

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: P481072

Luminaire Tested: **IFLD-L-SA8A-830-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481072
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-830-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

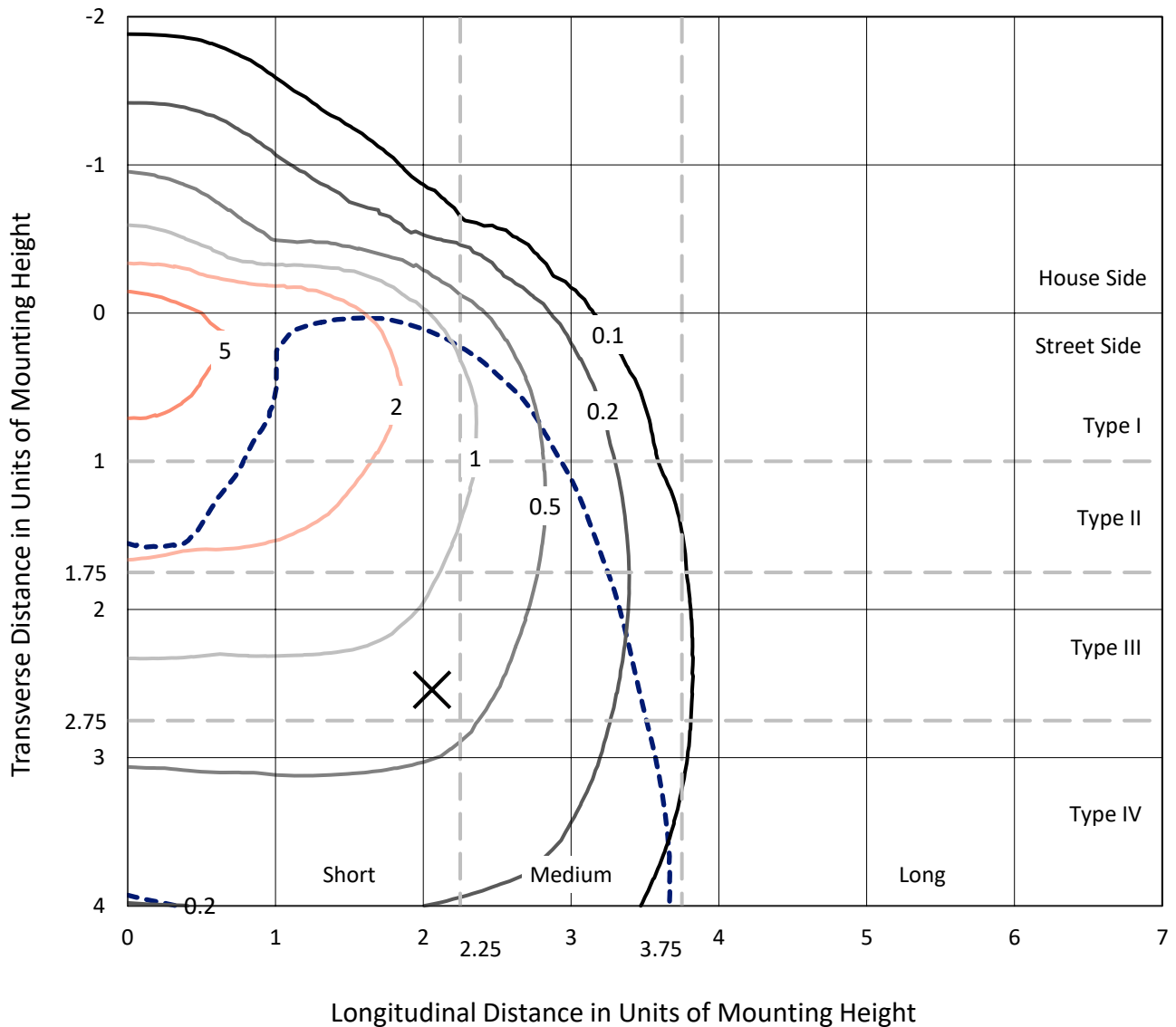
Lumens per Lamp: N/A
Luminaire Lumens: 26329.4 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 247.8
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

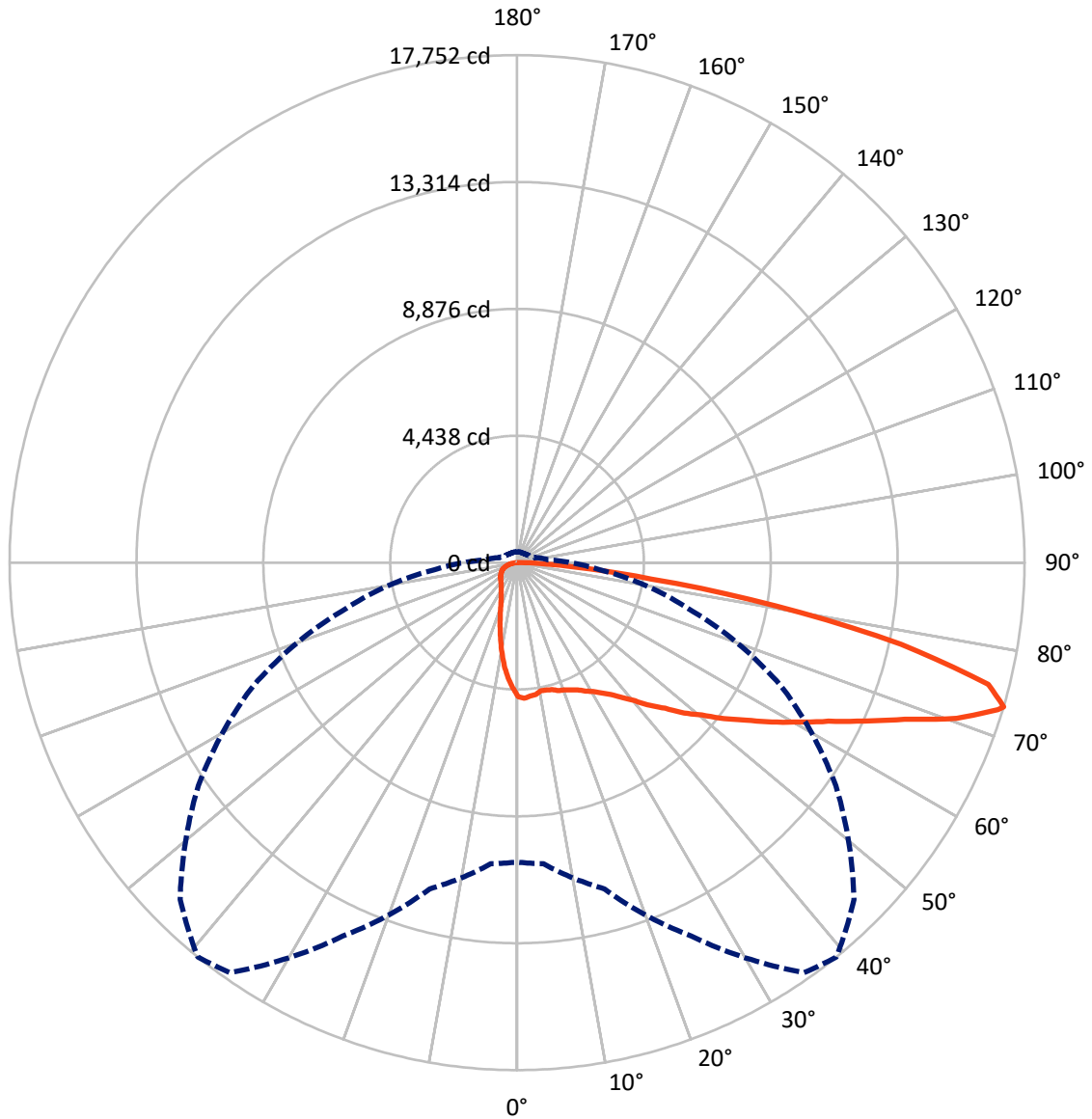
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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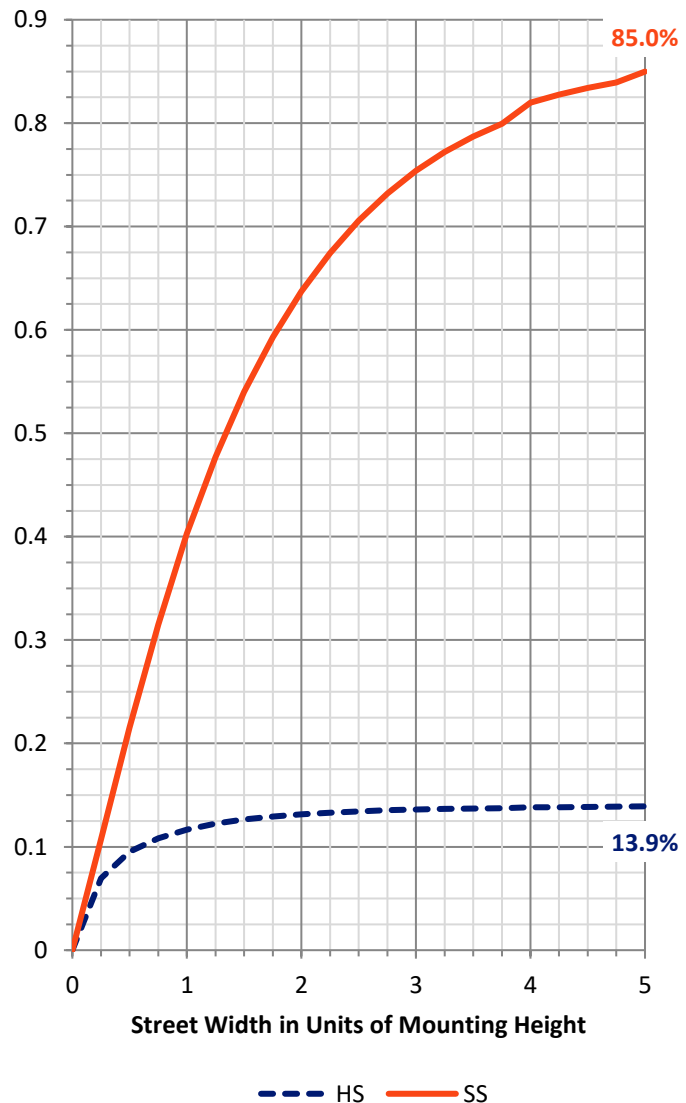
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3701.2	0.0	3701.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	22628.2	0.0	22628.2
	% Fixture	85.9	0.0	85.9
Total	Lumens	26329.4	0.0	26329.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.9	1.5
10°-20°	1034.3	3.9
20°-30°	1580.5	6.0
30°-40°	2304.4	8.8
40°-50°	3482.2	13.2
50°-60°	5042.4	19.2
60°-70°	6406.6	24.3
70°-80°	5193.5	19.7
80°-90°	878.7	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°	26329.4	100.0
0°-180°	26329.4	100.0

Coefficient of Utilization



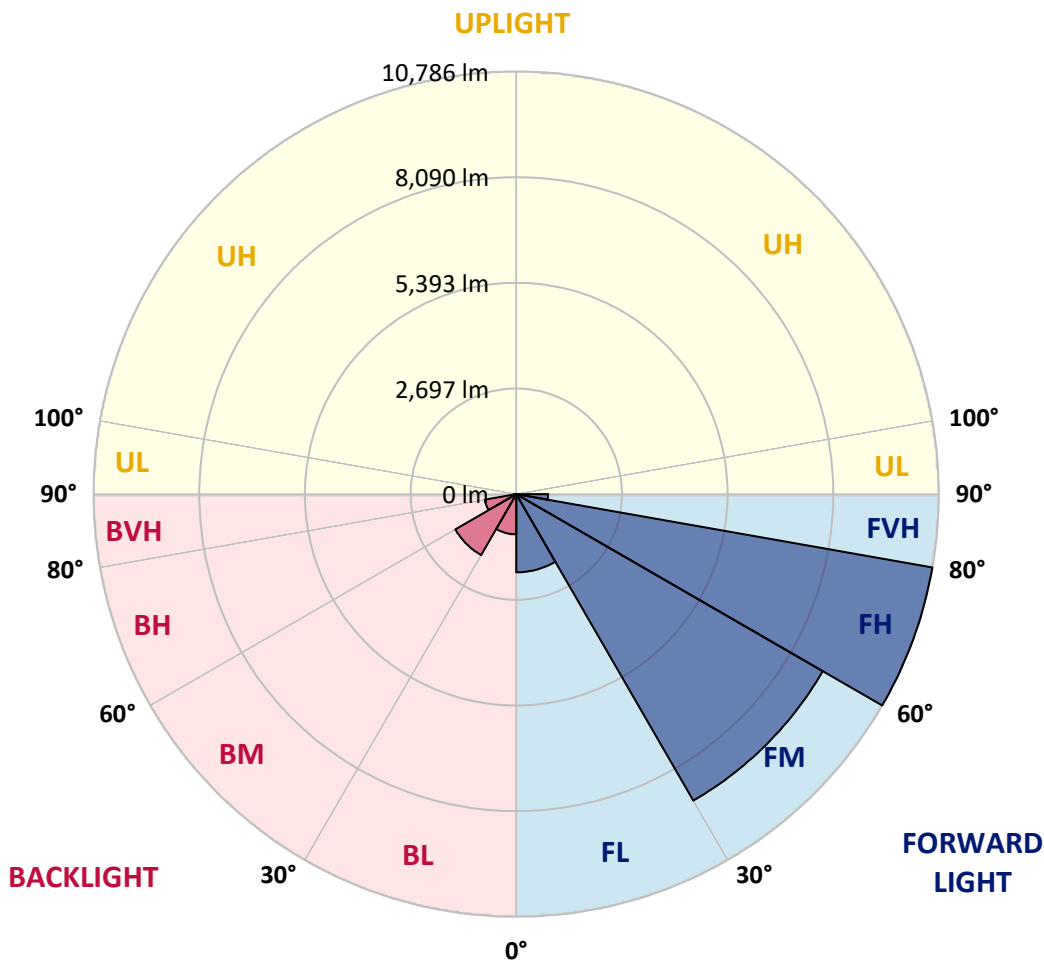
