

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: P479954

Luminaire Tested: **IFLD-S-SA3E-722-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479954
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-722-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

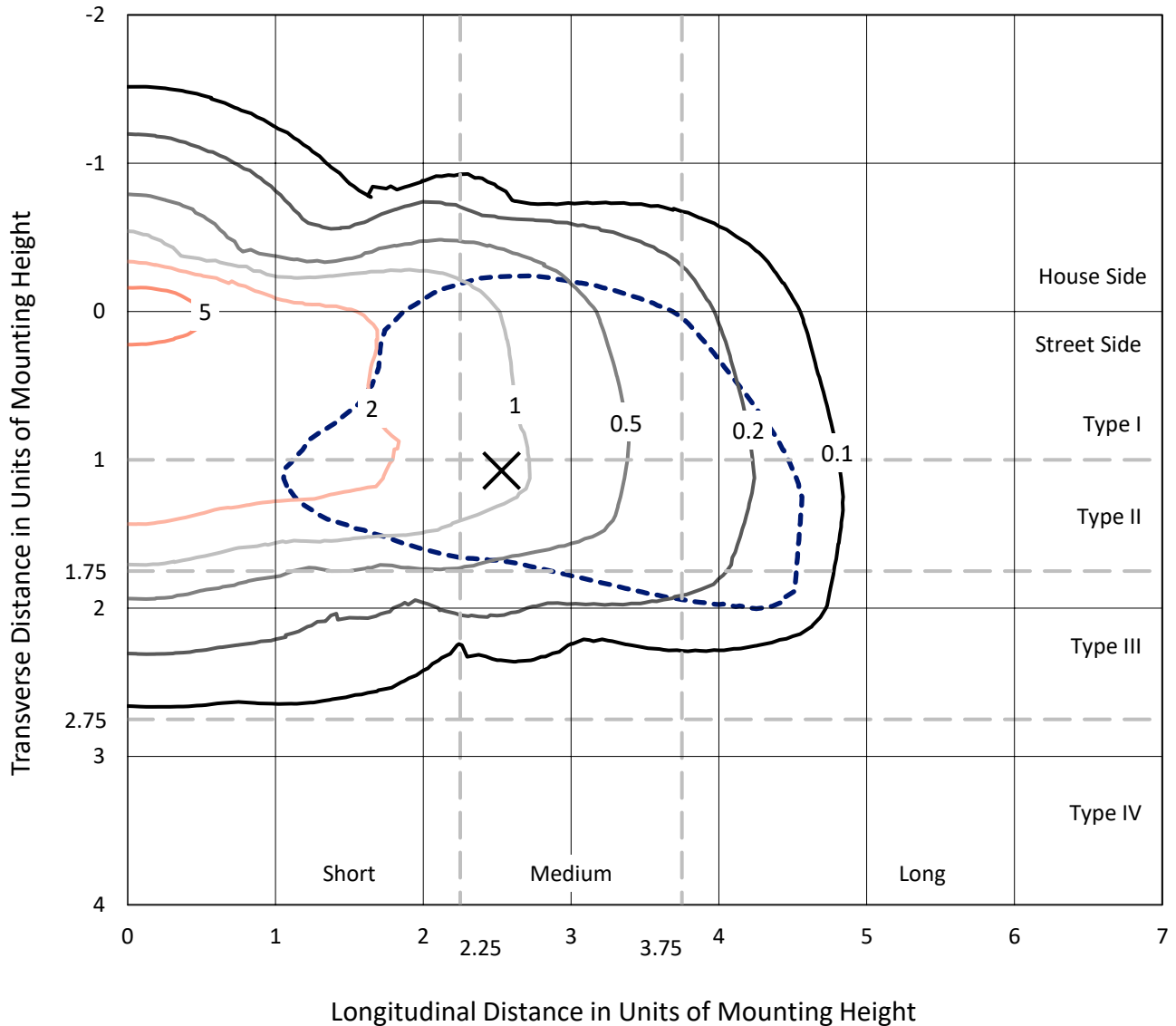
Lumens per Lamp: N/A
Luminaire Lumens: 19810.1 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1
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

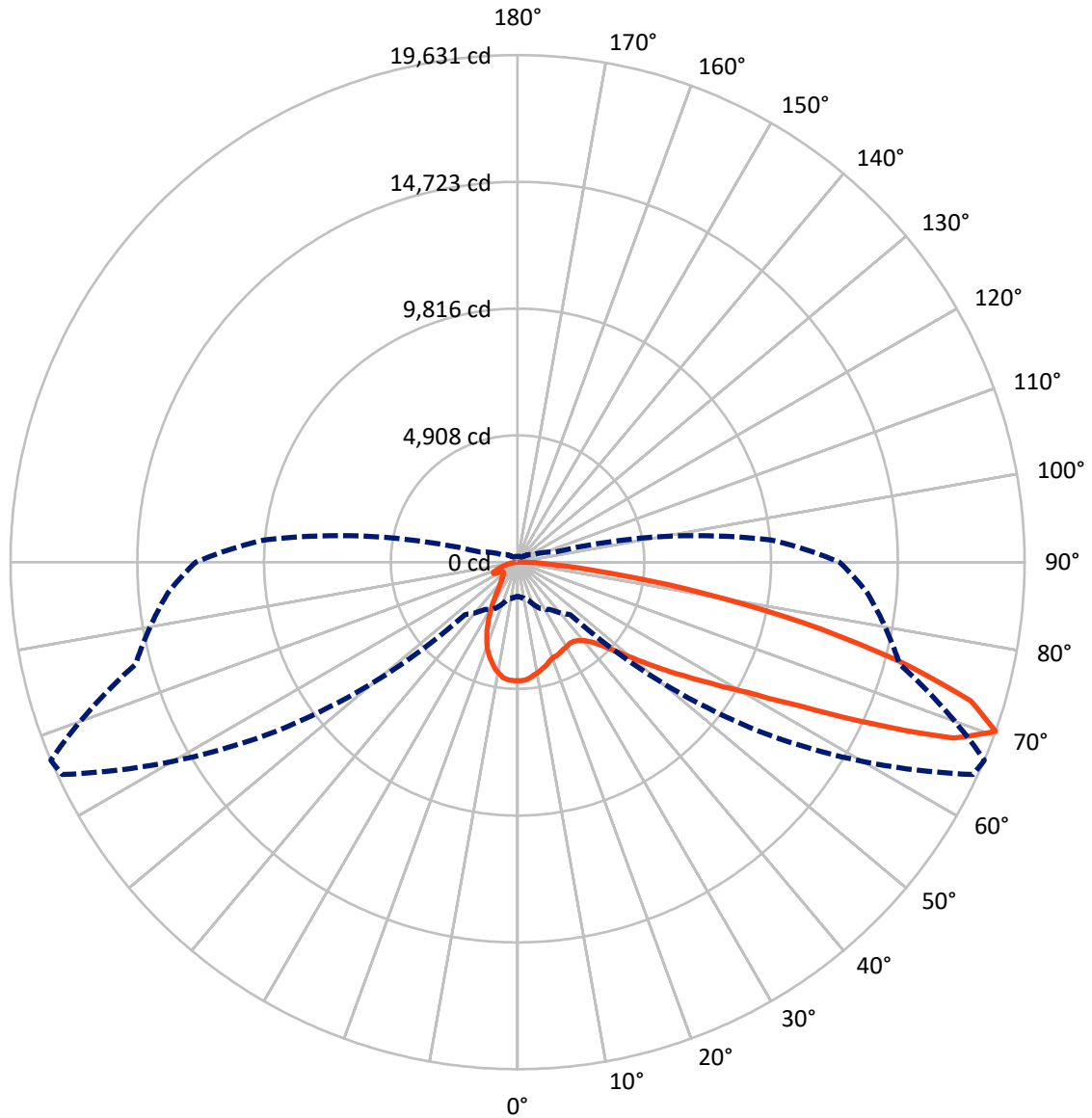
✕ Max cd
 - - - 1/2 Max cd



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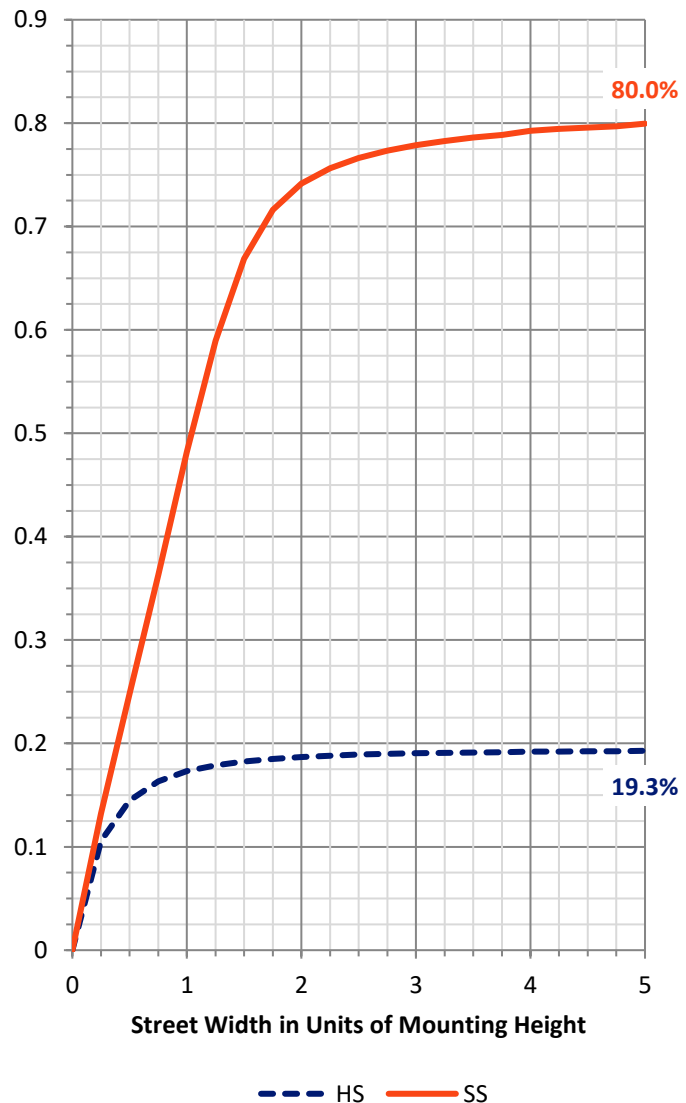
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3858.2	0.0	3858.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	15951.9	0.0	15951.9
	% Fixture	80.5	0.0	80.5
Total	Lumens	19810.1	0.0	19810.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.1	2.0
10°-20°	958.3	4.8
20°-30°	1294.1	6.5
30°-40°	1731.7	8.7
40°-50°	2546.4	12.9
50°-60°	3969.2	20.0
60°-70°	4889.3	24.7
70°-80°	3454.8	17.4
80°-90°	566.3	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°	19810.1	100.0
0°-180°	19810.1	100.0

Coefficient of Utilization



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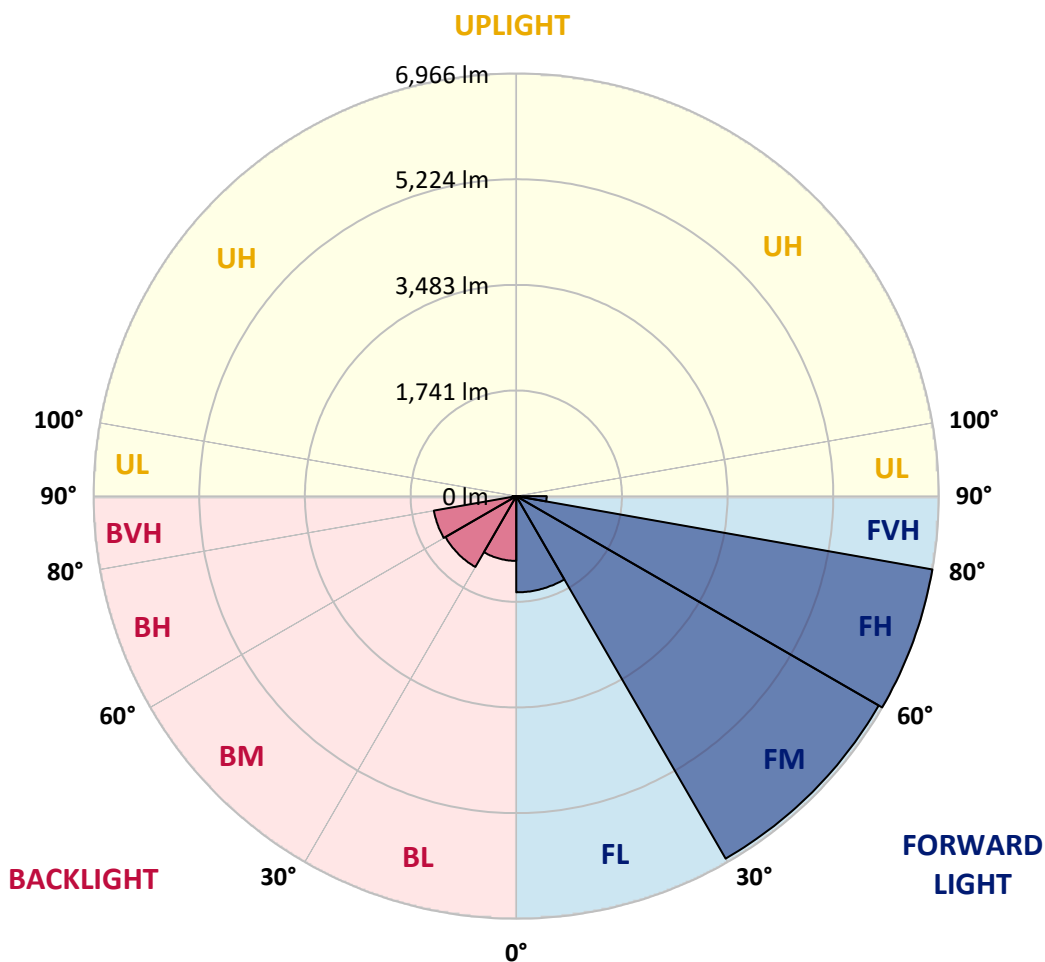
