

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: P480901

Luminaire Tested: **IFLD-S-SA6A-740-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480901
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

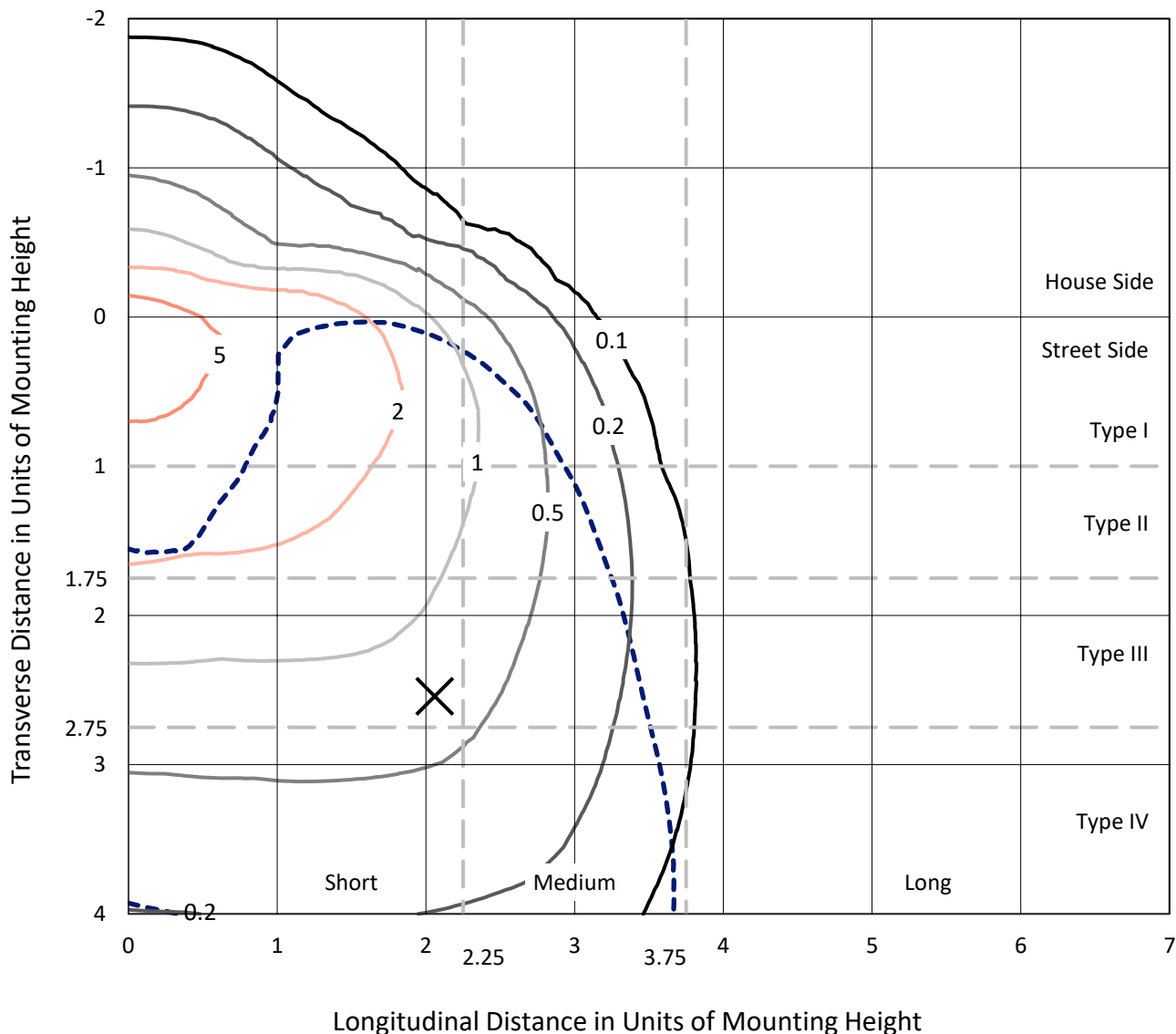
Lumens per Lamp: N/A
Luminaire Lumens: 26106.8 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 189.6
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

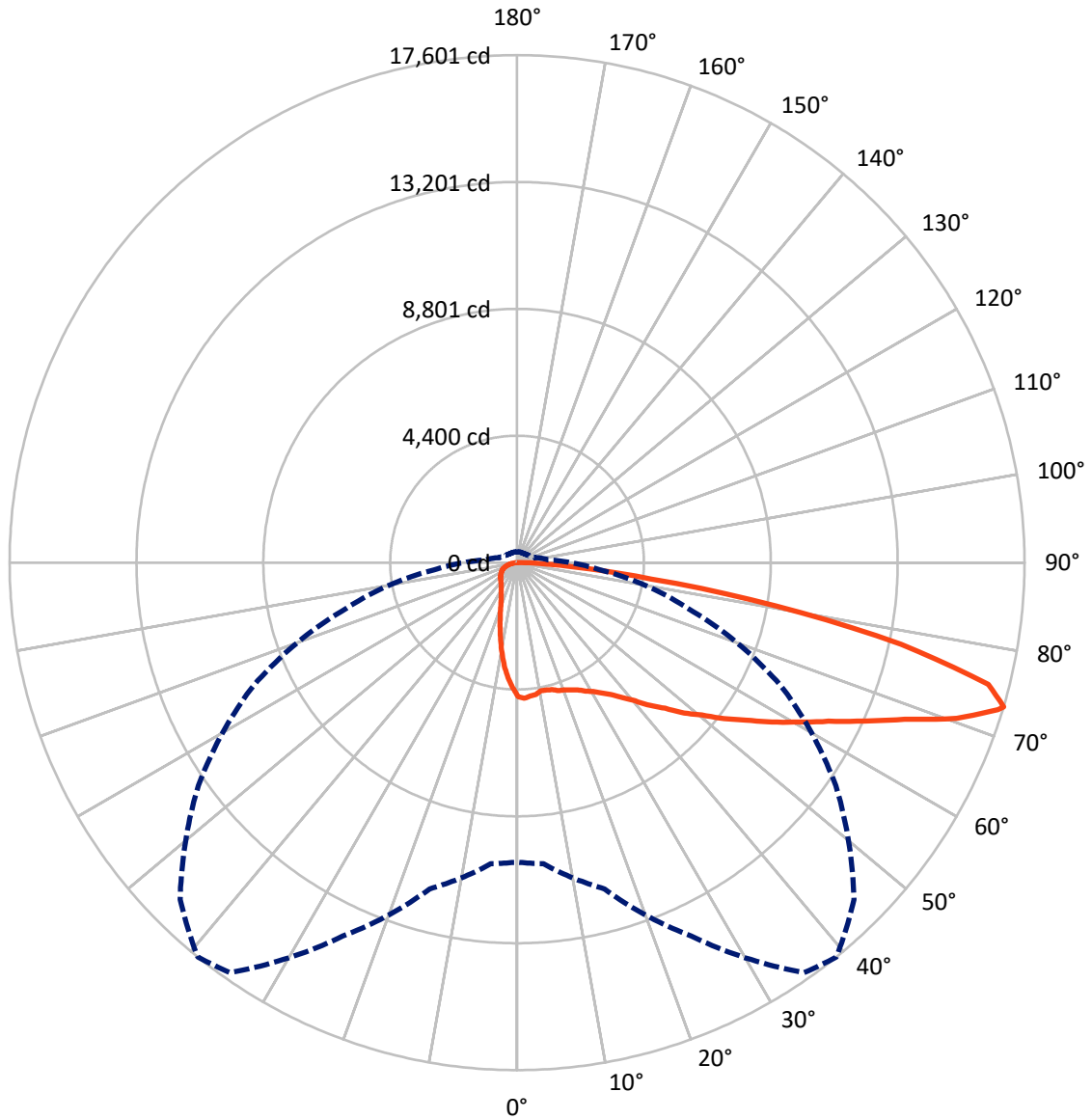
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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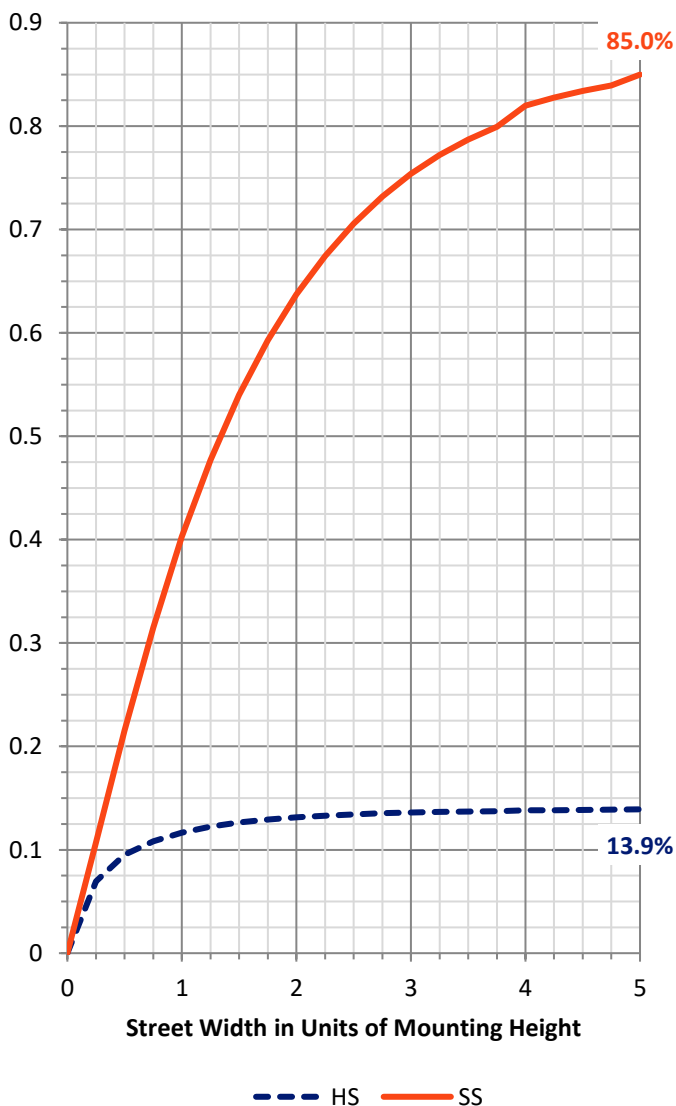
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3669.9	0.0	3669.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	22436.9	0.0	22436.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	26106.8	0.0	26106.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.4	1.5
10°-20°	1025.5	3.9
20°-30°	1567.1	6.0
30°-40°	2284.9	8.8
40°-50°	3452.7	13.2
50°-60°	4999.8	19.2
60°-70°	6352.4	24.3
70°-80°	5149.6	19.7
80°-90°	871.3	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°	26106.8	100.0
0°-180°	26106.8	100.0

Coefficient of Utilization



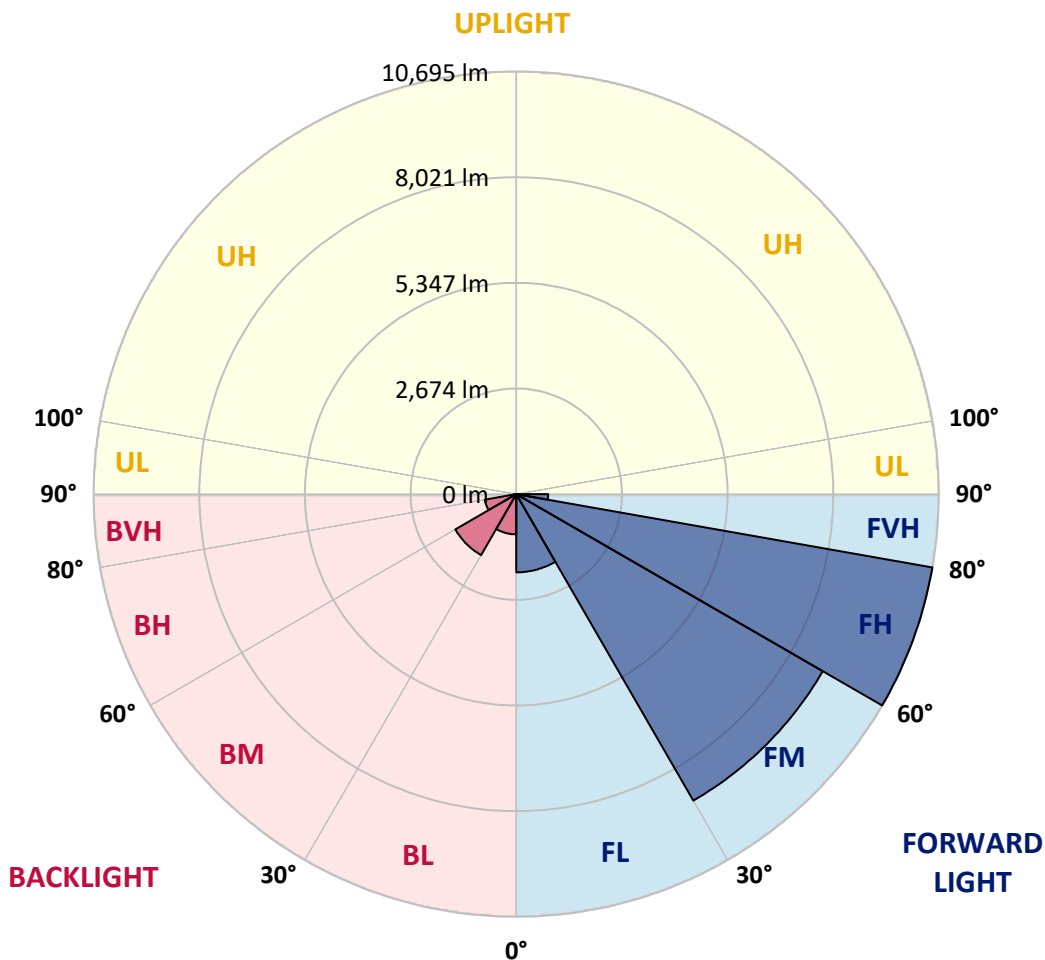
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1978.3	7.6			