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1995.2	7.6			
FM (30°-60°)	9032.7	34.3			
FH (60°-80°)	10786.1	41.0			G4/12000
FVH (80°-90°)	814.3	3.1			G5
BL (0°-30°)	1026.4	3.9	B3/2500		
BM (30°-60°)	1796.3	6.8	B2/2500		
BH (60°-80°)	814.0	3.1	B2/1000		G2/1000
BVH (80°-90°)	64.5	0.2			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8
2.5°	4798.7	4748.6	4757.5	4739.8	4757.5	4751.6	4742.8	4698.6	4742.8	4698.6	4686.8
5°	4733.9	4733.9	4763.4	4719.2	4725.1	4695.6	4725.1	4692.7	4663.2	4589.6	4569.0
7.5°	4713.3	4710.4	4713.3	4651.4	4680.9	4663.2	4633.8	4598.4	4539.5	4492.4	4424.6
10°	4571.9	4601.4	4569.0	4586.6	4610.2	4557.2	4554.2	4545.4	4518.9	4457.0	4415.8
12.5°	4495.3	4545.4	4563.1	4548.3	4569.0	4574.8	4557.2	4545.4	4513.0	4471.7	4353.9
15°	4527.7	4468.8	4518.9	4616.1	4595.5	4610.2	4613.1	4601.4	4586.6	4510.0	4433.4
17.5°	4536.6	4501.2	4607.3	4627.9	4654.4	4707.4	4672.1	4669.1	4613.1	4560.1	4448.2
20°	4557.2	4542.4	4627.9	4736.9	4739.8	4748.6	4766.3	4722.1	4692.7	4601.4	4430.5
22.5°	4633.8	4683.8	4763.4	4810.5	4837.0	4842.9	4842.9	4754.5	4722.1	4648.5	4513.0
25°	4863.5	4810.5	4922.5	4978.4	4940.1	4931.3	4910.7	4831.1	4795.8	4731.0	4551.3
27.5°	5031.4	5028.5	5093.3	5169.9	5066.8	5087.4	5013.8	4990.2	4910.7	4875.3	4619.0
