

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: P480823

Luminaire Tested: **IFLD-S-SA6A-730-U-SL4**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P480823
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-730-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

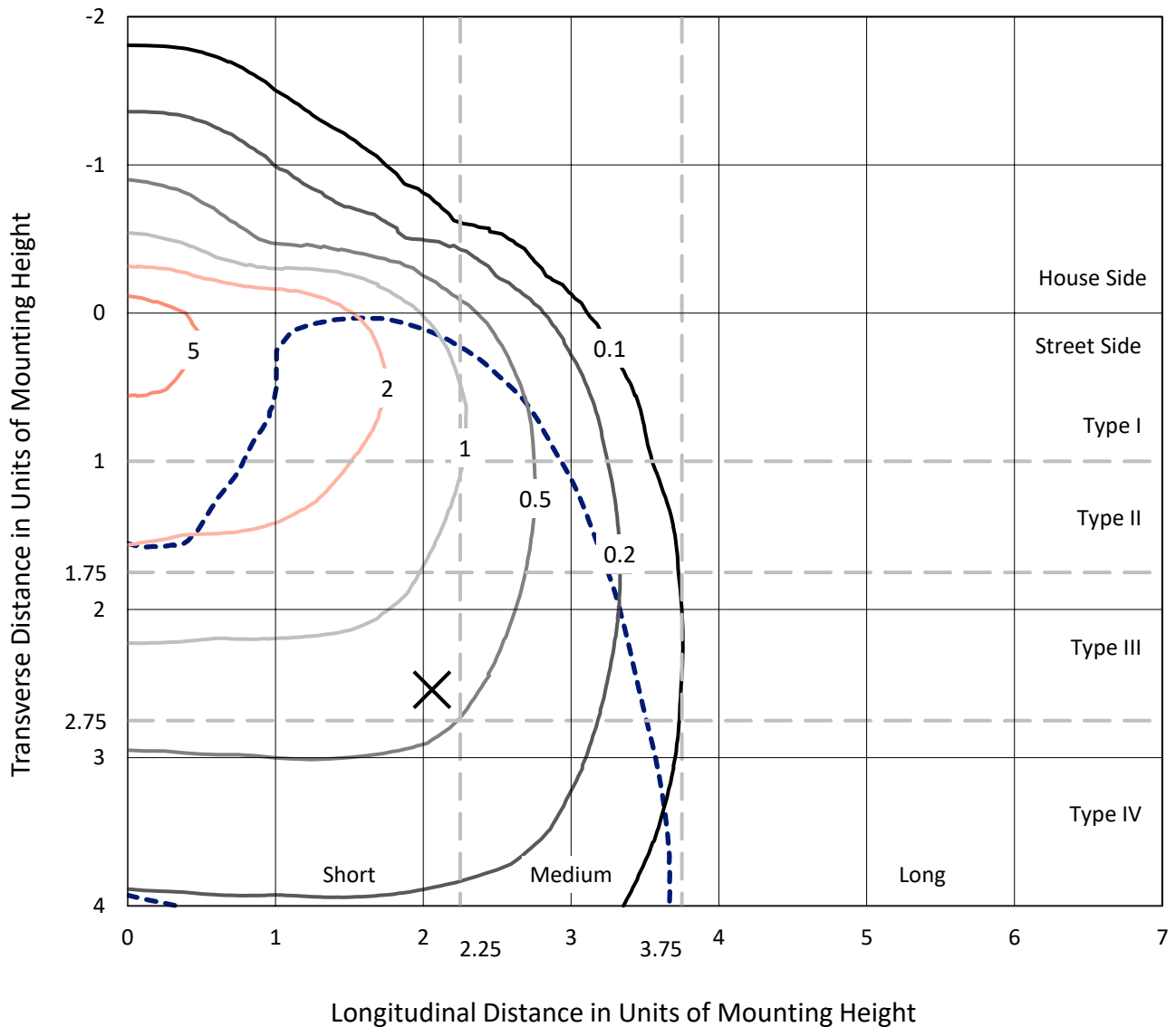
Lumens per Lamp: N/A
Luminaire Lumens: 23772.9 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (A_{in}): 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

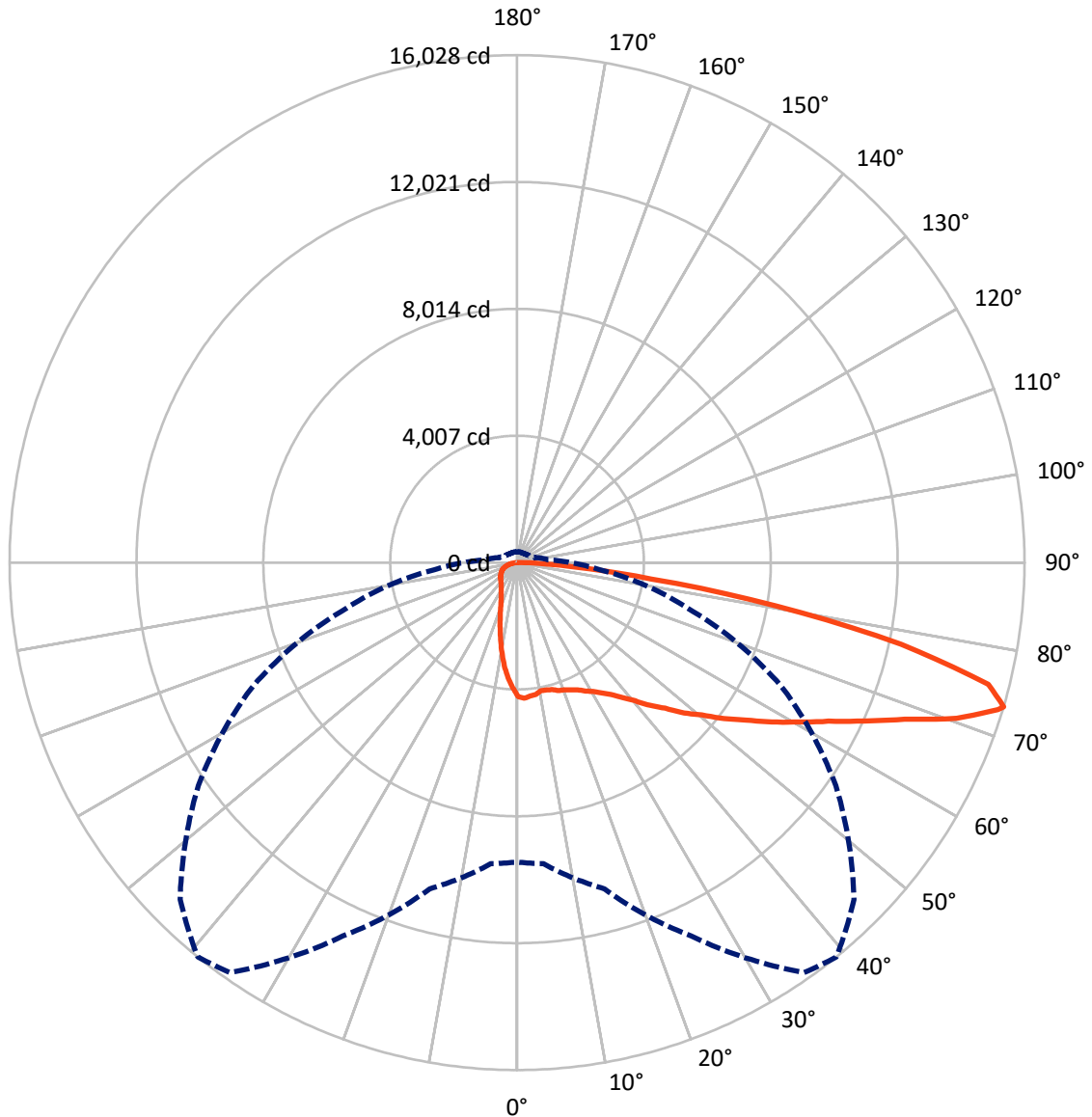
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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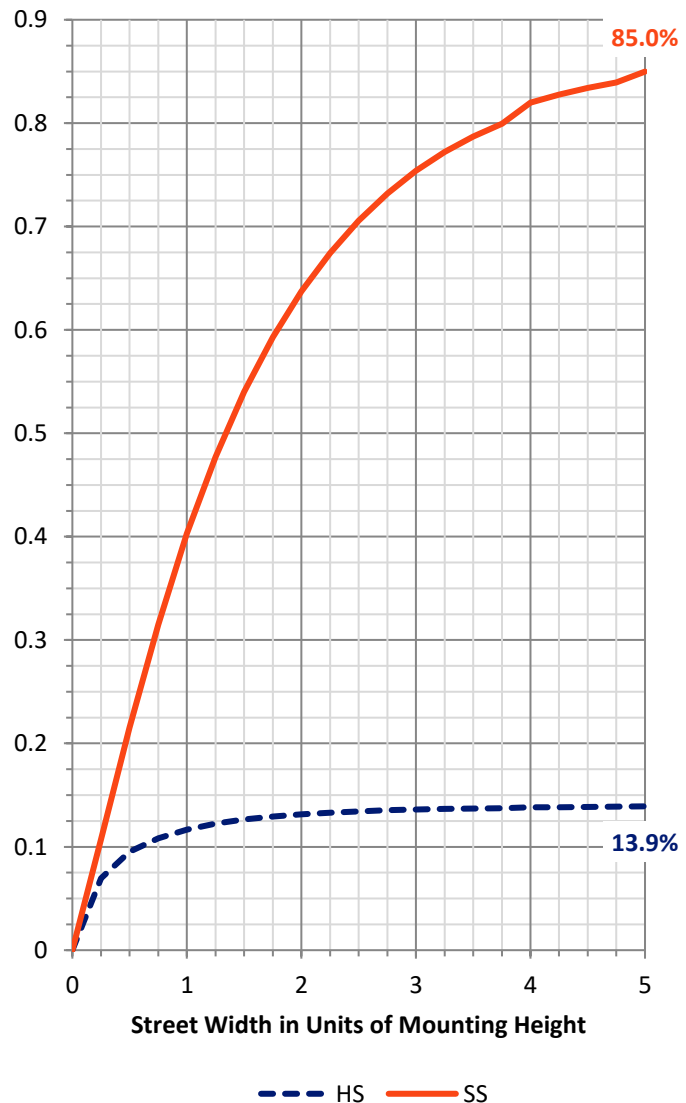
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3341.8	0.0	3341.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	20431.1	0.0	20431.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	23772.9	0.0	23772.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.3	1.5
10°-20°	933.8	3.9
20°-30°	1427.0	6.0
30°-40°	2080.6	8.8
40°-50°	3144.1	13.2
50°-60°	4552.8	19.2
60°-70°	5784.5	24.3
70°-80°	4689.3	19.7
80°-90°	793.4	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°	23772.9	100.0
0°-180°	23772.9	100.0

Coefficient of Utilization



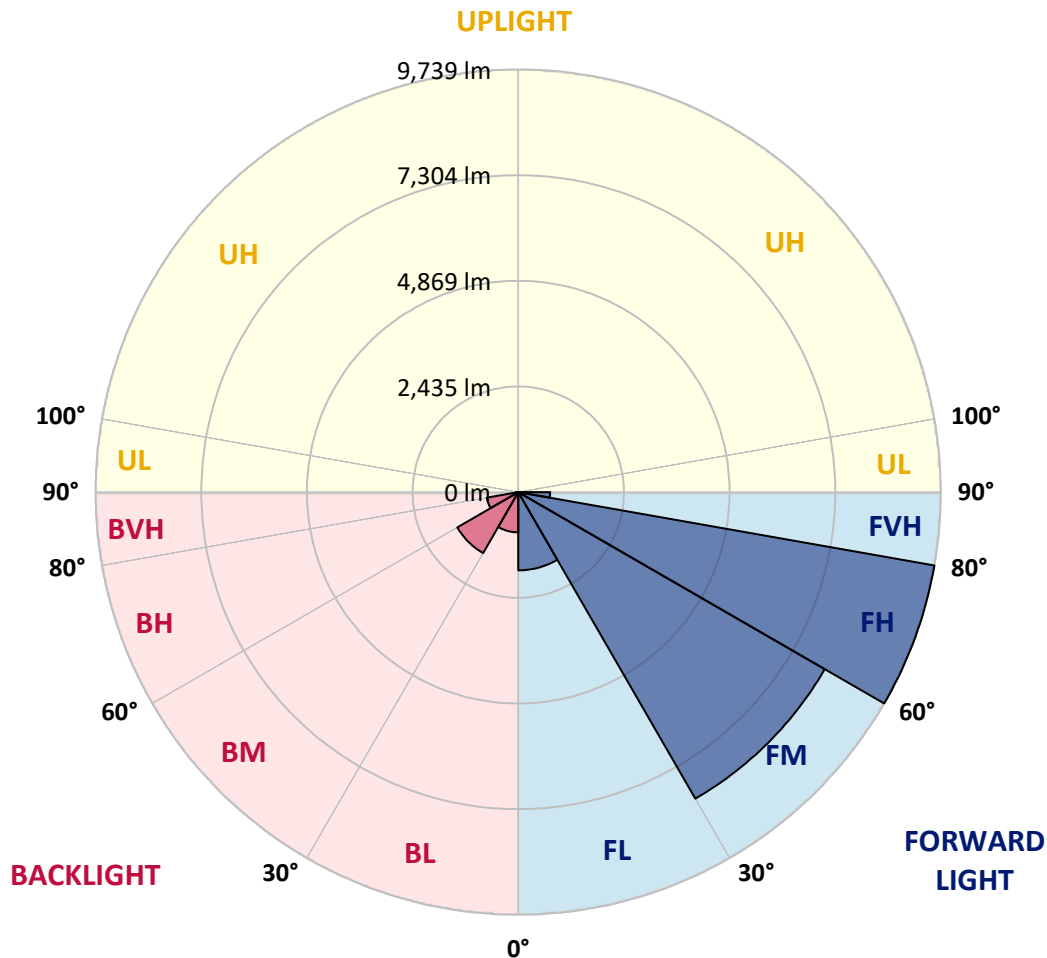
