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484928
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-827-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

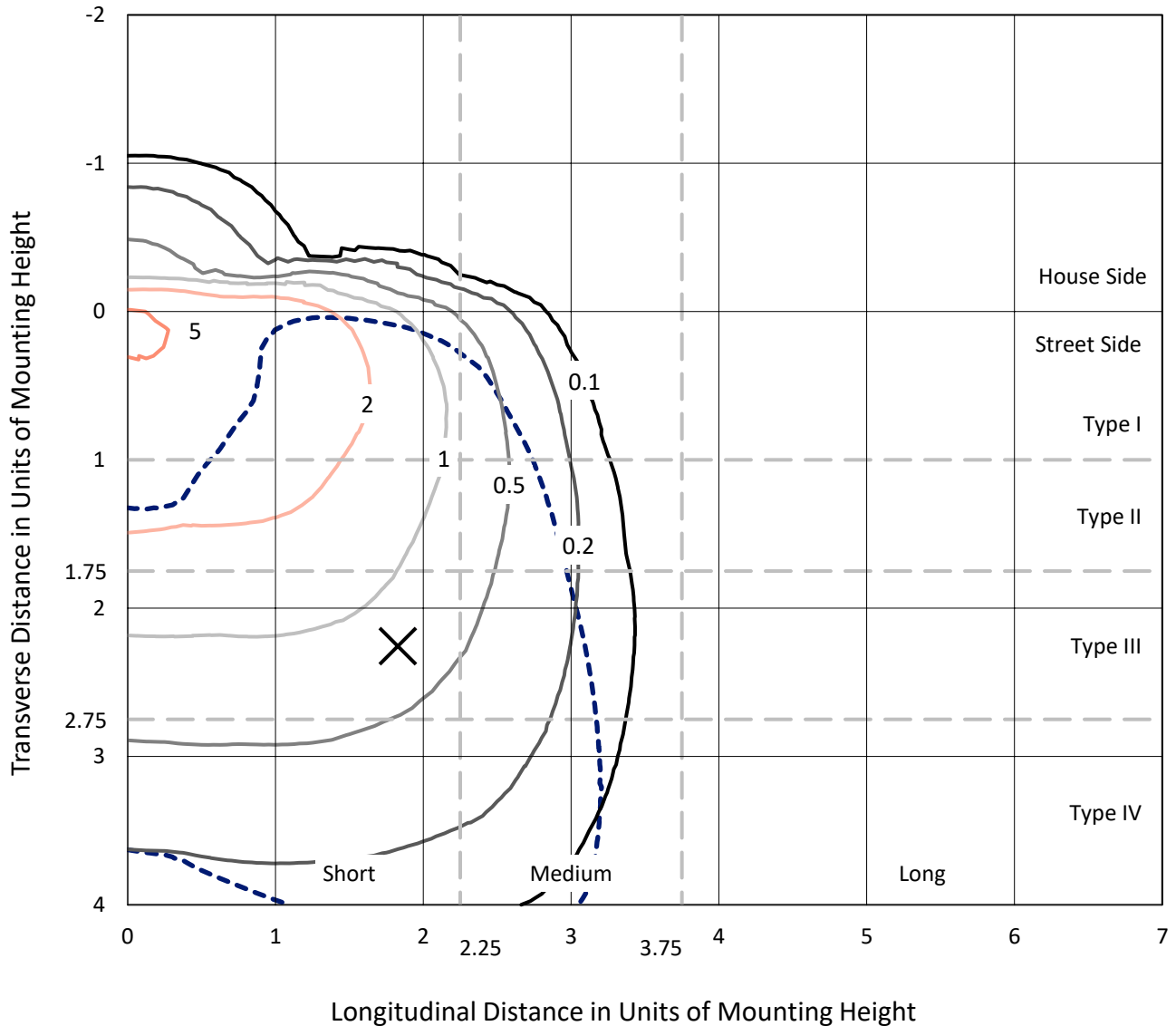
Lumens per Lamp: N/A
Luminaire Lumens: 19008.2 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 217.6
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

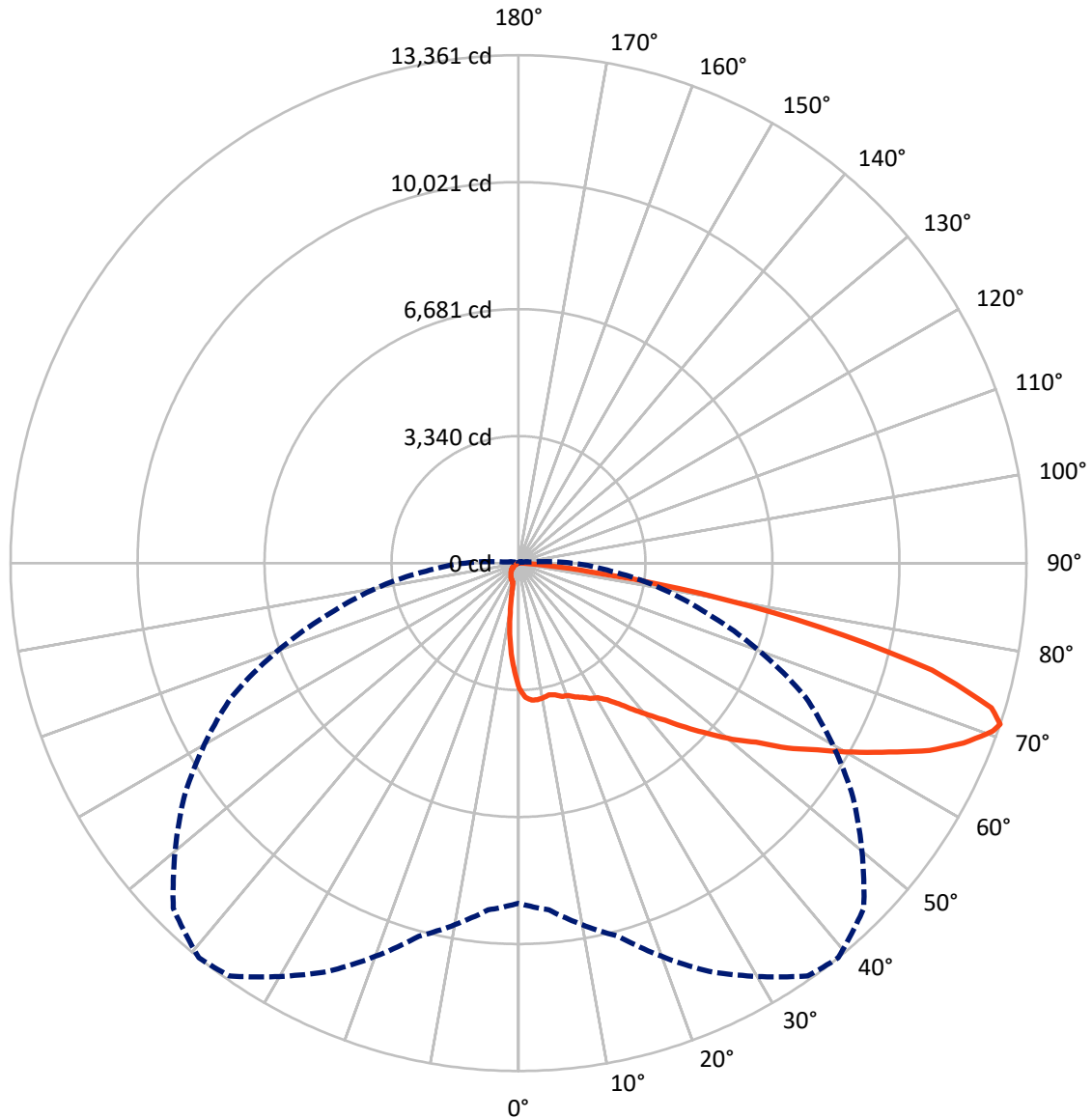
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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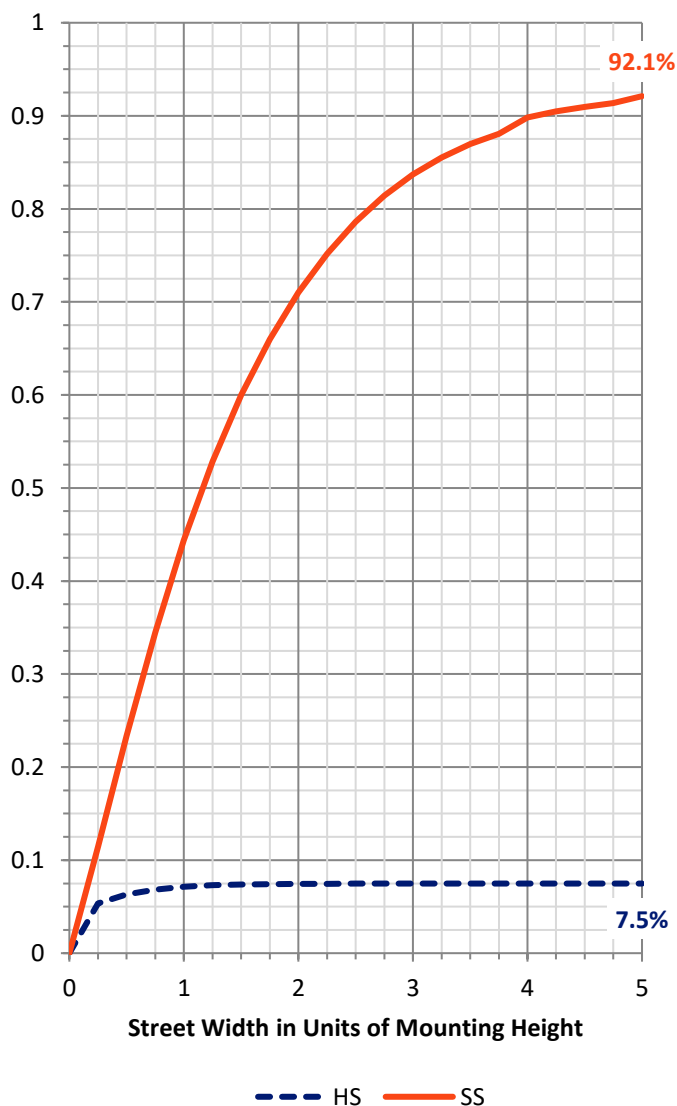
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1431.0	0.0	1431.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	17577.1	0.0	17577.1
	% Fixture	92.5	0.0	92.5
Total	Lumens	19008.2	0.0	19008.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.6	1.5
10°-20°	680.8	3.6
20°-30°	1093.0	5.8
30°-40°	1673.1	8.8
40°-50°	2685.6	14.1
50°-60°	3944.7	20.8
60°-70°	4968.2	26.1
70°-80°	3315.6	17.4
80°-90°	370.5	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°	19008.2	100.0
0°-180°	19008.2	100.0

Coefficient of Utilization

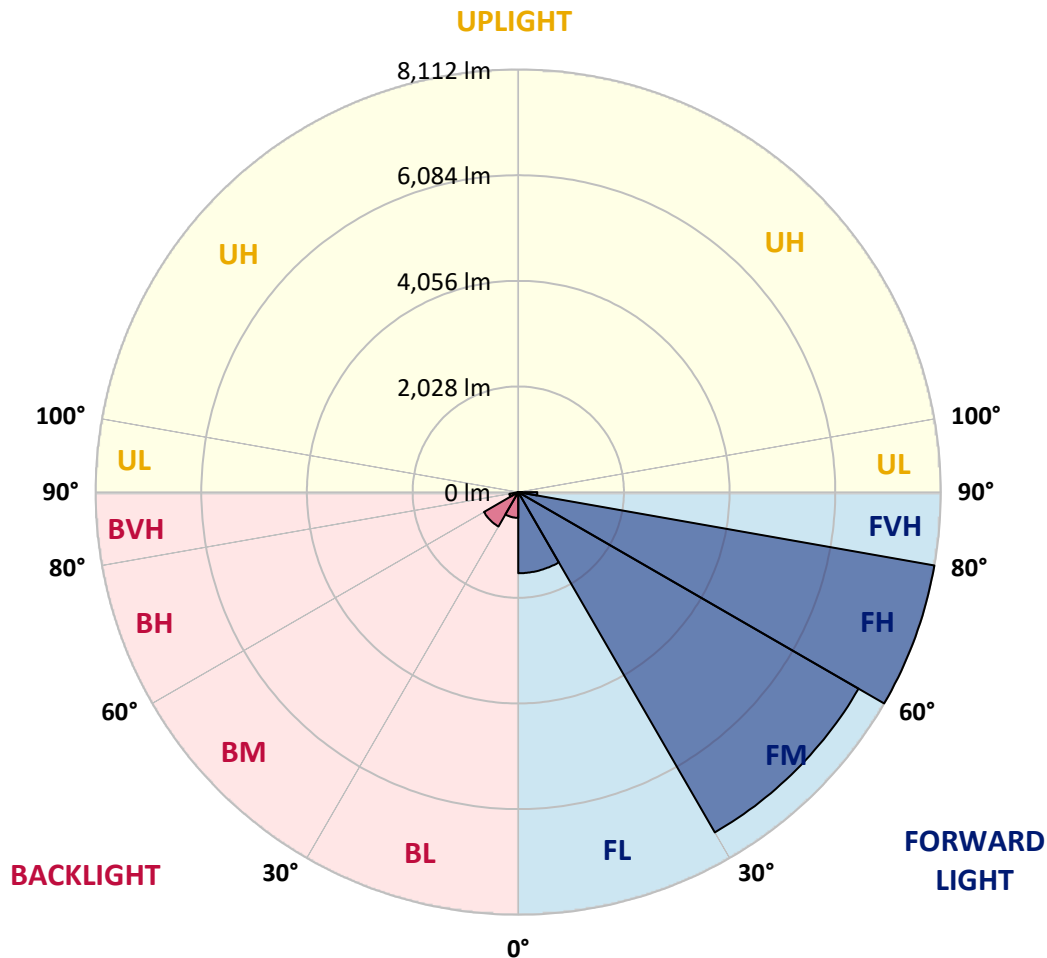


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1556.4	8.2			