FM (30°-60°)	8956.3	34.3			
FH (60°-80°)	10694.9	41.0			G4/12000
FVH (80°-90°)	807.4	3.1			G5
BL (0°-30°)	1017.7	3.9	B3/2500		
BM (30°-60°)	1781.1	6.8	B2/2500		
BH (60°-80°)	807.1	3.1	B2/1000		G2/1000
BVH (80°-90°)	63.9	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°	4647.2	4647.2	4647.2	4647.2	4647.2	4647.2	4647.2	4647.2	4647.2	4647.2	4647.2
2.5°	4758.2	4708.5	4717.3	4699.8	4717.3	4711.4	4702.7	4658.9	4702.7	4658.9	4647.2
5°	4693.9	4693.9	4723.1	4679.3	4685.1	4655.9	4685.1	4653.0	4623.8	4550.8	4530.3
7.5°	4673.5	4670.5	4673.5	4612.1	4641.3	4623.8	4594.6	4559.5	4501.1	4454.4	4387.2
10°	4533.3	4562.5	4530.3	4547.9	4571.2	4518.7	4515.7	4507.0	4480.7	4419.3	4378.5
12.5°	4457.3	4507.0	4524.5	4509.9	4530.3	4536.2	4518.7	4507.0	4474.8	4433.9	4317.1
15°	4489.4	4431.0	4480.7	4577.1	4556.6	4571.2	4574.2	4562.5	4547.9	4471.9	4396.0
17.5°	4498.2	4463.2	4568.3	4588.8	4615.0	4667.6	4632.6	4629.6	4574.2	4521.6	4410.6
20°	4518.7	4504.0	4588.8	4696.8	4699.8	4708.5	4726.0	4682.2	4653.0	4562.5	4393.1
22.5°	4594.6	4644.3	4723.1	4769.9	4796.1	4802.0	4802.0	4714.4	4682.2	4609.2	4474.8
25°	4822.4	4769.9	4880.8	4936.3	4898.4	4889.6	4869.2	4790.3	4755.2	4691.0	4512.8
27.5°	4988.9	4986.0	5050.3	5126.2	5024.0	5044.4	4971.4	4948.0	4869.2	4834.1	4580.0
