

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: P480284

Luminaire Tested: **IFLD-M-SA4C-830-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480284
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-830-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

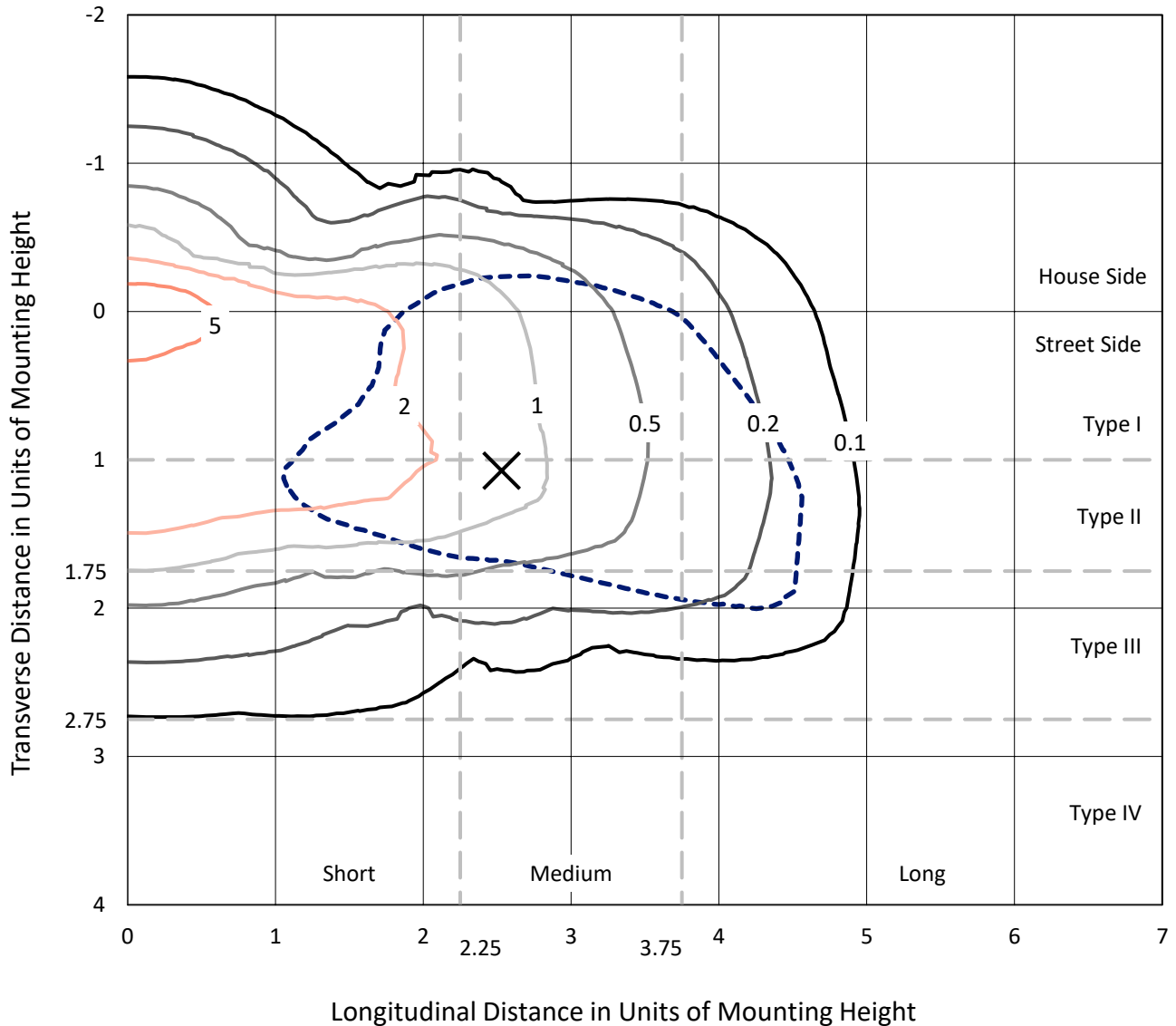
Lumens per Lamp: N/A
Luminaire Lumens: 22525.3 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

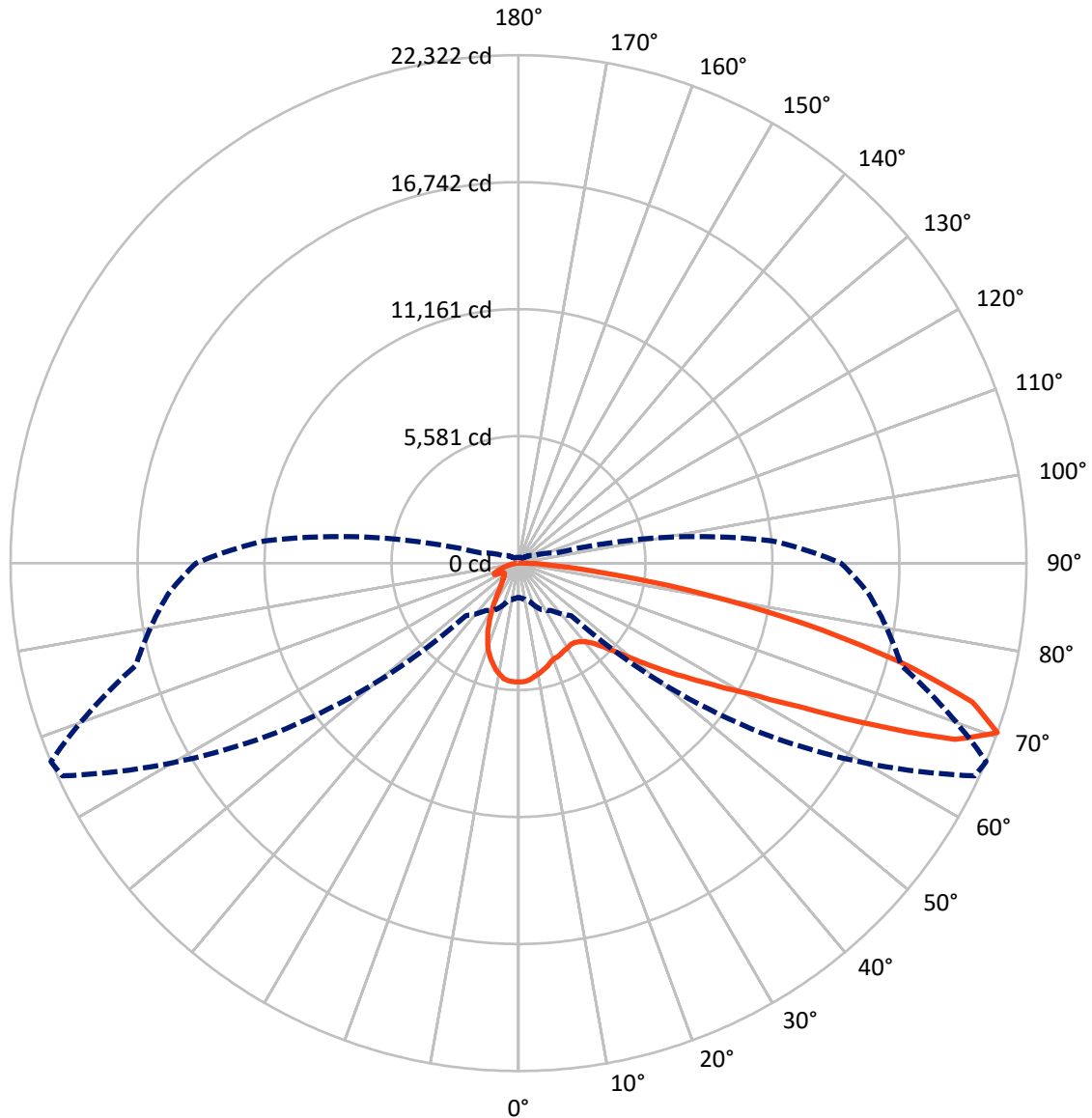
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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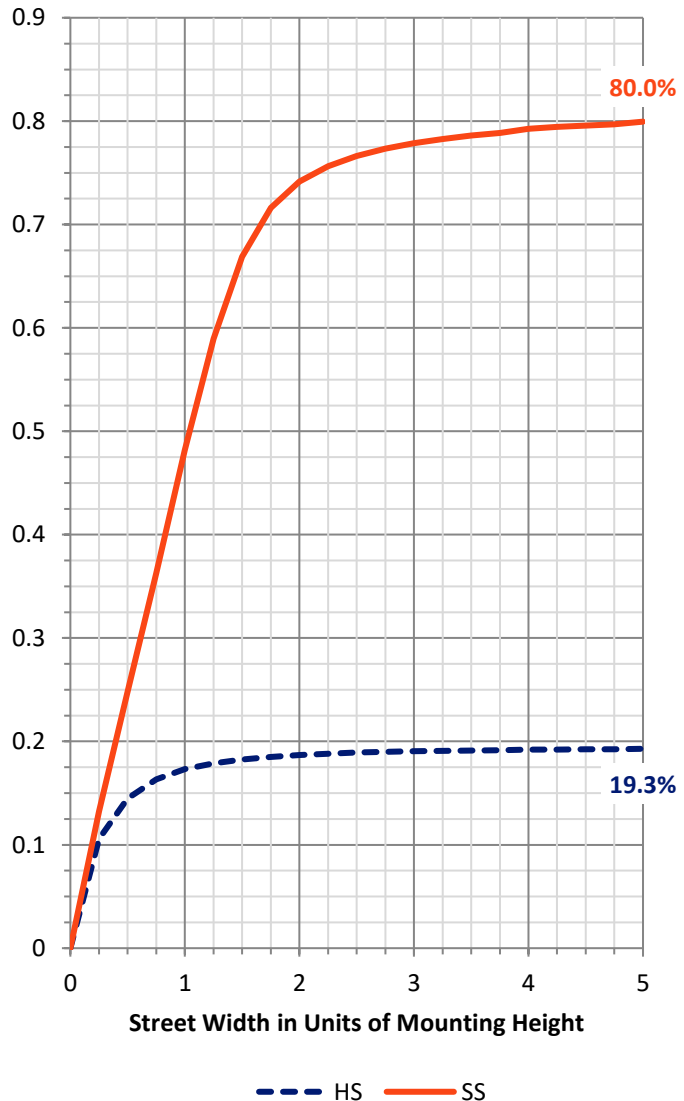
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4387.0	0.0	4387.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	18138.3	0.0	18138.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	22525.3	0.0	22525.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.0	2.0
10°-20°	1089.7	4.8
20°-30°	1471.5	6.5
30°-40°	1969.0	8.7
40°-50°	2895.4	12.9
50°-60°	4513.2	20.0
60°-70°	5559.5	24.7
70°-80°	3928.3	17.4
80°-90°	643.9	2.9
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°	22525.3	100.0
0°-180°	22525.3	100.0

Coefficient of Utilization



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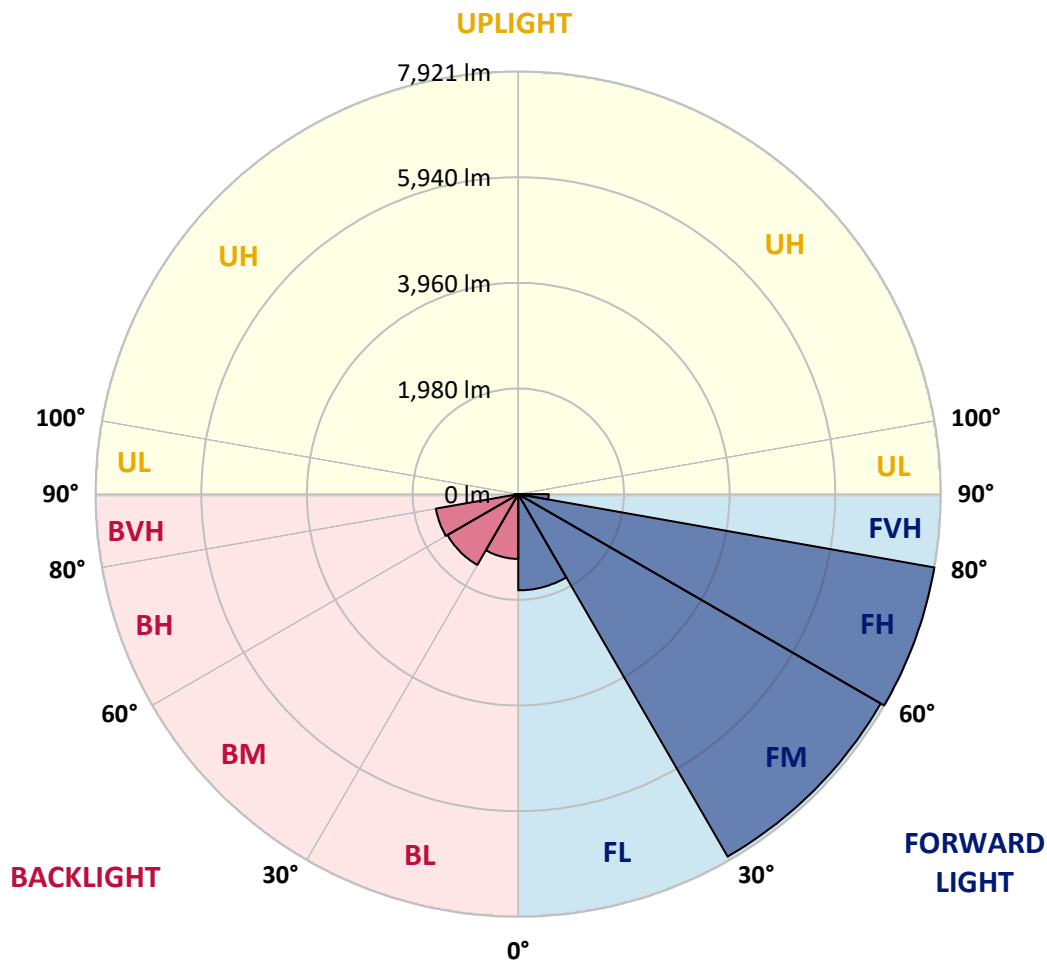
