

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: P481033

Luminaire Tested: **IFLD-L-SA8A-827-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481033
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-827-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

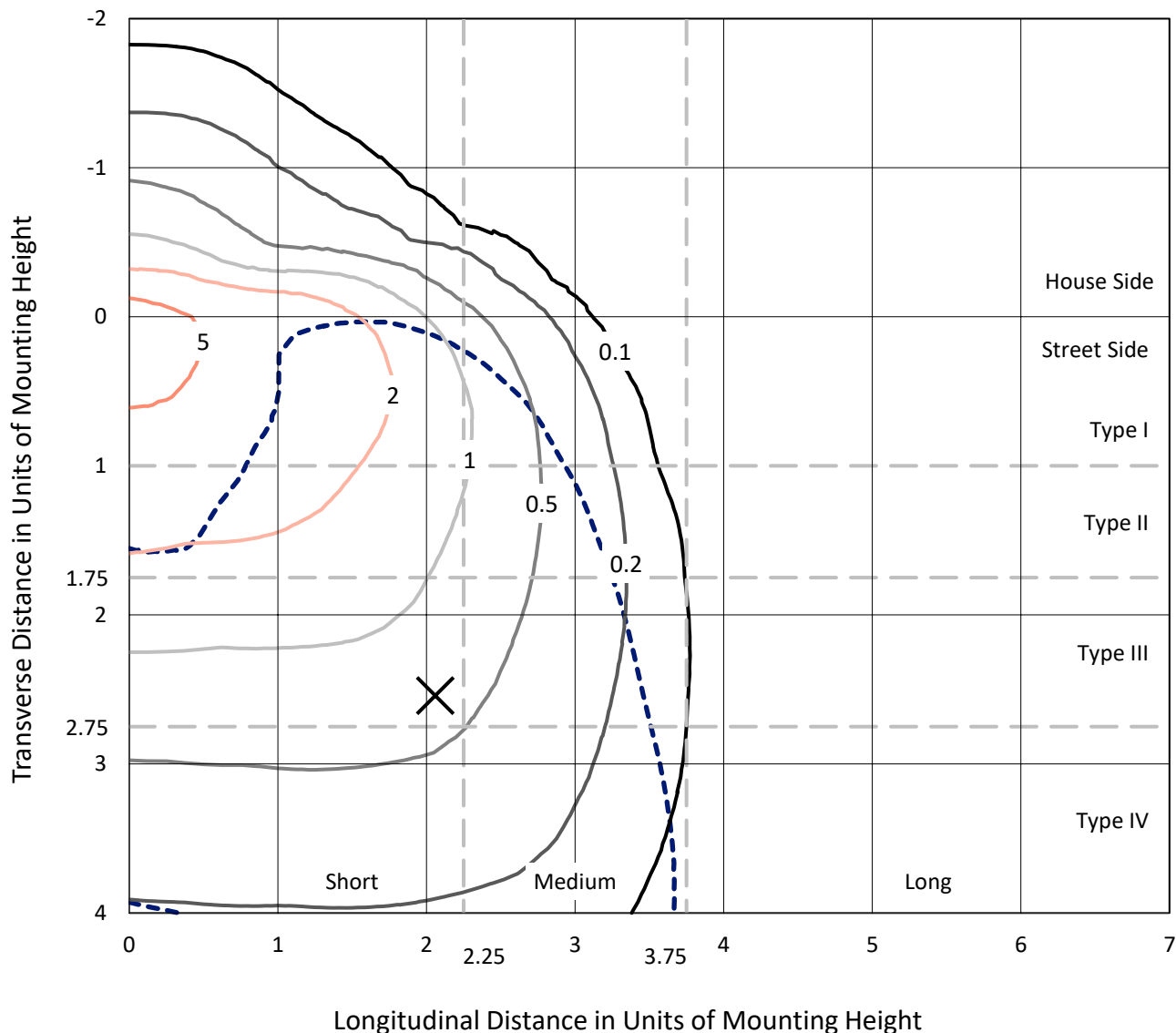
Lumens per Lamp: N/A
Luminaire Lumens: 24357.8 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

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

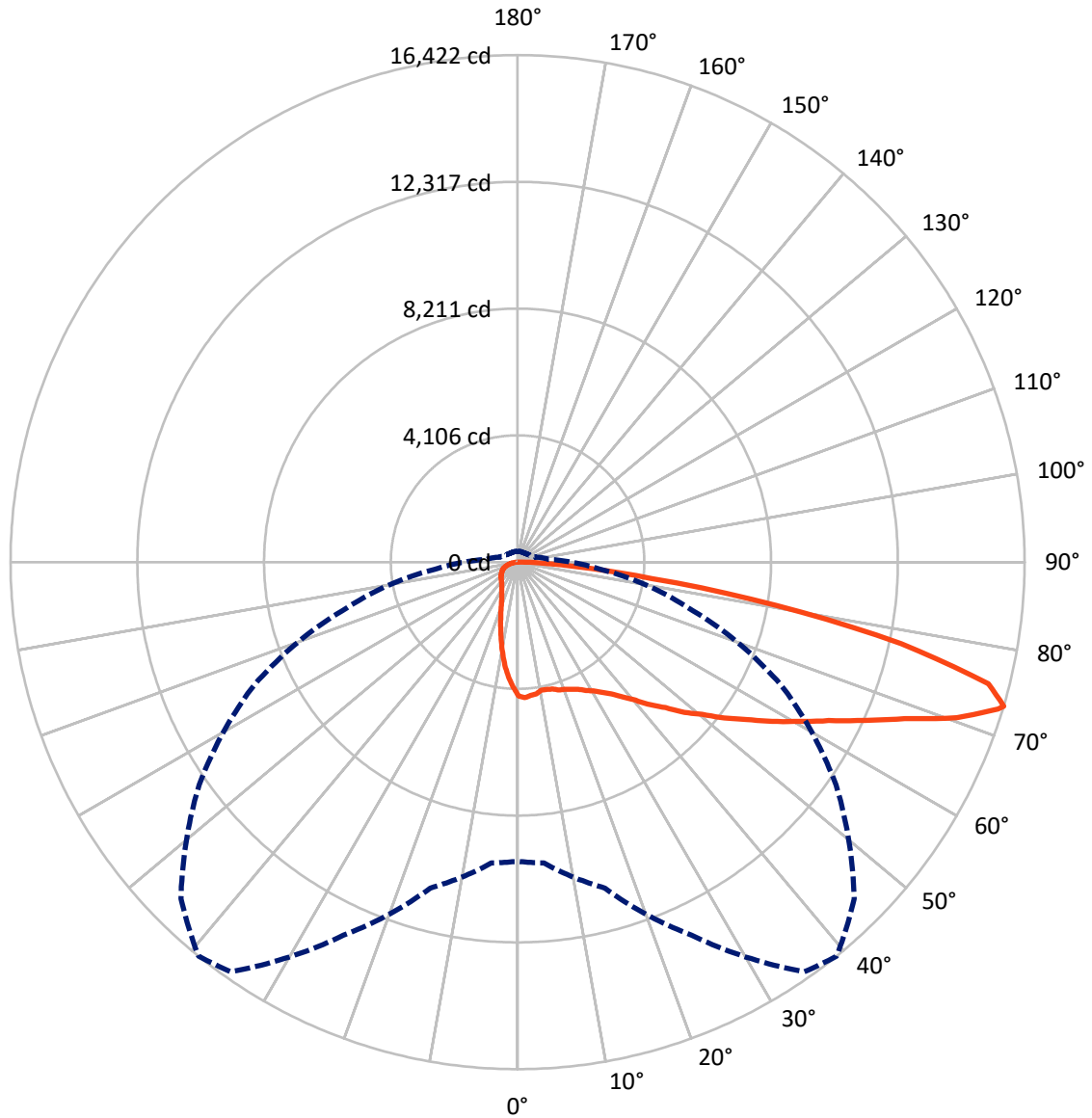
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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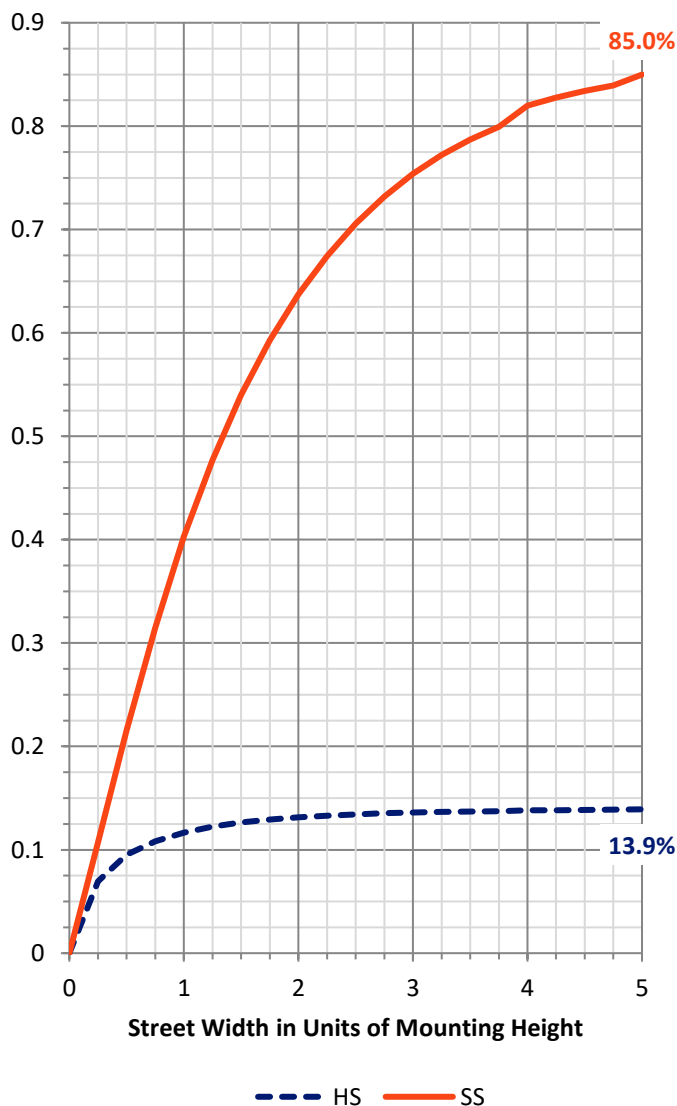
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3424.0	0.0	3424.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	20933.8	0.0	20933.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	24357.8	0.0	24357.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.4	1.5
10°-20°	956.8	3.9
20°-30°	1462.1	6.0
30°-40°	2131.8	8.8
40°-50°	3221.4	13.2
50°-60°	4664.8	19.2
60°-70°	5926.9	24.3
70°-80°	4804.6	19.7
80°-90°	812.9	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°	24357.8	100.0
0°-180°	24357.8	100.0

Coefficient of Utilization



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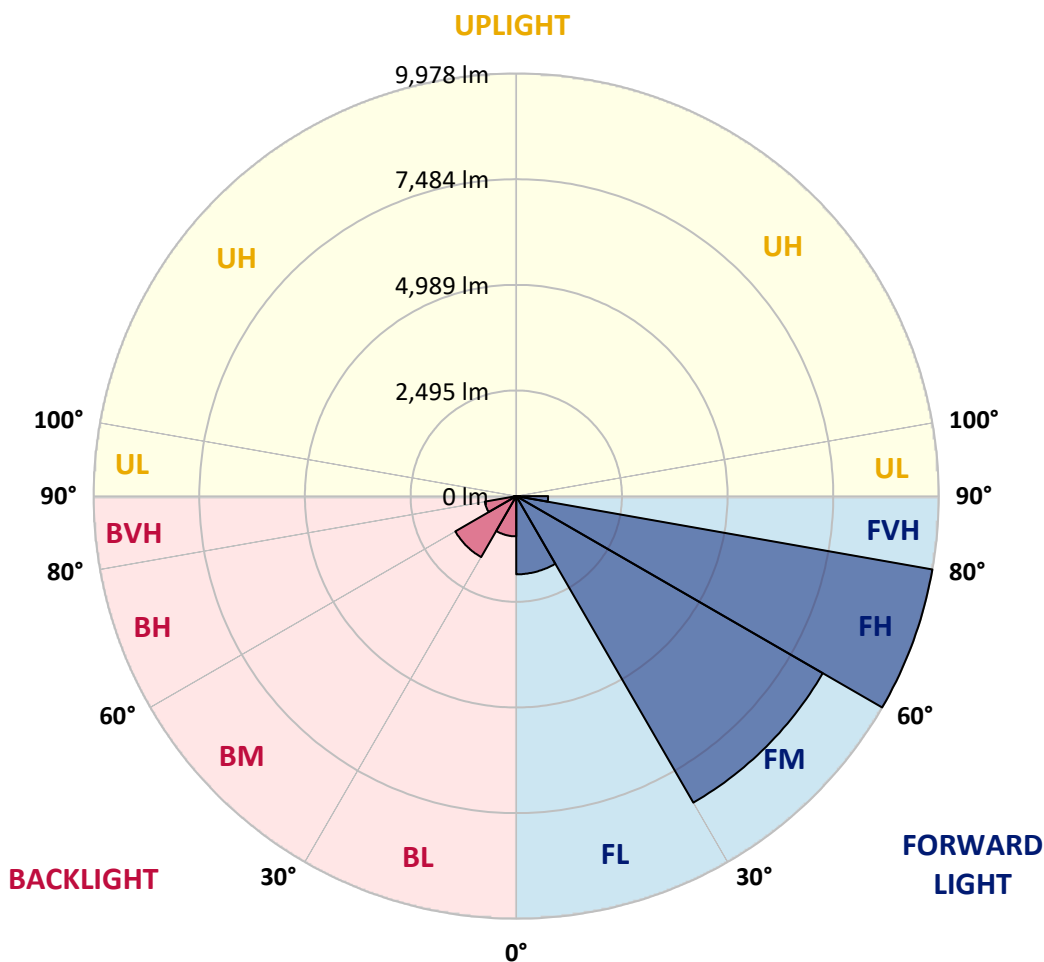