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1801.5	7.6			
FM (30°-60°)	8155.6	34.3			
FH (60°-80°)	9738.8	41.0			G4/12000
FVH (80°-90°)	735.2	3.1			G4/750
BL (0°-30°)	926.8	3.9	B2/1000		
BM (30°-60°)	1621.9	6.8	B2/2500		
BH (60°-80°)	735.0	3.1	B2/1000		G2/1000
BVH (80°-90°)	58.2	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4231.7	4231.7	4231.7	4231.7	4231.7	4231.7	4231.7	4231.7	4231.7	4231.7	4231.7
2.5°	4332.8	4287.6	4295.6	4279.6	4295.6	4290.2	4282.3	4242.4	4282.3	4242.4	4231.7
5°	4274.3	4274.3	4300.9	4261.0	4266.3	4239.7	4266.3	4237.0	4210.4	4143.9	4125.3
7.5°	4255.7	4253.0	4255.7	4199.8	4226.4	4210.4	4183.8	4151.9	4098.7	4056.2	3995.0
10°	4128.0	4154.6	4125.3	4141.3	4162.6	4114.7	4112.0	4104.0	4080.1	4024.3	3987.0
12.5°	4058.8	4104.0	4120.0	4106.7	4125.3	4130.6	4114.7	4104.0	4074.8	4037.6	3931.2
15°	4088.1	4034.9	4080.1	4167.9	4149.3	4162.6	4165.2	4154.6	4141.3	4072.1	4003.0
17.5°	4096.1	4064.2	4159.9	4178.5	4202.5	4250.3	4218.4	4215.8	4165.2	4117.3	4016.3
20°	4114.7	4101.4	4178.5	4276.9	4279.6	4287.6	4303.5	4263.6	4237.0	4154.6	4000.3
22.5°	4183.8	4229.1	4300.9	4343.4	4367.4	4372.7	4372.7	4292.9	4263.6	4197.1	4074.8
25°	4391.3	4343.4	4444.5	4495.0	4460.5	4452.5	4433.9	4362.0	4330.1	4271.6	4109.4