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1803.0	8.0			
FM (30°-60°)	7845.1	34.8			
FH (60°-80°)	7920.7	35.2			G4/12000
FVH (80°-90°)	569.6	2.5			G4/750
BL (0°-30°)	1213.2	5.4	B3/2500		
BM (30°-60°)	1532.5	6.8	B2/2500		
BH (60°-80°)	1567.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	74.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5214.5	5214.5	5214.5	5214.5	5214.5	5214.5	5214.5	5214.5	5214.5	5214.5	5214.5
2.5°	4855.4	4910.3	4930.3	4960.2	5037.5	5094.8	5129.8	5169.7	5217.0	5256.9	5281.9
5°	4516.3	4546.2	4593.6	4626.0	4723.3	4877.9	4982.6	5152.2	5147.2	5209.6	5304.3
7.5°	4187.1	4217.0	4239.5	4304.3	4444.0	4583.6	4775.6	5050.0	5030.0	5174.6	5321.8
10°	3982.6	3960.2	3967.6	4077.4	4187.1	4344.2	4586.1	4865.4	4937.7	5162.2	5371.7
12.5°	3790.6	3765.6	3825.5	3895.3	4030.0	4172.1	4461.4	4713.3	4823.0	5117.3	5394.1
15°	3670.9	3653.4	3728.2	3758.2	3917.8	4087.3	4291.8	4598.6	4718.3	5062.4	5359.2
17.5°	3603.5	3618.5	3645.9	3710.8	3813.0	3957.7	4182.1	4521.3	4573.6	4995.1	5351.7
20°	3616.0	3633.5	3636.0	3663.4	3733.2	3845.4	4074.9	4439.0	4473.9	4982.6	5371.7
22.5°	3715.8	3690.8	3700.8	3683.3	3703.3	3790.6	3992.6	4329.2	4463.9	4877.9	5329.3