FM (30°-60°)	7542.7	39.7			
FH (60°-80°)	8111.6	42.7			G4/12000
FVH (80°-90°)	366.5	1.9			G3/500
BL (0°-30°)	494.1	2.6	B1/500		
BM (30°-60°)	760.6	4.0	B1/1000		
BH (60°-80°)	172.2	0.9	B1/500		G1/500
BVH (80°-90°)	4.1	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5
2.5°	3565.3	3600.2	3565.3	3550.3	3535.4	3537.9	3498.0	3505.5	3458.1	3395.8	3345.9
5°	3677.5	3724.9	3687.5	3670.0	3667.5	3620.1	3600.2	3552.8	3495.5	3398.2	3338.4
7.5°	3667.5	3657.5	3675.0	3660.0	3627.6	3627.6	3605.2	3537.9	3480.5	3370.8	3268.6
10°	3592.7	3622.6	3607.7	3590.2	3597.7	3600.2	3557.8	3510.4	3493.0	3383.3	3216.2
12.5°	3585.2	3535.4	3590.2	3592.7	3560.3	3557.8	3552.8	3540.4	3485.5	3385.8	3228.7
15°	3560.3	3540.4	3595.2	3597.7	3605.2	3597.7	3605.2	3595.2	3540.4	3483.0	3283.6
17.5°	3580.2	3557.8	3635.1	3672.5	3655.0	3690.0	3677.5	3632.6	3585.2	3517.9	3335.9
20°	3585.2	3617.6	3702.4	3717.4	3772.2	3714.9	3712.4	3665.0	3635.1	3562.8	3368.3
22.5°	3677.5	3692.4	3797.2	3829.6	3832.1	3824.6	3762.3	3707.4	3694.9	3605.2	3375.8
25°	3817.1	3869.5	3916.8	3936.8	3944.3	3909.4	3844.5	3774.7	3744.8	3687.5	3453.1
27.5°	4063.9	4031.5	4073.9	4103.8	4019.1	4031.5	3949.2	3889.4	3847.0	3797.2	3542.9