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1845.8	7.6			
FM	(30°-60°)	8356.3	34.3			
FH	(60°-80°)	9978.4	41.0			G4/12000
FVH	(80°-90°)	753.3	3.1			G5
BL	(0°-30°)	949.6	3.9	B2/1000		
BM	(30°-60°)	1661.8	6.8	B2/2500		
BH	(60°-80°)	753.1	3.1	B2/1000		G2/1000
BVH	(80°-90°)	59.6	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4335.8	4335.8	4335.8	4335.8	4335.8	4335.8	4335.8	4335.8	4335.8	4335.8	4335.8
2.5°	4439.4	4393.1	4401.2	4384.9	4401.2	4395.8	4387.6	4346.7	4387.6	4346.7	4335.8
5°	4379.4	4379.4	4406.7	4365.8	4371.3	4344.0	4371.3	4341.3	4314.0	4245.9	4226.8
7.5°	4360.4	4357.6	4360.4	4303.1	4330.4	4314.0	4286.8	4254.1	4199.6	4156.0	4093.3
10°	4229.6	4256.8	4226.8	4243.2	4265.0	4215.9	4213.2	4205.0	4180.5	4123.3	4085.1
12.5°	4158.7	4205.0	4221.4	4207.8	4226.8	4232.3	4215.9	4205.0	4175.1	4136.9	4027.9
15°	4188.7	4134.2	4180.5	4270.4	4251.4	4265.0	4267.7	4256.8	4243.2	4172.3	4101.5
17.5°	4196.9	4164.1	4262.3	4281.3	4305.9	4354.9	4322.2	4319.5	4267.7	4218.7	4115.1
20°	4215.9	4202.3	4281.3	4382.2	4384.9	4393.1	4409.4	4368.5	4341.3	4256.8	4098.7
22.5°	4286.8	4333.1	4406.7	4450.3	4474.8	4480.3	4480.3	4398.5	4368.5	4300.4	4175.1
25°	4499.4	4450.3	4553.9	4605.6	4570.2	4562.0	4543.0	4469.4	4436.7	4376.7	4210.5