30°	5261.2	5326.0	5323.1	5346.6	5211.1	5234.7	5140.4	5096.3	5052.1	5072.7	4819.3
32.5°	5555.8	5532.2	5570.5	5552.9	5417.3	5438.0	5326.0	5258.3	5273.0	5334.9	5093.3
35°	5744.3	5720.8	5735.5	5735.5	5694.3	5670.7	5623.6	5535.2	5605.9	5720.8	5399.7
37.5°	5947.6	5977.1	6062.5	6044.8	5991.8	5991.8	5985.9	5924.0	6015.3	6298.1	5888.7
40°	6127.3	6206.8	6259.9	6295.2	6357.1	6357.1	6407.1	6371.8	6536.8	6990.4	6486.7
42.5°	6315.8	6318.8	6607.5	6634.0	6772.4	6831.3	6869.6	6899.1	7208.4	7715.1	7125.9
45°	6557.4	6572.1	6825.4	7028.7	7243.8	7264.4	7408.7	7505.9	7885.9	8507.5	7821.1
47.5°	6875.5	6857.9	7128.9	7452.9	7721.0	7862.4	8036.2	8142.2	8610.6	9367.7	8581.2
50°	7293.8	7240.8	7396.9	7906.6	8221.8	8377.9	8687.2	8863.9	9411.9	10189.6	9102.6
52.5°	7803.5	7715.1	7838.8	8395.6	8749.1	9064.3	9358.8	9556.2	10127.7	10825.9	9488.5
55°	8342.5	8159.9	8195.2	8914.0	9423.7	9721.2	10124.8	10331.0	10914.2	11397.3	9874.4
57.5°	8875.7	8760.8	8690.1	9411.9	10227.9	10513.6	10884.8	11152.8	11647.7	11904.0	10201.3
60°	9323.5	9294.0	9179.2	10183.7	11079.2	11323.7	11712.5	11877.5	12251.6	12372.4	10207.2
62.5°	9691.7	9591.6	9774.2	10805.2	11945.3	12222.2	12649.3	12664.0	12929.2	12664.0	9906.8
65°	9980.4	9986.3	10277.9	11556.4	12946.8	13356.3	13701.0	13662.7	13491.8	12490.2	9196.8