25°	3865.4	3830.5	3825.5	3765.6	3728.2	3753.2	3977.6	4301.8	4389.1	4845.5	5326.8
27.5°	4129.7	4077.4	4077.4	3987.6	3835.5	3795.6	3935.2	4256.9	4334.2	4815.5	5269.4
30°	4384.1	4384.1	4386.6	4259.4	4089.8	3892.8	3952.7	4239.5	4289.3	4725.8	5192.1
32.5°	4693.3	4685.9	4673.4	4611.0	4349.2	4054.9	4037.5	4217.0	4242.0	4695.8	5169.7
35°	4995.1	4975.1	5072.4	5017.5	4750.7	4371.6	4124.8	4227.0	4281.9	4650.9	5099.8
37.5°	5222.0	5234.5	5436.5	5471.4	5242.0	4730.7	4371.6	4326.8	4379.1	4715.8	5099.8
40°	5516.3	5566.2	5755.7	5872.9	5733.3	5204.6	4763.2	4493.8	4531.2	4860.4	5209.6
42.5°	5902.8	5945.2	6187.1	6339.3	6299.4	5808.1	5149.7	4843.0	4813.0	5102.3	5374.1
45°	6414.1	6421.5	6665.9	6875.4	6957.7	6439.0	5763.2	5284.4	5259.4	5518.8	5675.9
47.5°	7022.6	7015.1	7167.2	7391.6	7613.6	7192.1	6468.9	5955.2	5865.4	6114.8	6177.2
50°	7611.1	7578.7	7613.6	7900.4	8326.8	8134.8	7326.8	6775.7	6685.9	6823.1	6930.3
52.5°	7935.3	7975.2	7880.4	8259.5	9084.9	9249.5	8464.0	7755.7	7678.4	7745.8	7932.8
55°	7708.4	7790.6	7728.3	8087.4	9416.6	10608.6	9935.3	8890.4	8790.7	8765.7	9072.5
57.5°	6743.2	6892.9	6905.3	7473.9	9301.9	11661.0	12005.2	10229.6	10080.0	9825.6	10142.3
60°	5177.1	5326.8	5441.5	6114.8	8319.3	12289.5	14404.2	12134.9	11641.1	10982.7	11172.2