30°	4283.3	4253.4	4255.9	4250.9	4178.6	4111.3	4088.9	3984.1	3931.8	3951.7	3682.5
32.5°	4480.3	4415.5	4470.3	4445.4	4310.8	4290.8	4273.4	4141.2	4151.2	4243.4	3891.9
35°	4662.3	4639.9	4684.7	4639.9	4550.1	4545.1	4527.7	4413.0	4467.8	4600.0	4250.9
37.5°	4829.3	4836.8	4891.7	4869.2	4876.7	4881.7	4871.7	4749.6	4906.6	5203.3	4669.8
40°	4983.9	4974.0	5108.6	5178.4	5193.4	5248.2	5248.2	5218.3	5460.1	5794.2	5250.7
42.5°	5148.5	5173.4	5347.9	5465.1	5607.2	5654.6	5719.4	5734.4	6108.4	6489.8	5844.1
45°	5417.7	5375.4	5597.3	5874.0	5998.7	6165.7	6265.4	6350.2	6801.5	7325.1	6437.5
47.5°	5759.3	5674.5	5869.0	6270.4	6559.6	6696.8	6876.3	6988.5	7429.8	7970.8	6998.4
50°	6138.3	6051.0	6145.8	6699.3	7035.8	7285.2	7514.5	7656.6	8190.2	8693.8	7407.3
52.5°	6567.1	6487.3	6502.3	7145.5	7641.7	7823.7	8125.4	8337.3	8868.3	9130.1	7551.9
55°	7023.4	7003.4	6956.1	7581.9	8172.7	8581.6	8763.6	9017.9	9564.0	9367.0	7709.0
57.5°	7482.1	7419.8	7487.1	8160.3	9025.4	9269.8	9521.6	9673.7	9950.4	9573.9	7649.2
60°	7913.4	7918.4	8013.2	8788.6	9750.9	10097.5	10324.4	10232.1	10346.8	9663.7	7512.0
62.5°	8277.5	8267.5	8506.8	9494.1	10710.8	10945.2	11114.7	10703.4	10531.3	9750.9	7272.7