67.5°	10242.6	10354.5	10781.7	12381.2	14234.2	14620.1	15003.0	14496.3	13645.0	11677.2	7809.3
70°	10448.8	10560.7	11462.2	13385.8	15751.3	16316.9	16402.3	14826.3	12941.0	9892.0	5891.6
72.5°	10425.2	10628.5	11848.1	14187.0	17097.5	17586.5	16897.2	13898.3	10781.7	6896.1	3437.8
73°	10475.3	10575.5	11815.7	14410.9	17507.0	17751.5	16667.4	13606.7	10168.9	6186.2	2907.5
75°	9509.1	9847.9	11229.4	14045.6	17068.0	17023.8	15347.7	11338.4	7229.0	3249.2	1408.1
77.5°	7034.6	7249.6	8849.2	11550.5	14010.3	13727.5	11577.0	7246.7	3431.9	1204.8	760.0
80°	3437.8	3605.7	4689.7	6669.3	9161.5	9185.0	7184.8	3770.6	1470.0	680.5	518.5
82.5°	1717.4	1817.6	2253.5	2931.1	4507.1	4722.1	3644.0	2144.6	910.3	385.9	294.6
85°	1122.4	1193.1	1387.5	1434.6	1911.8	2017.9	1696.8	1673.2	592.1	209.2	238.6
87.5°	745.3	757.1	851.3	724.7	765.9	736.5	818.9	1054.6	173.8	88.4	64.8
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°	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8
2.5°	4672.1	4630.8	4586.6	4524.8	4480.6	4412.8	4351.0	4324.5	4318.6	4321.5	4292.0
5°	4551.3	4492.4	4404.0	4277.3	4203.7	4091.7	3997.5	3947.4	3894.4	3903.2	3879.6
7.5°	4383.4	4318.6	4183.1	4035.8	3853.1	3694.0	3605.7	3482.0	3411.3	3358.2	3387.7