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1585.7	8.0			
FM (30°-60°)	6899.4	34.8			
FH (60°-80°)	6965.9	35.2			G3/7500
FVH (80°-90°)	500.9	2.5			G4/750
BL (0°-30°)	1066.9	5.4	B3/2500		
BM (30°-60°)	1347.8	6.8	B2/2500		
BH (60°-80°)	1378.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	65.3	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°	4586.0	4586.0	4586.0	4586.0	4586.0	4586.0	4586.0	4586.0	4586.0	4586.0	4586.0
2.5°	4270.2	4318.4	4336.0	4362.3	4430.3	4480.7	4511.4	4546.5	4588.2	4623.3	4645.2
5°	3971.9	3998.2	4039.9	4068.4	4153.9	4289.9	4382.0	4531.1	4526.8	4581.6	4664.9
7.5°	3682.4	3708.7	3728.4	3785.5	3908.3	4031.1	4200.0	4441.2	4423.7	4550.9	4680.3
10°	3502.5	3482.8	3489.4	3585.9	3682.4	3820.6	4033.3	4278.9	4342.5	4539.9	4724.1
12.5°	3333.7	3311.7	3364.4	3425.8	3544.2	3669.2	3923.6	4145.1	4241.6	4500.4	4743.9
15°	3228.4	3213.0	3278.8	3305.2	3445.5	3594.7	3774.5	4044.3	4149.5	4452.2	4713.2
17.5°	3169.2	3182.3	3206.5	3263.5	3353.4	3480.6	3678.0	3976.3	4022.3	4393.0	4706.6
20°	3180.1	3195.5	3197.7	3221.8	3283.2	3381.9	3583.7	3903.9	3934.6	4382.0	4724.1
22.5°	3267.9	3245.9	3254.7	3239.4	3256.9	3333.7	3511.3	3807.4	3925.8	4289.9	4686.9