27.5°	4542.9	4540.3	4598.8	4667.9	4574.8	4593.4	4527.0	4505.7	4433.9	4401.9	4170.5
30°	4750.4	4808.9	4806.2	4827.5	4705.2	4726.4	4641.3	4601.4	4561.5	4580.1	4351.4
32.5°	5016.4	4995.1	5029.7	5013.7	4891.3	4910.0	4808.9	4747.7	4761.0	4816.9	4598.8
35°	5186.6	5165.3	5178.6	5178.6	5141.4	5120.1	5077.5	4997.7	5061.6	5165.3	4875.4
37.5°	5370.1	5396.7	5473.8	5457.9	5410.0	5410.0	5404.7	5348.8	5431.3	5686.6	5316.9
40°	5532.4	5604.2	5652.0	5684.0	5739.8	5739.8	5785.0	5753.1	5902.1	6311.7	5856.8
42.5°	5702.6	5705.2	5965.9	5989.8	6114.8	6168.0	6202.6	6229.2	6508.5	6966.0	6434.0
45°	5920.7	5934.0	6162.7	6346.2	6540.4	6559.0	6689.4	6777.1	7120.2	7681.5	7061.7
47.5°	6207.9	6192.0	6436.7	6729.3	6971.3	7099.0	7255.9	7351.6	7774.5	8458.1	7748.0
50°	6585.6	6537.7	6678.7	7138.9	7423.5	7564.4	7843.7	8003.3	8498.0	9200.2	8218.7
52.5°	7045.8	6966.0	7077.7	7580.4	7899.6	8184.2	8450.1	8628.3	9144.3	9774.7	8567.2
55°	7532.5	7367.6	7399.5	8048.5	8508.7	8777.3	9141.7	9327.9	9854.5	10290.7	8915.6
57.5°	8013.9	7910.2	7846.4	8498.0	9234.8	9492.8	9827.9	10069.9	10516.8	10748.2	9210.8
60°	8418.2	8391.6	8287.9	9194.9	10003.4	10224.2	10575.3	10724.3	11062.0	11171.1	9216.2
62.5°	8750.7	8660.3	8825.2	9756.1	10785.4	11035.4	11421.1	11434.4	11673.8	11434.4	8944.9