65°	8604.1	8716.3	9092.7	10334.4	11613.4	11882.6	11780.4	11149.6	10710.8	9494.1	6599.5
67.5°	8850.9	9017.9	9671.2	11124.7	12441.1	12630.6	12488.5	11488.7	10498.9	8486.9	5375.4
70°	8995.5	9165.0	10085.0	11782.9	13101.8	13238.9	12904.9	11226.9	9262.3	6145.8	3353.4
71°	8950.6	9157.6	10164.8	11852.7	13258.9	13361.1	12842.5	10743.2	8329.8	5146.0	2445.8
72.5°	8544.2	8738.7	9833.2	11802.9	13069.4	13007.1	12356.3	9581.4	6557.1	3281.1	1264.1
75°	6277.9	6487.3	8439.5	10209.7	11665.7	11236.9	10000.3	6724.2	3420.7	1004.8	369.0
77.5°	3126.5	3161.4	5238.2	7412.3	8556.7	8130.4	6701.7	3749.8	1279.0	296.7	184.5
80°	1441.1	1451.0	1964.6	3839.5	5173.4	4869.2	3754.8	1850.0	578.4	157.1	144.6
82.5°	982.3	997.3	1184.3	1590.7	2246.4	1894.8	1520.9	1184.3	331.6	94.7	142.1
85°	179.5	164.6	663.2	842.7	867.6	588.4	526.1	1024.7	124.7	54.9	124.7
87.5°	0.0	2.5	92.2	344.1	309.2	137.1	179.5	249.3	12.5	17.5	22.4
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°	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5
2.5°	3303.5	3276.1	3183.8	3081.6	2989.4	2917.1	2824.8	2782.4	2715.1	2677.7	2675.2
5°	3256.1	3181.3	3021.8	2849.7	2657.8	2498.2	2321.2	2221.5	2106.8	2071.9	2064.4