62.5°	3628.5	3730.7	3845.4	4259.4	6414.1	11920.4	16479.1	14818.2	13908.0	12202.2	12439.1
65°	2643.4	2723.2	2840.4	3084.8	3940.2	9863.0	17441.7	18005.3	17142.4	13753.3	13723.4
67.5°	1990.1	2039.9	2194.5	2586.1	2730.7	6092.4	16444.2	21371.9	20673.6	15476.6	14755.8
70°	1506.3	1548.7	1693.3	2229.5	2551.2	3266.9	12972.8	22122.5	22322.0	17409.3	15449.1
72.5°	1037.4	1084.8	1246.9	1857.9	2429.0	2591.1	8142.3	20097.6	20853.2	18204.8	14706.0
75°	635.9	668.3	763.1	1409.0	2411.5	2533.7	4481.4	16469.1	17269.6	16820.7	12865.5
77.5°	448.9	446.4	463.8	825.4	2089.8	2548.7	2763.1	12067.5	12845.6	12396.7	8730.8
80°	326.7	329.2	346.6	493.8	1419.0	2591.1	2177.1	8082.4	8314.3	6463.9	3443.9
82.5°	197.0	207.0	249.4	334.2	852.9	2339.2	2012.5	4491.3	4202.1	2074.8	947.6
85°	104.7	104.7	147.1	212.0	453.9	1745.7	1937.7	2137.2	1790.6	643.4	351.6
87.5°	24.9	24.9	42.4	84.8	182.0	835.4	1321.7	850.4	680.8	217.0	144.6
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°	5214.5	5214.5	5214.5	5214.5	5214.5	5214.5	5214.5	5214.5	5214.5	5214.5	5214.5
2.5°	5271.9	5242.0	5279.4	5204.6	5144.7	5147.2	5054.9	5050.0	5037.5	4972.6	4995.1
5°	5331.8	5306.8	5264.4	5182.1	5050.0	4917.8	4838.0	4735.7	4693.3	4670.9	4680.9
7.5°	5389.1	5344.2	5222.0	5107.3	4902.8	4653.4	4508.8	4371.6	4197.1	4177.1	4142.2