65°	9011.3	9016.7	9280.0	10434.3	11689.8	12059.5	12370.7	12336.1	12181.8	11277.5	8303.8
67.5°	9248.1	9349.1	9734.8	11179.1	12852.1	13200.5	13546.3	13088.8	12320.1	10543.4	7051.1
70°	9434.3	9535.3	10349.2	12086.1	14221.9	14732.5	14809.7	13386.7	11684.4	8931.6	5319.6
72.5°	9413.0	9596.5	10697.7	12809.5	15437.4	15878.9	15256.5	12548.9	9734.8	6226.6	3104.0
73°	9458.2	9548.6	10668.4	13011.7	15807.1	16027.9	15049.1	12285.5	9181.6	5585.5	2625.2
75°	8585.8	8891.7	10139.1	12681.9	15410.8	15370.9	13857.5	10237.5	6527.1	2933.7	1271.4
77.5°	6351.6	6545.7	7990.0	10429.0	12649.9	12394.6	10453.0	6543.1	3098.6	1087.9	686.2
80°	3104.0	3255.6	4234.4	6021.8	8271.9	8293.2	6487.2	3404.5	1327.2	614.4	468.1
82.5°	1550.7	1641.1	2034.7	2646.5	4069.5	4263.6	3290.2	1936.3	821.9	348.4	266.0
85°	1013.4	1077.2	1252.8	1295.3	1726.2	1822.0	1532.0	1510.8	534.6	188.8	215.4
87.5°	672.9	683.6	768.7	654.3	691.5	664.9	739.4	952.2	156.9	79.8	58.5
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°	4231.7	4231.7	4231.7	4231.7	4231.7	4231.7	4231.7	4231.7	4231.7	4231.7	4231.7
2.5°	4218.4	4181.2	4141.3	4085.4	4045.5	3984.4	3928.5	3904.6	3899.2	3901.9	3875.3
5°	4109.4	4056.2	3976.4	3862.0	3795.5	3694.4	3609.3	3564.1	3516.2	3524.2	3502.9
7.5°	3957.8	3899.2	3776.9	3643.9	3479.0	3335.4	3255.6	3143.9	3080.0	3032.2	3058.8