7.5°	3176.3	3069.1	2834.8	2592.9	2298.7	2017.0	1800.1	1568.2	1426.1	1366.3	1343.8
10°	3126.5	2996.8	2677.7	2316.2	1904.8	1508.4	1204.2	957.4	827.7	765.4	750.5
12.5°	3126.5	2986.9	2550.6	2051.9	1505.9	1032.2	745.5	603.4	561.0	546.0	546.0
15°	3119.0	2966.9	2428.4	1780.2	1114.5	693.1	556.0	526.1	521.1	518.6	516.1
17.5°	3156.4	2932.0	2303.7	1488.4	787.9	546.0	511.1	506.1	501.1	501.1	496.1
20°	3183.8	2912.1	2154.1	1179.3	588.4	506.1	491.2	483.7	481.2	478.7	483.7
22.5°	3161.4	2882.2	1969.6	882.6	513.6	481.2	471.2	463.7	458.8	458.8	461.2
25°	3203.8	2854.7	1785.1	665.7	481.2	458.8	448.8	443.8	441.3	438.8	433.8
27.5°	3261.1	2867.2	1565.7	536.0	453.8	436.3	426.3	421.4	418.9	413.9	418.9
30°	3330.9	2864.7	1323.9	468.7	428.8	411.4	401.4	398.9	393.9	391.4	393.9
32.5°	3450.6	2929.5	1074.6	433.8	401.4	386.4	376.5	374.0	371.5	369.0	366.5
35°	3707.4	3009.3	840.2	406.4	376.5	359.0	351.5	346.6	344.1	341.6	339.1
37.5°	4024.0	3186.3	640.8	381.5	351.5	334.1	326.6	324.1	314.1	311.7	309.2
40°	4420.5	3375.8	493.7	354.0	329.1	311.7	304.2	296.7	284.2	279.2	274.3
42.5°	4914.1	3560.3	406.4	329.1	304.2	291.7	279.2	266.8	256.8	246.8	241.8
45°	5407.8	3774.7	356.5	306.7	284.2	269.3	259.3	241.8	224.4	209.4	206.9
