

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: P478455

Luminaire Tested: **IFLD-L-SA7B-727-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478455
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-727-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

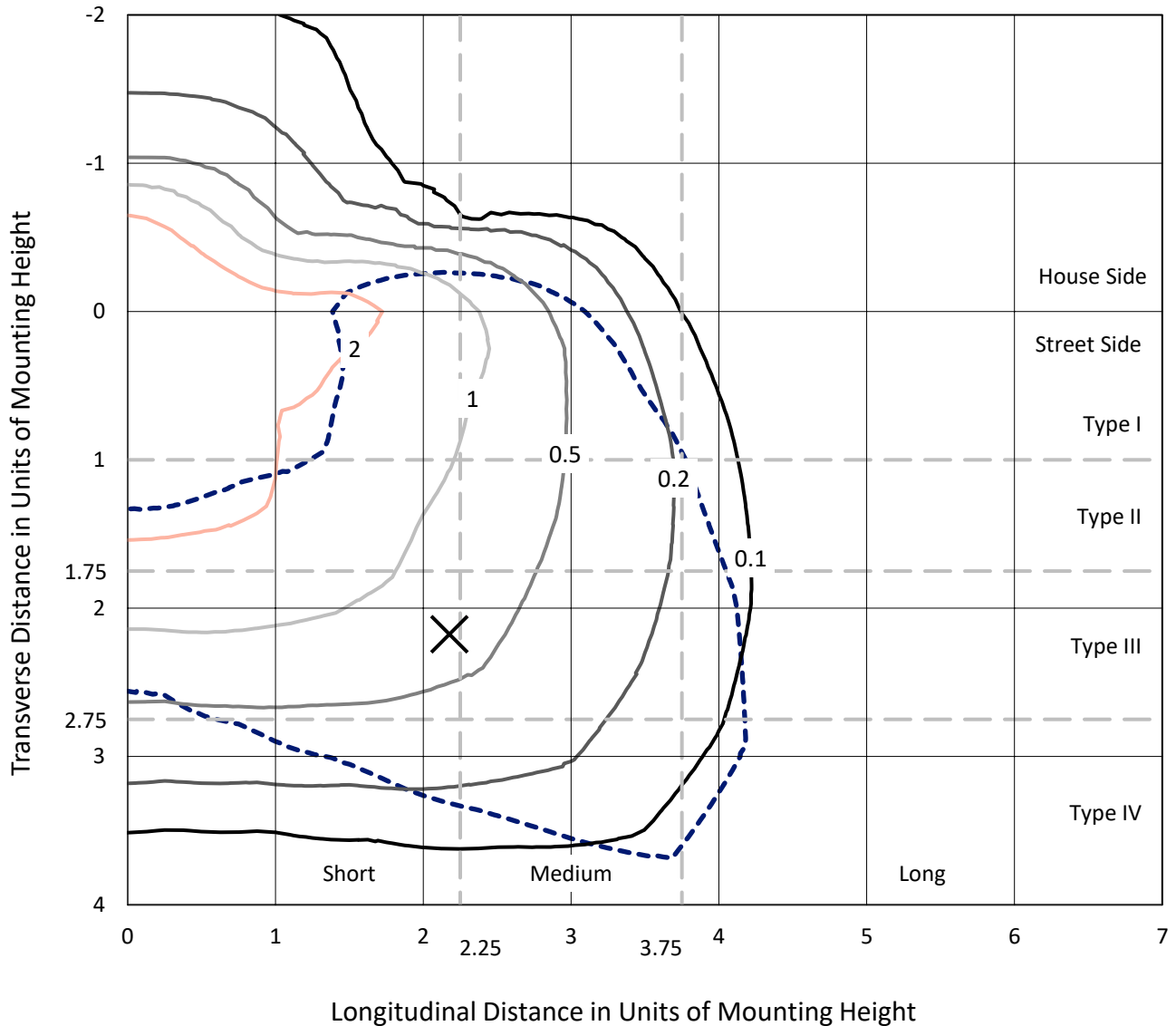
Lumens per Lamp: N/A
Luminaire Lumens: 30103.4 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 281
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

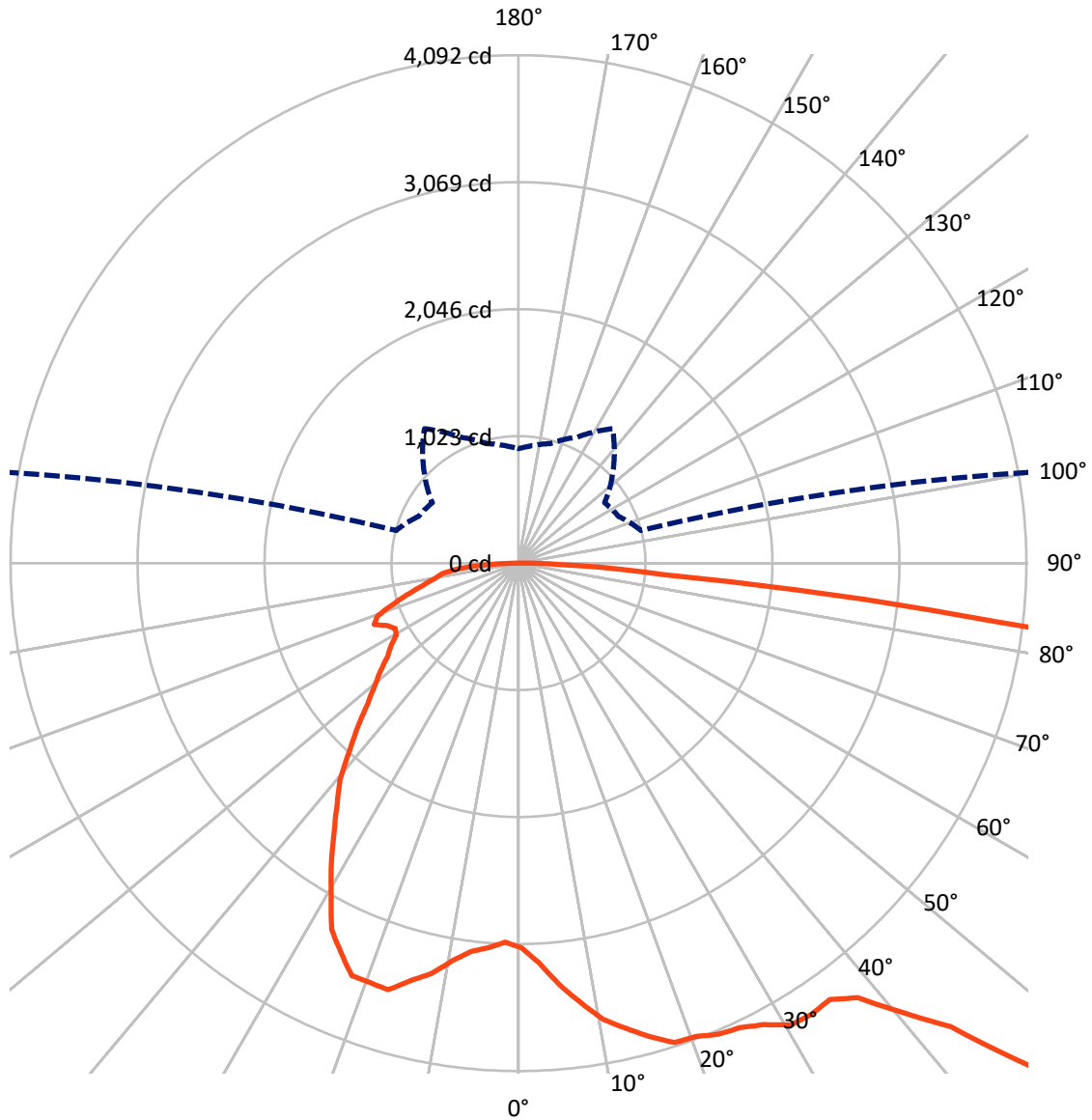
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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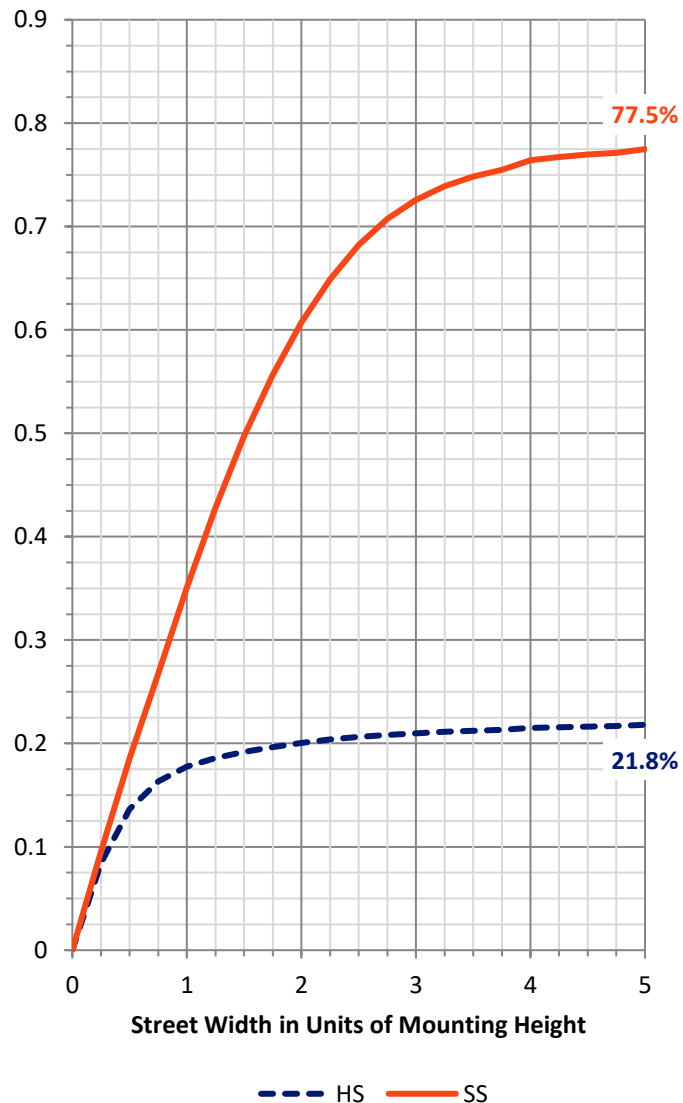