25°	3399.5	3368.8	3364.4	3311.7	3278.8	3300.8	3498.2	3783.3	3860.0	4261.4	4684.7
27.5°	3631.9	3585.9	3585.9	3506.9	3373.1	3338.0	3460.9	3743.8	3811.8	4235.1	4634.2
30°	3855.6	3855.6	3857.8	3746.0	3596.8	3423.6	3476.2	3728.4	3772.3	4156.1	4566.2
32.5°	4127.6	4121.0	4110.1	4055.2	3824.9	3566.1	3550.8	3708.7	3730.6	4129.8	4546.5
35°	4393.0	4375.4	4461.0	4412.7	4178.0	3844.7	3627.6	3717.5	3765.7	4090.3	4485.1
37.5°	4592.6	4603.5	4781.2	4811.9	4610.1	4160.5	3844.7	3805.2	3851.3	4147.3	4485.1
40°	4851.4	4895.2	5061.9	5165.0	5042.2	4577.2	4189.0	3952.1	3985.0	4274.5	4581.6
42.5°	5191.3	5228.6	5441.3	5575.1	5540.0	5108.0	4529.0	4259.2	4232.9	4487.3	4726.3
45°	5640.9	5647.5	5862.4	6046.6	6119.0	5662.8	5068.5	4647.4	4625.5	4853.5	4991.7
47.5°	6176.0	6169.5	6303.3	6500.6	6695.8	6325.2	5689.2	5237.4	5158.4	5377.7	5432.6
50°	6693.6	6665.1	6695.8	6948.1	7323.1	7154.2	6443.6	5958.9	5880.0	6000.6	6094.9
52.5°	6978.8	7013.8	6930.5	7263.9	7989.8	8134.6	7443.7	6820.8	6752.9	6812.1	6976.6
55°	6779.2	6851.6	6796.7	7112.5	8281.5	9329.9	8737.7	7818.8	7731.0	7709.1	7978.9
57.5°	5930.4	6062.0	6073.0	6573.0	8180.6	10255.4	10558.1	8996.5	8864.9	8641.2	8919.7
60°	4553.1	4684.7	4785.6	5377.7	7316.5	10808.1	12667.9	10672.1	10237.9	9658.8	9825.5