10°	5404.1	5309.3	5152.2	4907.8	4636.0	4359.2	4030.0	3775.6	3641.0	3536.2	3496.3
12.5°	5381.6	5341.7	5040.0	4725.8	4314.3	3880.4	3496.3	3137.2	2887.8	2758.1	2723.2
15°	5379.1	5309.3	4915.3	4448.9	3922.8	3356.7	2810.5	2379.1	2117.2	2010.0	2010.0
17.5°	5381.6	5214.5	4768.2	4169.6	3461.4	2695.8	2094.8	1740.7	1596.0	1581.1	1593.5
20°	5331.8	5144.7	4613.5	3840.5	2882.8	2025.0	1521.2	1376.6	1376.6	1396.5	1404.0
22.5°	5286.9	5040.0	4369.1	3434.0	2294.3	1466.4	1236.9	1194.5	1241.9	1276.8	1291.8
25°	5224.5	4952.7	4119.8	3012.5	1745.7	1182.1	1074.8	1084.8	1129.7	1192.0	1187.1
27.5°	5134.7	4800.6	3823.0	2523.7	1299.3	1020.0	992.5	997.5	1044.9	1072.3	1067.3
30°	5032.5	4646.0	3548.7	2037.4	1029.9	935.2	932.7	945.2	952.6	967.6	965.1
32.5°	4902.8	4441.5	3256.9	1583.6	927.7	887.8	877.8	870.3	877.8	875.3	867.8
35°	4810.5	4331.7	2960.1	1207.0	870.3	845.4	837.9	825.4	815.5	800.5	798.0
37.5°	4785.6	4222.0	2648.4	985.1	825.4	813.0	788.0	765.6	753.1	745.6	740.7
40°	4770.6	4149.7	2344.2	865.4	788.0	775.6	745.6	715.7	703.3	695.8	698.3
42.5°	4823.0	4109.8	2034.9	805.5	755.6	733.2	700.8	665.8	663.4	658.4	665.8
45°	5007.6	4159.7	1748.2	763.1	723.2	685.8	643.4	625.9	623.5	618.5	623.5
47.5°	5426.5	4284.4	1503.8	735.7	688.3	655.9	611.0	586.0	583.6	581.1	581.1
