

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: P483921

Luminaire Tested: **IFLD-L-SA8C-727-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483921
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-727-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

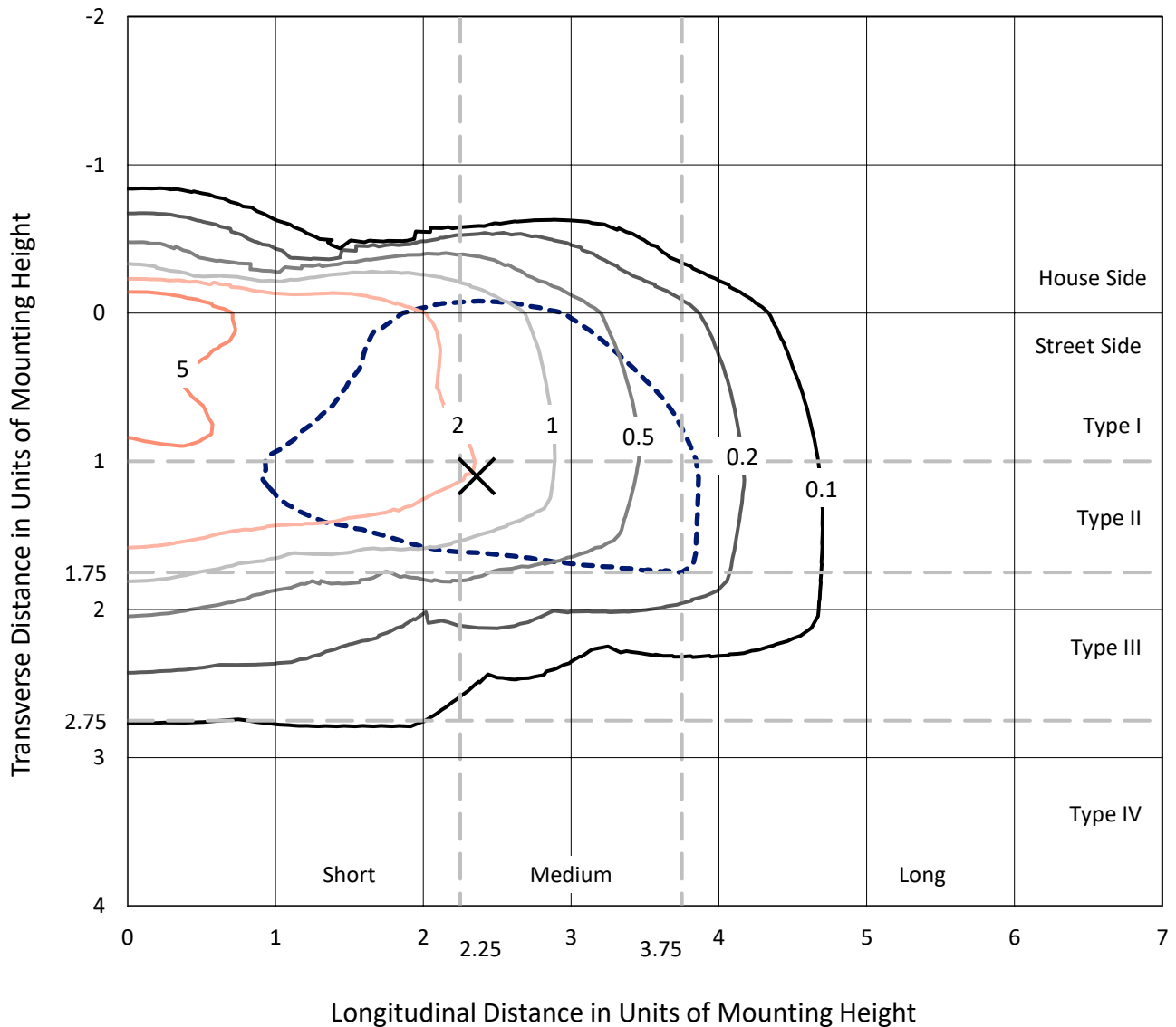
Lumens per Lamp: N/A
Luminaire Lumens: 34873 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
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

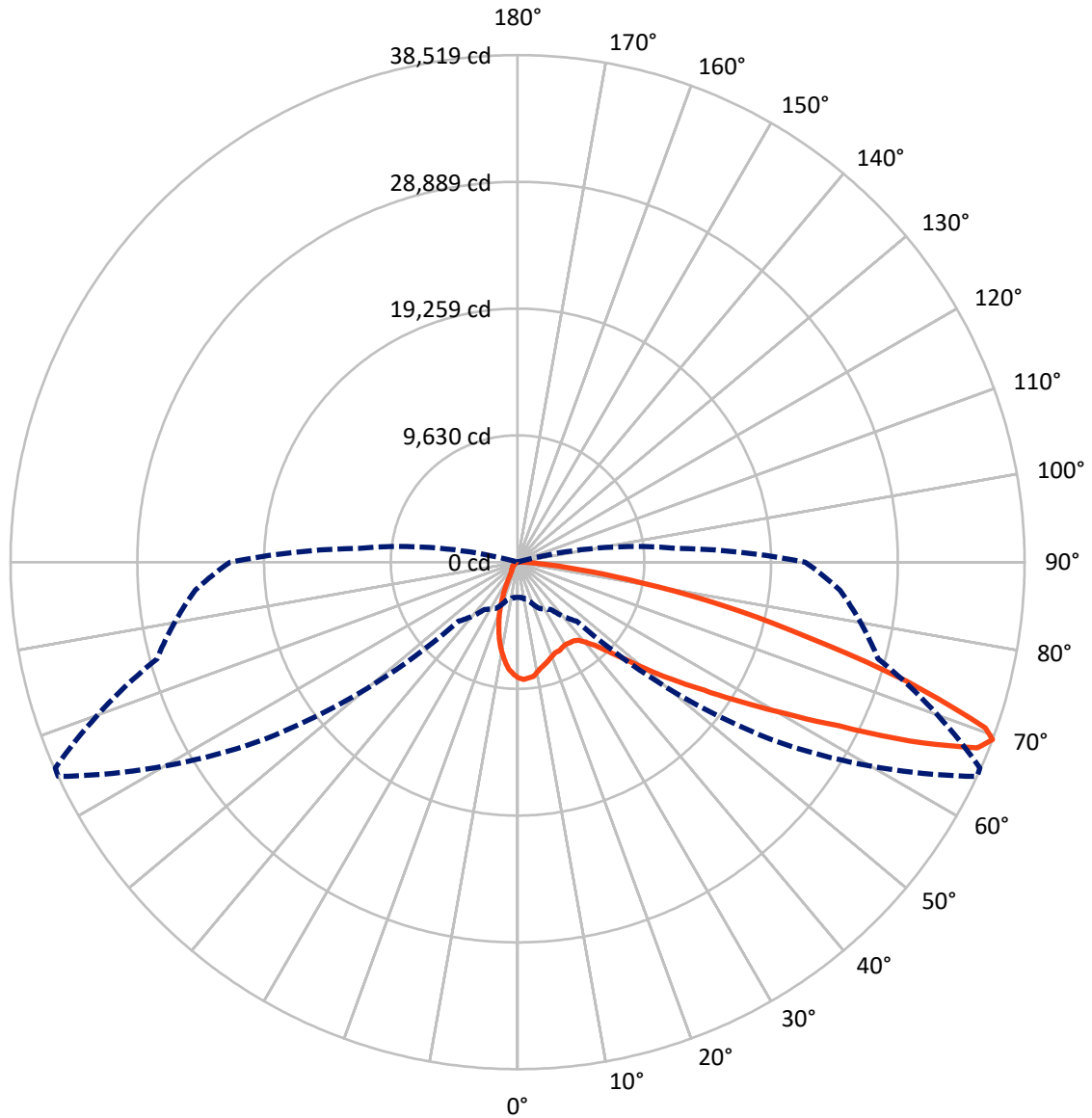
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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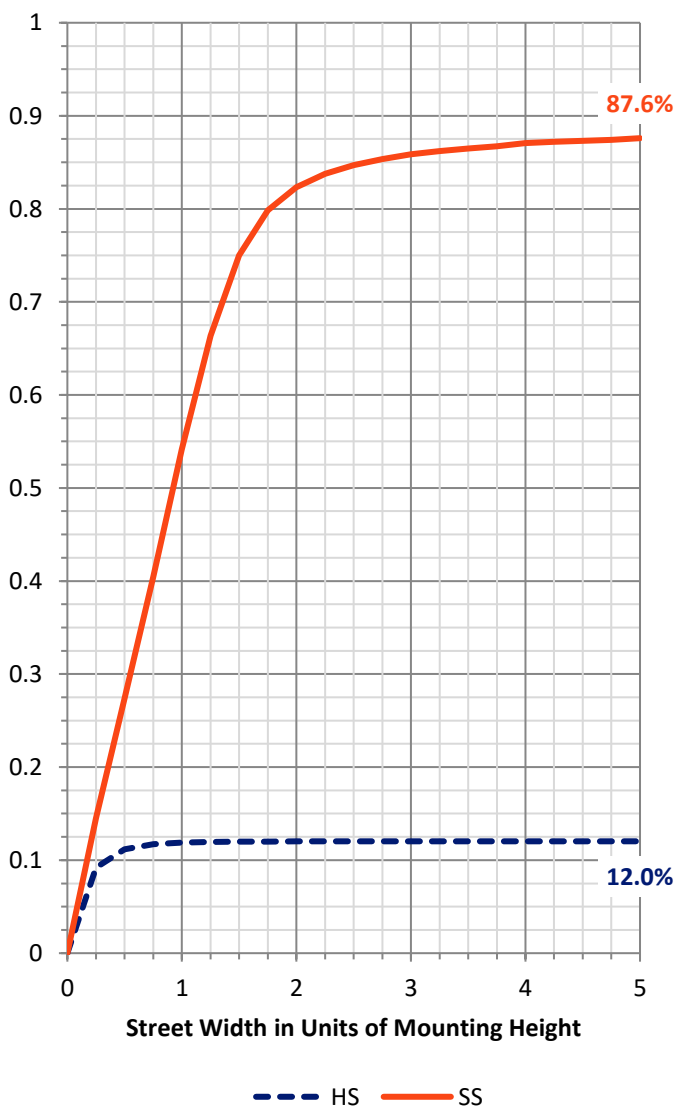
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4230.3	0.0	4230.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	30642.7	0.0	30642.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	34873.0	0.0	34873.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.5	2.1
10°-20°	1574.2	4.5
20°-30°	2191.7	6.3
30°-40°	3105.9	8.9
40°-50°	4894.7	14.0
50°-60°	7942.4	22.8
60°-70°	8870.1	25.4
70°-80°	4994.9	14.3
80°-90°	579.6	1.7
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°	34873.0	100.0
0°-180°	34873.0	100.0

Coefficient of Utilization