10°	3909.9	3808.8	3625.3	3441.8	3186.4	2997.6	2814.1	2686.4	2598.6	2513.5	2550.7
12.5°	3885.9	3784.9	3529.5	3258.2	2928.4	2641.2	2383.2	2226.2	2101.2	2026.8	2056.0
15°	3864.7	3739.7	3439.1	3056.1	2686.4	2308.7	2018.8	1811.3	1691.6	1619.8	1627.8
17.5°	3893.9	3715.7	3306.1	2859.3	2420.4	2016.1	1694.3	1478.8	1356.5	1311.3	1300.6
20°	3864.7	3689.1	3175.8	2662.4	2154.4	1736.8	1428.3	1250.1	1165.0	1127.7	1119.8
22.5°	3875.3	3625.3	3040.1	2444.3	1907.1	1502.8	1250.1	1114.4	1048.0	1029.3	1034.7
25°	3925.8	3588.0	2904.5	2205.0	1662.4	1329.9	1135.7	1032.0	984.1	965.5	970.8
27.5°	3963.1	3620.0	2782.1	1978.9	1454.9	1175.6	1040.0	970.8	938.9	925.6	922.9
30°	4056.2	3638.6	2662.4	1776.7	1284.7	1074.6	973.5	917.6	896.3	888.4	885.7
32.5°	4194.5	3673.2	2524.1	1590.6	1159.7	978.8	920.3	872.4	867.1	859.1	861.8
35°	4420.6	3792.9	2369.9	1431.0	1040.0	915.0	864.4	832.5	832.5	832.5	840.5
37.5°	4745.1	3960.4	2231.6	1279.4	962.8	859.1	816.6	805.9	800.6	808.6	813.9
40°	5162.6	4162.6	2119.8	1159.7	896.3	821.9	784.6	779.3	776.7	774.0	779.3
42.5°	5620.1	4420.6	2024.1	1066.6	848.5	782.0	755.4	750.1	739.4	744.7	752.7
45°	6074.9	4739.7	1939.0	992.1	816.6	760.7	723.5	720.8	715.5	712.8	726.1
47.5°	6580.3	5053.6	1912.4	946.9	792.6	728.8	702.2	699.5	683.6	680.9	691.5