10°	4330.3	4218.4	4015.1	3811.9	3529.1	3319.9	3116.7	2975.3	2878.1	2783.8	2825.0
12.5°	4303.8	4191.9	3909.1	3608.6	3243.3	2925.2	2639.4	2465.6	2327.2	2244.7	2277.1
15°	4280.3	4141.8	3808.9	3384.7	2975.3	2557.0	2235.9	2006.1	1873.5	1794.0	1802.8
17.5°	4312.7	4115.3	3661.6	3166.7	2680.7	2232.9	1876.5	1637.9	1502.4	1452.3	1440.5
20°	4280.3	4085.8	3517.3	2948.8	2386.1	1923.6	1581.9	1384.5	1290.3	1249.0	1240.2
22.5°	4292.0	4015.1	3367.1	2707.2	2112.1	1664.4	1384.5	1234.3	1160.7	1140.0	1145.9
25°	4348.0	3973.9	3216.8	2442.1	1841.1	1472.9	1257.9	1143.0	1090.0	1069.3	1075.2
27.5°	4389.3	4009.3	3081.3	2191.7	1611.4	1302.0	1151.8	1075.2	1039.9	1025.1	1022.2
30°	4492.4	4029.9	2948.8	1967.8	1422.8	1190.1	1078.2	1016.3	992.7	983.9	981.0
32.5°	4645.5	4068.2	2795.6	1761.6	1284.4	1084.1	1019.3	966.2	960.3	951.5	954.4
35°	4895.9	4200.7	2624.7	1584.8	1151.8	1013.4	957.4	922.0	922.0	922.0	930.9
37.5°	5255.3	4386.3	2471.5	1416.9	1066.4	951.5	904.4	892.6	886.7	895.5	901.4
40°	5717.8	4610.2	2347.8	1284.4	992.7	910.3	869.0	863.1	860.2	857.2	863.1
42.5°	6224.5	4895.9	2241.8	1181.3	939.7	866.1	836.6	830.7	818.9	824.8	833.7
45°	6728.2	5249.4	2147.5	1098.8	904.4	842.5	801.3	798.3	792.4	789.5	804.2
47.5°	7287.9	5597.0	2118.0	1048.7	877.9	807.2	777.7	774.7	757.1	754.1	765.9