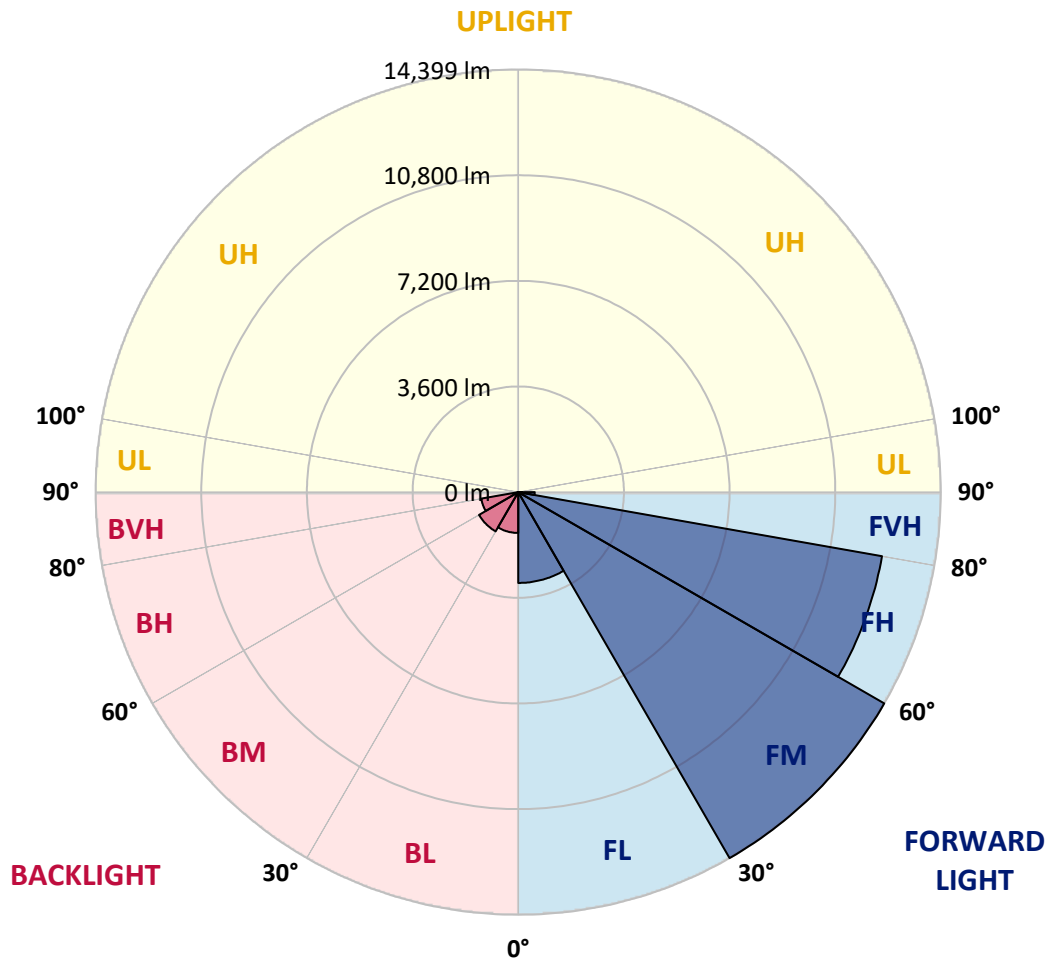


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3094.6	8.9			
FM (30°-60°)	14399.4	41.3			
FH (60°-80°)	12585.0	36.1			G5
FVH (80°-90°)	563.6	1.6			G4/750
BL (0°-30°)	1390.8	4.0	B3/2500		
BM (30°-60°)	1543.6	4.4	B2/2500		
BH (60°-80°)	1279.9	3.7	B3/2500		G3/2500
BVH (80°-90°)	16.0	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3
2.5°	8467.7	8533.5	8552.4	8618.2	8651.2	8792.3	8872.3	8919.3	8895.8	8947.5	8952.2
5°	7865.5	7827.9	7926.7	7997.3	8147.8	8392.4	8641.7	8834.6	8924.0	9008.7	8994.6
7.5°	7221.1	7202.2	7301.0	7461.0	7597.4	7893.8	8293.6	8768.8	8749.9	8956.9	9018.1
10°	6778.9	6797.7	6830.6	6990.5	7192.8	7493.9	7992.6	8434.8	8533.5	8971.0	9093.4
12.5°	6374.3	6407.2	6468.4	6633.0	6868.2	7178.7	7663.3	8180.7	8331.3	8891.1	9135.7
15°	6242.6	6167.3	6289.6	6411.9	6656.5	6934.1	7343.4	7987.9	8053.7	8797.0	9206.3
17.5°	6134.4	6087.3	6143.8	6242.6	6501.3	6727.1	7112.9	7780.9	7903.2	8759.4	9196.9
20°	6167.3	6125.0	6148.5	6223.8	6341.4	6553.1	6910.6	7583.3	7715.0	8585.3	9182.7
22.5°	6261.4	6294.3	6252.0	6270.8	6308.4	6416.6	6802.4	7442.2	7555.1	8552.4	9262.7
25°	6684.8	6628.3	6571.9	6548.3	6327.2	6374.3	6769.4	7432.7	7512.7	8434.8	9196.9