62.5°	3191.1	3281.0	3381.9	3746.0	5640.9	10483.5	14492.7	13032.0	12231.5	10731.3	10939.7
65°	2324.8	2395.0	2498.1	2713.0	3465.3	8674.1	15339.2	15834.9	15076.0	12095.5	12069.2
67.5°	1750.2	1794.0	1930.0	2274.3	2401.6	5358.0	14462.0	18795.7	18181.6	13611.0	12977.2
70°	1324.7	1362.0	1489.2	1960.7	2243.6	2873.1	11409.0	19455.9	19631.3	15310.7	13586.9
72.5°	912.4	954.0	1096.6	1633.9	2136.2	2278.7	7160.8	17675.0	18339.5	16010.3	12933.3
75°	559.3	587.8	671.1	1239.2	2120.8	2228.3	3941.2	14483.9	15187.9	14793.1	11314.7
77.5°	394.8	392.6	407.9	725.9	1837.9	2241.4	2430.1	10612.9	11297.2	10902.4	7678.4
80°	287.3	289.5	304.9	434.3	1247.9	2278.7	1914.7	7108.2	7312.1	5684.8	3028.8
82.5°	173.3	182.0	219.3	293.9	750.1	2057.2	1769.9	3950.0	3695.5	1824.7	833.4
85°	92.1	92.1	129.4	186.4	399.2	1535.2	1704.1	1879.6	1574.7	565.8	309.2
87.5°	21.9	21.9	37.3	74.6	160.1	734.7	1162.4	747.9	598.7	190.8	127.2
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°	4586.0	4586.0	4586.0	4586.0	4586.0	4586.0	4586.0	4586.0	4586.0	4586.0	4586.0
2.5°	4636.4	4610.1	4643.0	4577.2	4524.6	4526.8	4445.6	4441.2	4430.3	4373.2	4393.0
5°	4689.1	4667.1	4629.8	4557.5	4441.2	4325.0	4254.8	4164.9	4127.6	4107.9	4116.6
7.5°	4739.5	4700.0	4592.6	4491.7	4311.8	4092.5	3965.3	3844.7	3691.2	3673.6	3642.9