50°	7723.9	5853.3	2150.4	1025.1	839.6	780.6	760.0	745.3	730.6	715.8	715.8
52.5°	8024.4	6030.1	2174.0	1007.5	818.9	745.3	718.8	712.9	698.2	683.4	677.5
55°	8295.4	6136.1	2179.9	1010.4	798.3	704.0	686.4	683.4	674.6	651.0	645.1
57.5°	8386.7	6091.9	2062.1	983.9	786.5	677.5	654.0	659.9	648.1	627.5	624.5
60°	8377.9	5785.6	1794.0	948.6	760.0	648.1	618.6	636.3	636.3	612.7	609.8
62.5°	7868.3	5078.6	1467.0	880.8	730.6	618.6	586.2	612.7	621.6	606.8	603.9
65°	6810.7	4135.9	1225.5	813.0	686.4	586.2	553.8	583.3	598.0	592.1	589.2
67.5°	5635.3	3163.8	1019.3	724.7	630.4	542.0	515.5	536.1	545.0	547.9	550.9
70°	3982.7	2106.3	851.3	627.5	553.8	494.9	465.4	468.4	465.4	474.3	474.3
72.5°	2165.2	1213.7	692.3	533.2	477.2	430.1	409.5	394.7	394.7	391.8	391.8
73°	1852.9	1090.0	659.9	518.5	456.6	418.3	394.7	383.0	383.0	380.0	377.1
75°	1039.9	798.3	565.6	444.8	394.7	365.3	347.6	329.9	327.0	327.0	327.0
77.5°	683.4	621.6	450.7	356.4	318.1	291.6	285.7	268.1	268.1	268.1	265.1
80°	512.6	489.0	347.6	271.0	244.5	223.9	218.0	206.2	203.3	191.5	194.4
82.5°	341.7	385.9	253.3	191.5	165.0	153.2	153.2	150.2	141.4	126.7	126.7
85°	271.0	315.2	182.6	117.8	97.2	82.5	85.4	82.5	79.5	64.8	61.9
87.5°	50.1	126.7	53.0	32.4	23.6	14.7	14.7	8.8	5.9	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)