27.5°	7127.0	7079.9	7056.4	6920.0	6618.9	6477.8	6774.2	7301.0	7409.2	8387.7	9116.9
30°	7663.3	7724.4	7630.3	7465.7	7047.0	6698.9	6825.9	7235.2	7385.7	8209.0	9065.1
32.5°	8227.8	8260.7	8307.7	8185.4	7644.4	7032.9	6981.1	7296.3	7305.7	8209.0	8947.5
35°	8867.6	8820.5	8942.8	8952.2	8477.1	7625.6	7277.5	7338.7	7437.5	8171.3	8905.2
37.5°	9418.0	9497.9	9639.1	9864.9	9375.6	8463.0	7738.5	7536.2	7578.6	8345.4	8938.1
40°	10020.1	10100.1	10420.0	10645.8	10368.2	9403.8	8439.5	7997.3	8030.2	8604.1	9107.5
42.5°	10683.4	10838.6	11219.7	11614.8	11539.6	10598.7	9342.7	8674.7	8660.6	9248.6	9455.6
45°	11581.9	11788.9	12202.9	12659.2	12725.1	11967.7	10547.0	9686.1	9733.1	10090.7	10175.3
47.5°	12833.3	12823.8	13228.4	13736.5	14117.5	13388.4	11986.5	11045.6	11040.9	11422.0	11243.2
50°	14042.3	14047.0	14155.2	14743.2	15731.1	15359.4	13769.4	12852.1	12800.3	12988.5	12701.5
52.5°	14602.1	14536.2	14456.2	15166.6	16973.0	17843.3	16027.5	14898.4	14856.1	14743.2	14667.9
55°	14014.0	14037.5	14032.8	14771.4	17626.9	20463.6	18925.3	17151.8	17081.2	16728.4	16831.9
57.5°	12127.6	12052.3	12217.0	13369.5	16878.9	22251.2	23069.7	19993.2	19809.7	18638.3	18403.1
60°	9027.5	9051.0	9187.4	10547.0	15020.7	22627.5	27035.4	23328.5	22538.2	19983.7	19659.2