30°	5216.8	5281.0	5278.1	5301.5	5167.1	5190.5	5097.0	5053.2	5009.4	5029.8	4778.6
32.5°	5508.8	5485.5	5523.4	5505.9	5371.6	5392.0	5281.0	5213.8	5228.4	5289.8	5050.3
35°	5695.8	5672.4	5687.0	5687.0	5646.1	5622.8	5576.0	5488.4	5558.5	5672.4	5354.0
37.5°	5897.3	5926.5	6011.2	5993.7	5941.1	5941.1	5935.3	5874.0	5964.5	6244.9	5838.9
40°	6075.5	6154.4	6206.9	6242.0	6303.3	6303.3	6353.0	6317.9	6481.5	6931.3	6431.9
42.5°	6262.4	6265.4	6551.6	6577.9	6715.2	6773.6	6811.6	6840.8	7147.5	7649.9	7065.7
45°	6502.0	6516.6	6767.8	6969.3	7182.5	7203.0	7346.1	7442.5	7819.3	8435.6	7755.0
47.5°	6817.4	6799.9	7068.6	7389.9	7655.7	7795.9	7968.3	8073.4	8537.8	9288.5	8508.6
50°	7232.2	7179.6	7334.4	7839.7	8152.3	8307.1	8613.8	8789.0	9332.3	10103.4	9025.6
52.5°	7737.5	7649.9	7772.6	8324.6	8675.1	8987.7	9279.7	9475.4	10042.1	10734.4	9408.3
55°	8272.0	8090.9	8126.0	8838.7	9344.0	9639.0	10039.2	10243.6	10822.0	11301.0	9790.9
57.5°	8800.7	8686.8	8616.7	9332.3	10141.4	10424.7	10792.8	11058.6	11549.3	11803.4	10115.1
60°	9244.7	9215.5	9101.6	10097.6	10985.6	11228.0	11613.6	11777.1	12148.1	12267.8	10121.0
62.5°	9609.8	9510.5	9691.6	10713.9	11844.3	12118.9	12542.4	12557.0	12819.9	12557.0	9823.0
65°	9896.1	9901.9	10191.1	11458.7	12837.4	13243.4	13585.2	13547.2	13377.8	12384.7	9119.1