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6701.2	0.0	6701.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	23402.2	0.0	23402.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	30103.4	0.0	30103.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.2	1.1
10°-20°	1055.4	3.5
20°-30°	1782.3	5.9
30°-40°	2466.5	8.2
40°-50°	3528.0	11.7
50°-60°	5690.3	18.9
60°-70°	8392.4	27.9
70°-80°	6094.3	20.2
80°-90°	776.9	2.6
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°	30103.4	100.0
0°-180°	30103.4	100.0

Coefficient of Utilization



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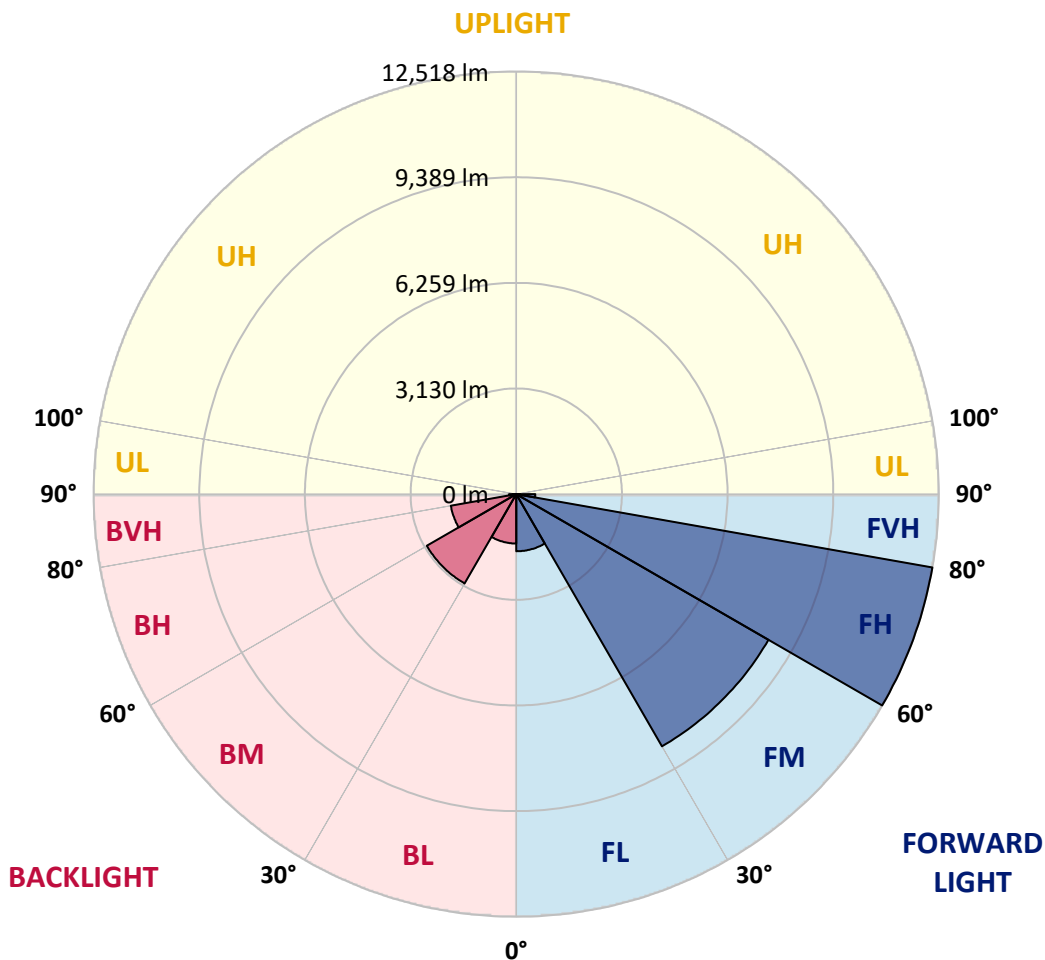
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1691.8	5.6			
FM (30°-60°)	8626.6	28.7			
FH (60°-80°)	12518.3	41.6			G5
FVH (80°-90°)	565.4	1.9			G4/750
BL (0°-30°)	1463.2	4.9	B3/2500		