62.5°	6303.7	6256.7	6308.4	7070.5	10739.9	21122.2	29716.9	27383.6	26621.5	21512.6	21324.5
65°	4511.4	4450.2	4657.2	5123.0	6449.6	16149.8	30097.9	32784.1	32101.9	23954.2	23502.5
67.5°	3245.9	3236.5	3476.5	4323.2	4582.0	9300.3	27275.4	37676.5	37262.5	26852.0	24829.1
69°	2686.1	2690.8	2921.4	3871.6	4375.0	6350.8	23469.6	38518.6	38443.3	28347.9	24579.8
70°	2342.7	2361.5	2629.7	3603.5	4290.3	5221.7	20233.1	37690.6	37615.4	28639.6	23756.6
72.5°	1444.2	1458.3	1811.1	2888.4	4078.6	4262.1	12099.4	30836.5	31095.2	27303.6	20468.3
75°	691.5	696.2	950.3	2088.7	3932.8	4041.0	6482.5	22754.6	23300.3	22044.2	15994.5
77.5°	366.9	366.9	456.3	1110.2	3184.8	3801.1	3848.1	16051.0	16502.6	13938.8	9093.4
80°	183.5	188.2	277.6	578.6	1975.8	3725.8	3006.0	9573.2	9817.8	5687.5	2832.0
82.5°	70.6	75.3	131.7	348.1	1025.5	3147.2	2639.1	4709.0	4647.8	1331.3	691.5
85°	9.4	9.4	47.0	207.0	437.5	1387.8	2178.1	1966.4	1900.5	291.7	334.0
87.5°	0.0	0.0	9.4	61.2	131.7	404.6	842.1	541.0	602.1	80.0	164.6
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°	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3	8792.3
2.5°	8928.7	8829.9	8679.4	8533.5	8378.3	8190.1	7983.1	7907.9	7776.2	7766.8	7842.0
5°	8919.3	8759.4	8495.9	8185.4	7743.2	7409.2	7047.0	6783.6	6581.3	6449.6	6482.5