27.5°	4654.7	4652.0	4711.9	4782.8	4687.4	4706.5	4638.3	4616.5	4543.0	4510.3	4273.2
30°	4867.3	4927.2	4924.5	4946.3	4820.9	4842.7	4755.5	4714.6	4673.8	4692.8	4458.5
32.5°	5139.8	5118.0	5153.4	5137.1	5011.7	5030.8	4927.2	4864.5	4878.2	4935.4	4711.9
35°	5314.2	5292.4	5306.0	5306.0	5267.9	5246.1	5202.5	5120.7	5186.1	5292.4	4995.3
37.5°	5502.2	5529.5	5608.5	5592.2	5543.1	5543.1	5537.7	5480.4	5564.9	5826.5	5447.7
40°	5668.5	5742.1	5791.1	5823.8	5881.0	5881.0	5927.4	5894.7	6047.3	6467.0	6001.0
42.5°	5842.9	5845.6	6112.7	6137.2	6265.3	6319.8	6355.2	6382.5	6668.6	7137.4	6592.3
45°	6066.4	6080.0	6314.4	6502.4	6701.3	6720.4	6853.9	6943.9	7295.4	7870.5	7235.5
47.5°	6360.7	6344.3	6595.1	6894.8	7142.8	7273.6	7434.4	7532.5	7965.8	8666.2	7938.6
50°	6747.7	6698.6	6843.0	7314.5	7606.1	7750.6	8036.7	8200.2	8707.1	9426.6	8421.0
52.5°	7219.1	7137.4	7251.8	7766.9	8093.9	8385.5	8658.1	8840.6	9369.3	10015.2	8778.0
55°	7717.8	7548.9	7581.6	8246.5	8718.0	8993.3	9366.6	9557.4	10097.0	10543.9	9135.0
57.5°	8211.1	8104.8	8039.4	8707.1	9462.0	9726.3	10069.7	10317.7	10775.6	11012.6	9437.5
60°	8625.3	8598.1	8491.8	9421.1	10249.6	10475.8	10835.5	10988.1	11334.2	11446.0	9442.9
62.5°	8966.0	8873.3	9042.3	9996.1	11050.8	11307.0	11702.1	11715.8	11961.0	11715.8	9164.9