67.5°	10156.0	10267.0	10690.5	12276.6	14113.9	14496.5	14876.2	14373.8	13529.7	11578.5	7743.3
70°	10360.5	10471.5	11365.3	13272.6	15618.1	16178.9	16263.6	14701.0	12831.6	9808.4	5841.8
72.5°	10337.1	10538.7	11747.9	14067.1	16953.0	17437.9	16754.4	13780.9	10690.5	6837.9	3408.7
73°	10386.8	10486.1	11715.8	14289.1	17359.0	17601.4	16526.5	13491.7	10083.0	6133.9	2882.9
75°	9428.7	9764.6	11134.5	13926.9	16923.8	16880.0	15218.0	11242.6	7167.9	3221.8	1396.2
77.5°	6975.1	7188.4	8774.4	11452.9	13891.9	13611.5	11479.2	7185.4	3402.9	1194.7	753.6
80°	3408.7	3575.2	4650.1	6612.9	9084.0	9107.4	7124.1	3738.8	1457.5	674.7	514.1
82.5°	1702.9	1802.2	2234.5	2906.3	4469.0	4682.2	3613.2	2126.4	902.6	382.6	292.1
85°	1112.9	1183.0	1375.8	1422.5	1895.7	2000.8	1682.4	1659.1	587.1	207.4	236.6
87.5°	739.0	750.7	844.1	718.5	759.4	730.2	812.0	1045.7	172.3	87.6	64.3
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°	4647.2	4647.2	4647.2	4647.2	4647.2	4647.2	4647.2	4647.2	4647.2	4647.2	4647.2
2.5°	4632.6	4591.7	4547.9	4486.5	4442.7	4375.5	4314.2	4287.9	4282.1	4285.0	4255.8
5°	4512.8	4454.4	4366.8	4241.2	4168.1	4057.1	3963.7	3914.0	3861.4	3870.2	3846.8
7.5°	4346.3	4282.1	4147.7	4001.7	3820.6	3662.8	3575.2	3452.5	3382.4	3329.8	3359.1