7.5°	8966.3	8773.5	8317.2	7649.1	7079.9	6416.6	5856.8	5471.1	5118.2	4944.2	4925.4
10°	8891.1	8632.3	7964.3	7028.2	6190.8	5264.1	4445.5	3928.1	3401.2	3208.3	3217.7
12.5°	8933.4	8571.2	7583.3	6388.4	5235.9	4031.6	3053.1	2347.4	1853.5	1693.5	1674.7
15°	8961.6	8439.5	7216.4	5621.6	4177.4	2747.3	1768.8	1331.3	1176.1	1147.8	1143.1
17.5°	8853.4	8279.5	6698.9	4864.2	3095.4	1670.0	1176.1	1086.7	1058.5	1039.6	1030.2
20°	8848.7	8185.4	6252.0	4088.0	2065.2	1138.4	1016.1	983.2	940.9	926.7	926.7
22.5°	8768.8	7987.9	5715.7	3236.5	1317.2	978.5	912.6	860.9	813.8	795.0	790.3
25°	8745.2	7757.3	5212.3	2432.1	1002.0	875.0	809.1	733.9	677.4	649.2	635.1
27.5°	8679.4	7559.8	4704.3	1712.4	875.0	780.9	696.2	616.3	550.4	508.1	503.4
30°	8444.2	7352.8	4139.8	1185.5	795.0	691.5	597.4	503.4	437.5	409.3	399.9
32.5°	8345.4	7159.9	3523.5	912.6	724.5	611.6	503.4	418.7	366.9	338.7	334.0
35°	8227.8	6877.6	2926.1	795.0	658.6	531.6	423.4	352.8	310.5	287.0	287.0
37.5°	8241.9	6651.8	2366.2	719.8	588.0	456.3	362.2	301.1	263.4	239.9	239.9
40°	8199.5	6473.1	1839.4	653.9	522.2	390.5	305.8	254.0	221.1	197.6	192.9
42.5°	8392.4	6426.0	1387.8	597.4	456.3	334.0	263.4	216.4	183.5	155.2	155.2