65°	9233.1	9238.5	9508.3	10691.1	11977.4	12356.2	12675.0	12639.6	12481.5	11555.0	8508.2
67.5°	9475.6	9579.2	9974.3	11454.1	13168.3	13525.3	13879.6	13410.9	12623.3	10802.8	7224.6
70°	9666.4	9769.9	10603.9	12383.4	14571.8	15095.0	15174.1	13716.1	11971.9	9151.3	5450.5
72.5°	9644.6	9832.6	10960.9	13124.7	15817.2	16269.6	15631.9	12857.6	9974.3	6379.8	3180.3
73°	9690.9	9783.6	10930.9	13331.8	16196.0	16422.2	15419.3	12587.8	9407.5	5723.0	2689.8
75°	8797.0	9110.4	10388.6	12993.9	15790.0	15749.1	14198.4	10489.4	6687.7	3005.9	1302.7
77.5°	6507.8	6706.8	8186.6	10685.6	12961.2	12699.6	10710.1	6704.1	3174.9	1114.6	703.1
80°	3180.3	3335.7	4338.6	6169.9	8475.5	8497.3	6646.8	3488.3	1359.9	629.5	479.6
82.5°	1588.8	1681.5	2084.8	2711.6	4169.6	4368.5	3371.1	1984.0	842.1	357.0	272.5
85°	1038.3	1103.7	1283.6	1327.2	1768.7	1866.8	1569.7	1547.9	547.8	193.5	220.7
87.5°	689.5	700.4	787.6	670.4	708.6	681.3	757.6	975.6	160.8	81.8	60.0
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°	4335.8	4335.8	4335.8	4335.8	4335.8	4335.8	4335.8	4335.8	4335.8	4335.8	4335.8
2.5°	4322.2	4284.1	4243.2	4186.0	4145.1	4082.4	4025.2	4000.6	3995.2	3997.9	3970.7
5°	4210.5	4156.0	4074.2	3957.0	3888.9	3785.3	3698.1	3651.8	3602.8	3610.9	3589.1
7.5°	4055.1	3995.2	3869.8	3733.6	3564.6	3417.4	3335.7	3221.2	3155.8	3106.8	3134.0