50°	6005.1	4668.4	1299.3	703.3	665.8	621.0	578.6	551.1	546.1	536.2	536.2
52.5°	6912.8	5314.3	1177.1	685.8	625.9	588.5	543.6	513.7	501.3	491.3	491.3
55°	7935.3	6114.8	1154.6	655.9	583.6	548.6	508.7	478.8	466.3	453.9	448.9
57.5°	9099.9	7174.7	1314.2	635.9	553.6	508.7	463.8	436.4	426.4	414.0	409.0
60°	10184.7	8232.1	1810.5	606.0	526.2	471.3	426.4	399.0	386.5	374.1	374.1
62.5°	11439.1	9541.3	2650.9	606.0	501.3	431.4	386.5	366.6	359.1	346.6	344.1
65°	12922.9	10895.4	3264.4	643.4	493.8	396.5	349.1	329.2	321.7	314.2	311.7
67.5°	14052.6	11673.5	2808.0	743.2	526.2	366.6	311.7	299.3	294.3	286.8	281.8
70°	14172.3	11199.7	1693.3	803.0	558.6	336.7	279.3	266.8	266.8	259.4	254.4
72.5°	13097.5	9937.8	1139.7	715.7	506.2	301.8	246.9	236.9	231.9	226.9	224.4
75°	10960.3	8429.1	900.3	571.1	389.0	249.4	214.5	204.5	197.0	194.5	189.5
77.5°	7361.7	5478.9	665.8	446.4	286.8	202.0	179.6	169.6	162.1	159.6	152.1
80°	2828.0	2087.3	428.9	324.2	202.0	159.6	142.1	132.2	127.2	119.7	114.7
82.5°	832.9	675.8	239.4	199.5	129.7	109.7	102.2	94.8	87.3	79.8	77.3
85°	344.1	309.2	147.1	104.7	79.8	64.8	59.9	52.4	44.9	39.9	34.9
87.5°	159.6	132.2	67.3	39.9	27.4	15.0	7.5	2.5	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)