10°	4293.7	4182.7	3981.2	3779.7	3499.3	3291.9	3090.3	2950.1	2853.7	2760.3	2801.2
12.5°	4267.5	4156.5	3876.1	3578.1	3215.9	2900.5	2617.1	2444.8	2307.5	2225.7	2257.9
15°	4244.1	4106.8	3776.7	3356.1	2950.1	2535.4	2217.0	1989.1	1857.7	1778.8	1787.6
17.5°	4276.2	4080.5	3630.7	3140.0	2658.0	2214.1	1860.6	1624.0	1489.7	1440.0	1428.3
20°	4244.1	4051.3	3487.6	2923.8	2365.9	1907.4	1568.5	1372.8	1279.4	1238.5	1229.7
22.5°	4255.8	3981.2	3338.6	2684.3	2094.3	1650.3	1372.8	1223.9	1150.8	1130.4	1136.2
25°	4311.3	3940.3	3189.6	2421.4	1825.6	1460.5	1247.2	1133.3	1080.7	1060.3	1066.1
27.5°	4352.2	3975.4	3055.3	2173.2	1597.7	1291.0	1142.1	1066.1	1031.1	1016.5	1013.6
30°	4454.4	3995.8	2923.8	1951.2	1410.8	1180.0	1069.1	1007.7	984.3	975.6	972.7
32.5°	4606.3	4033.8	2771.9	1746.7	1273.5	1074.9	1010.6	958.1	952.2	943.5	946.4
35°	4854.6	4165.2	2602.5	1571.5	1142.1	1004.8	949.3	914.2	914.2	914.2	923.0
37.5°	5210.9	4349.2	2450.6	1405.0	1057.4	943.5	896.7	885.0	879.2	888.0	893.8
40°	5669.5	4571.2	2328.0	1273.5	984.3	902.6	861.7	855.8	852.9	850.0	855.8
42.5°	6171.9	4854.6	2222.8	1171.3	931.8	858.7	829.5	823.7	812.0	817.9	826.6
45°	6671.4	5205.1	2129.3	1089.5	896.7	835.4	794.5	791.6	785.7	782.8	797.4
47.5°	7226.3	5549.7	2100.1	1039.8	870.4	800.3	771.1	768.2	750.7	747.8	759.4