10°	4006.1	3902.5	3714.5	3526.4	3264.8	3071.3	2883.3	2752.5	2662.5	2575.3	2613.5
12.5°	3981.6	3878.0	3616.4	3338.4	3000.5	2706.2	2441.8	2281.0	2152.9	2076.6	2106.6
15°	3959.8	3831.7	3523.7	3131.3	2752.5	2365.5	2068.4	1855.9	1733.2	1659.7	1667.8
17.5°	3989.7	3807.1	3387.5	2929.6	2480.0	2065.7	1736.0	1515.2	1389.9	1343.5	1332.6
20°	3959.8	3779.9	3253.9	2728.0	2207.4	1779.6	1463.4	1280.9	1193.7	1155.5	1147.3
22.5°	3970.7	3714.5	3114.9	2504.5	1954.0	1539.8	1280.9	1141.9	1073.7	1054.7	1060.1
25°	4022.4	3676.3	2975.9	2259.2	1703.3	1362.6	1163.7	1057.4	1008.3	989.3	994.7
27.5°	4060.6	3709.0	2850.6	2027.6	1490.7	1204.6	1065.6	994.7	962.0	948.4	945.7
30°	4156.0	3728.1	2728.0	1820.5	1316.3	1101.0	997.4	940.2	918.4	910.2	907.5
32.5°	4297.7	3763.5	2586.2	1629.7	1188.2	1002.9	942.9	893.9	888.4	880.2	883.0
35°	4529.3	3886.2	2428.2	1466.2	1065.6	937.5	885.7	853.0	853.0	853.0	861.2
37.5°	4861.8	4057.9	2286.5	1310.8	986.5	880.2	836.6	825.7	820.3	828.5	833.9
40°	5289.7	4265.0	2172.0	1188.2	918.4	842.1	803.9	798.5	795.8	793.0	798.5
42.5°	5758.4	4529.3	2073.9	1092.8	869.3	801.2	774.0	768.5	757.6	763.1	771.2
45°	6224.4	4856.4	1986.7	1016.5	836.6	779.4	741.3	738.5	733.1	730.4	744.0
47.5°	6742.2	5177.9	1959.4	970.2	812.1	746.7	719.5	716.7	700.4	697.7	708.6