10°	4752.7	4669.3	4531.1	4316.2	4077.2	3833.7	3544.2	3320.5	3202.1	3110.0	3074.9
12.5°	4732.9	4697.8	4432.5	4156.1	3794.2	3412.6	3074.9	2759.0	2539.7	2425.7	2395.0
15°	4730.7	4669.3	4322.8	3912.7	3449.9	2952.0	2471.7	2092.3	1862.0	1767.7	1767.7
17.5°	4732.9	4586.0	4193.4	3667.0	3044.2	2370.8	1842.3	1530.9	1403.6	1390.5	1401.5
20°	4689.1	4524.6	4057.4	3377.5	2535.3	1780.9	1337.9	1210.6	1210.6	1228.2	1234.8
22.5°	4649.6	4432.5	3842.5	3020.0	2017.7	1289.6	1087.8	1050.5	1092.2	1122.9	1136.1
25°	4594.8	4355.7	3623.2	2649.4	1535.2	1039.6	945.3	954.0	993.5	1048.3	1044.0
27.5°	4515.8	4221.9	3362.2	2219.5	1142.7	897.0	872.9	877.3	919.0	943.1	938.7
30°	4425.9	4085.9	3120.9	1791.8	905.8	822.4	820.3	831.2	837.8	851.0	848.8
32.5°	4311.8	3906.1	2864.3	1392.7	815.9	780.8	772.0	765.4	772.0	769.8	763.2
35°	4230.7	3809.6	2603.3	1061.5	765.4	743.5	736.9	725.9	717.2	704.0	701.8
37.5°	4208.7	3713.1	2329.2	866.3	725.9	715.0	693.1	673.3	662.3	655.8	651.4
40°	4195.6	3649.5	2061.6	761.0	693.1	682.1	655.8	629.4	618.5	611.9	614.1
42.5°	4241.6	3614.4	1789.6	708.4	664.5	644.8	616.3	585.6	583.4	579.0	585.6
45°	4403.9	3658.3	1537.4	671.1	636.0	603.1	565.8	550.5	548.3	543.9	548.3
47.5°	4772.4	3767.9	1322.5	647.0	605.3	576.8	537.3	515.4	513.2	511.0	511.0