50°	7658.6	5803.9	2132.3	1016.5	832.5	774.0	753.6	739.0	724.4	709.8	709.8
52.5°	7956.6	5979.1	2155.6	999.0	812.0	739.0	712.7	706.9	692.3	677.7	671.8
55°	8225.3	6084.3	2161.5	1001.9	791.6	698.1	680.6	677.7	668.9	645.5	639.7
57.5°	8315.8	6040.5	2044.6	975.6	779.9	671.8	648.4	654.3	642.6	622.2	619.2
60°	8307.1	5736.7	1778.8	940.5	753.6	642.6	613.4	630.9	630.9	607.6	604.6
62.5°	7801.8	5035.7	1454.6	873.4	724.4	613.4	581.3	607.6	616.3	601.7	598.8
65°	6753.2	4101.0	1215.1	806.2	680.6	581.3	549.1	578.3	592.9	587.1	584.2
67.5°	5587.7	3137.1	1010.6	718.5	625.1	537.4	511.2	531.6	540.4	543.3	546.2
70°	3949.1	2088.5	844.1	622.2	549.1	490.7	461.5	464.4	461.5	470.3	470.3
72.5°	2146.9	1203.4	686.4	528.7	473.2	426.5	406.0	391.4	391.4	388.5	388.5
73°	1837.3	1080.7	654.3	514.1	452.7	414.8	391.4	379.7	379.7	376.8	373.9
75°	1031.1	791.6	560.8	441.1	391.4	362.2	344.7	327.1	324.2	324.2	324.2
77.5°	677.7	616.3	446.9	353.4	315.5	289.2	283.3	265.8	265.8	265.8	262.9
80°	508.2	484.9	344.7	268.7	242.4	222.0	216.1	204.5	201.5	189.9	192.8
82.5°	338.8	382.6	251.2	189.9	163.6	151.9	151.9	149.0	140.2	125.6	125.6
85°	268.7	312.5	181.1	116.8	96.4	81.8	84.7	81.8	78.9	64.3	61.3
87.5°	49.7	125.6	52.6	32.1	23.4	14.6	14.6	8.8	5.8	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)