47.5°	5819.2	3852.0	326.6	281.7	264.3	251.8	236.9	214.4	189.5	174.5	172.0
50°	6125.8	3807.1	296.7	256.8	241.8	229.4	209.4	182.0	157.1	142.1	137.1
52.5°	6185.7	3610.2	269.3	236.9	219.4	204.4	182.0	152.1	124.7	109.7	107.2
55°	6143.3	3283.6	246.8	219.4	199.5	177.0	152.1	122.2	97.2	82.3	79.8
57.5°	6056.0	2897.1	221.9	197.0	174.5	152.1	124.7	99.7	72.3	57.3	57.3
60°	5759.3	2371.0	197.0	172.0	149.6	129.6	102.2	72.3	49.9	37.4	34.9
62.5°	5345.4	1822.5	172.0	147.1	129.6	107.2	79.8	52.4	29.9	19.9	19.9
65°	4590.0	1276.5	144.6	122.2	107.2	87.3	59.8	32.4	17.5	7.5	7.5
67.5°	3488.0	790.3	119.7	102.2	92.2	69.8	42.4	19.9	7.5	2.5	0.0
70°	2002.0	411.4	94.7	82.3	72.3	52.4	29.9	10.0	5.0	0.0	0.0
71°	1398.7	304.2	84.8	72.3	64.8	47.4	24.9	7.5	2.5	0.0	0.0
72.5°	700.6	202.0	72.3	59.8	52.4	37.4	19.9	7.5	2.5	0.0	0.0
75°	249.3	129.6	49.9	39.9	37.4	27.4	12.5	5.0	2.5	0.0	0.0
77.5°	172.0	104.7	34.9	24.9	24.9	17.5	7.5	2.5	2.5	0.0	0.0
80°	157.1	57.3	22.4	15.0	12.5	10.0	5.0	2.5	0.0	0.0	0.0
82.5°	157.1	42.4	12.5	10.0	7.5	5.0	2.5	0.0	0.0	0.0	0.0
85°	109.7	22.4	7.5	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	17.5	7.5	5.0	2.5	2.5	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)