50°	7145.5	5415.0	1989.4	948.4	776.7	722.2	703.1	689.5	675.9	662.2	662.2
52.5°	7423.5	5578.5	2011.2	932.0	757.6	689.5	665.0	659.5	645.9	632.3	626.8
55°	7674.2	5676.7	2016.7	934.8	738.5	651.3	635.0	632.3	624.1	602.3	596.8
57.5°	7758.7	5635.8	1907.7	910.2	727.6	626.8	605.0	610.5	599.6	580.5	577.7
60°	7750.6	5352.3	1659.7	877.5	703.1	599.6	572.3	588.6	588.6	566.8	564.1
62.5°	7279.1	4698.3	1357.2	814.8	675.9	572.3	542.3	566.8	575.0	561.4	558.7
65°	6300.7	3826.2	1133.7	752.2	635.0	542.3	512.3	539.6	553.2	547.8	545.0
67.5°	5213.4	2926.9	942.9	670.4	583.2	501.4	476.9	496.0	504.2	506.9	509.6
70°	3684.5	1948.5	787.6	580.5	512.3	457.8	430.6	433.3	430.6	438.8	438.8
72.5°	2003.0	1122.8	640.4	493.3	441.5	397.9	378.8	365.2	365.2	362.5	362.5
73°	1714.2	1008.3	610.5	479.6	422.4	387.0	365.2	354.3	354.3	351.6	348.8
75°	962.0	738.5	523.2	411.5	365.2	337.9	321.6	305.2	302.5	302.5	302.5
77.5°	632.3	575.0	417.0	329.8	294.3	269.8	264.3	248.0	248.0	248.0	245.3
80°	474.2	452.4	321.6	250.7	226.2	207.1	201.7	190.8	188.0	177.1	179.9
82.5°	316.1	357.0	234.4	177.1	152.6	141.7	141.7	139.0	130.8	117.2	117.2
85°	250.7	291.6	169.0	109.0	89.9	76.3	79.0	76.3	73.6	60.0	57.2
87.5°	46.3	117.2	49.1	30.0	21.8	13.6	13.6	8.2	5.5	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)