50°	6974.0	5285.0	1941.6	925.6	758.0	704.8	686.2	672.9	659.6	646.3	646.3
52.5°	7245.3	5444.6	1962.9	909.6	739.4	672.9	649.0	643.7	630.4	617.1	611.8
55°	7490.0	5540.3	1968.2	912.3	720.8	635.7	619.7	617.1	609.1	587.8	582.5
57.5°	7572.4	5500.4	1861.8	888.4	710.2	611.8	590.5	595.8	585.2	566.5	563.9
60°	7564.4	5223.8	1619.8	856.5	686.2	585.2	558.6	574.5	574.5	553.2	550.6
62.5°	7104.3	4585.5	1324.6	795.3	659.6	558.6	529.3	553.2	561.2	547.9	545.3
65°	6149.4	3734.3	1106.5	734.1	619.7	529.3	500.0	526.6	539.9	534.6	532.0
67.5°	5088.2	2856.6	920.3	654.3	569.2	489.4	465.5	484.1	492.1	494.7	497.4
70°	3596.0	1901.7	768.7	566.5	500.0	446.8	420.2	422.9	420.2	428.2	428.2
72.5°	1954.9	1095.8	625.0	481.4	430.9	388.3	369.7	356.4	356.4	353.8	353.8
73°	1673.0	984.1	595.8	468.1	412.3	377.7	356.4	345.8	345.8	343.1	340.5
75°	938.9	720.8	510.7	401.6	356.4	329.8	313.9	297.9	295.2	295.2	295.2
77.5°	617.1	561.2	406.9	321.8	287.3	263.3	258.0	242.0	242.0	242.0	239.4
80°	462.8	441.5	313.9	244.7	220.8	202.1	196.8	186.2	183.5	172.9	175.5
82.5°	308.5	348.4	228.7	172.9	148.9	138.3	138.3	135.6	127.7	114.4	114.4
85°	244.7	284.6	164.9	106.4	87.8	74.5	77.1	74.5	71.8	58.5	55.9
87.5°	45.2	114.4	47.9	29.3	21.3	13.3	13.3	8.0	5.3	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)