50°	5281.2	4105.7	1142.7	618.5	585.6	546.1	508.8	484.7	480.3	471.5	471.5
52.5°	6079.5	4673.7	1035.2	603.1	550.5	517.6	478.1	451.8	440.8	432.1	432.1
55°	6978.8	5377.7	1015.5	576.8	513.2	482.5	447.4	421.1	410.1	399.2	394.8
57.5°	8003.0	6309.8	1155.8	559.3	486.9	447.4	407.9	383.8	375.0	364.1	359.7
60°	8957.0	7239.7	1592.3	532.9	462.8	414.5	375.0	350.9	339.9	329.0	329.0
62.5°	10060.2	8391.2	2331.4	532.9	440.8	379.4	339.9	322.4	315.8	304.9	302.7
65°	11365.2	9582.1	2870.9	565.8	434.3	348.7	307.0	289.5	282.9	276.3	274.1
67.5°	12358.7	10266.4	2469.5	653.6	462.8	322.4	274.1	263.2	258.8	252.2	247.8
70°	12463.9	9849.7	1489.2	706.2	491.3	296.1	245.6	234.7	234.7	228.1	223.7
72.5°	11518.7	8739.9	1002.3	629.4	445.2	265.4	217.1	208.4	204.0	199.6	197.4
75°	9639.1	7413.0	791.7	502.2	342.1	219.3	188.6	179.8	173.3	171.1	166.7
77.5°	6474.3	4818.5	585.6	392.6	252.2	177.6	157.9	149.1	142.6	140.4	133.8
80°	2487.1	1835.7	377.2	285.1	177.6	140.4	125.0	116.2	111.9	105.3	100.9
82.5°	732.5	594.4	210.5	175.5	114.0	96.5	89.9	83.3	76.8	70.2	68.0
85°	302.7	272.0	129.4	92.1	70.2	57.0	52.6	46.1	39.5	35.1	30.7
87.5°	140.4	116.2	59.2	35.1	24.1	13.2	6.6	2.2	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)