45°	8717.0	6501.3	1082.0	545.7	390.5	287.0	225.8	178.8	145.8	127.0	122.3
47.5°	9582.6	6797.7	846.8	503.4	334.0	249.3	188.2	145.8	117.6	98.8	94.1
50°	10838.6	7461.0	719.8	442.2	282.3	211.7	155.2	112.9	94.1	75.3	70.6
52.5°	12626.3	8575.9	653.9	390.5	235.2	174.1	122.3	89.4	70.6	56.5	51.7
55°	14573.8	9968.4	592.7	329.3	197.6	141.1	98.8	70.6	51.7	37.6	32.9
57.5°	16093.3	11172.6	541.0	272.8	159.9	112.9	75.3	51.7	37.6	23.5	18.8
60°	17753.9	12019.4	475.1	216.4	131.7	84.7	56.5	37.6	28.2	14.1	14.1
62.5°	19466.3	13012.0	390.5	169.4	103.5	65.9	42.3	28.2	18.8	4.7	4.7
65°	21846.6	13788.2	301.1	131.7	80.0	47.0	32.9	23.5	9.4	0.0	0.0
67.5°	22519.3	13407.2	221.1	103.5	56.5	32.9	23.5	14.1	4.7	0.0	0.0
69°	21846.6	12075.9	192.9	89.4	47.0	28.2	18.8	9.4	4.7	0.0	0.0
70°	20618.8	11040.9	169.4	75.3	42.3	28.2	14.1	9.4	4.7	0.0	0.0
72.5°	17245.9	8467.7	131.7	56.5	32.9	23.5	14.1	9.4	0.0	0.0	0.0
75°	12649.8	5231.1	98.8	42.3	28.2	18.8	14.1	9.4	0.0	0.0	0.0
77.5°	6778.9	1909.9	70.6	28.2	18.8	14.1	14.1	9.4	0.0	0.0	0.0
80°	1858.2	564.5	51.7	18.8	14.1	9.4	9.4	4.7	0.0	0.0	0.0
82.5°	508.1	145.8	32.9	18.8	14.1	9.4	4.7	0.0	0.0	0.0	0.0
85°	272.8	56.5	18.8	14.1	9.4	4.7	0.0	0.0	0.0	0.0	0.0
87.5°	141.1	18.8	14.1	9.4	9.4	4.7	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)