BM (30°-60°)	3058.2	10.2	B3/5000		
BH (60°-80°)	1968.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	211.4	0.7			G2/225
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°	44°	45°	55°	65°	75°	85°
0°	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1
2.5°	3265.7	3285.1	3265.7	3262.4	3230.0	3207.2	3226.7	3197.5	3165.0	3152.0	3122.8
5°	3564.3	3567.6	3531.9	3535.1	3466.9	3395.5	3408.5	3320.8	3226.7	3191.0	3132.6
7.5°	3869.5	3833.7	3781.8	3765.6	3658.5	3580.5	3570.8	3492.9	3346.8	3265.7	3184.5
10°	4067.5	4080.5	3996.1	3924.6	3833.7	3739.6	3736.4	3590.3	3505.9	3385.8	3281.9
12.5°	4242.8	4246.0	4174.6	4061.0	3947.4	3830.5	3846.7	3781.8	3639.0	3525.4	3421.5
15°	4379.1	4359.6	4281.7	4177.8	4057.7	3966.8	3957.1	3901.9	3781.8	3687.7	3515.6
17.5°	4418.1	4408.3	4330.4	4220.0	4103.2	4035.0	4061.0	3970.1	3921.4	3837.0	3671.4
20°	4343.4	4320.7	4307.7	4184.3	4099.9	4093.4	4070.7	4090.2	4009.0	3931.1	3811.0
22.5°	4207.1	4197.3	4190.8	4093.4	4054.5	4083.7	4122.7	4151.9	4138.9	4064.2	3927.9
25°	4067.5	4112.9	4070.7	4025.3	4080.5	4155.1	4145.4	4239.5	4239.5	4216.8	4103.2
27.5°	4164.9	4135.6	4103.2	4080.5	4099.9	4216.8	4210.3	4323.9	4366.1	4323.9	4194.1
30°	4408.3	4379.1	4285.0	4184.3	4158.4	4285.0	4317.4	4418.1	4437.5	4333.7	4223.3
32.5°	4866.0	4849.8	4700.5	4405.1	4246.0	4317.4	4333.7	4447.3	4431.0	4366.1	4320.7
35°	5544.5	5489.3	5281.5	4781.6	4431.0	4359.6	4317.4	4408.3	4470.0	4437.5	4395.3
37.5°	6287.9	6226.2	5969.7	5336.7	4765.4	4473.2	4440.8	4515.4	4586.9	4570.6	4483.0
40°	6998.8	6998.8	6768.3	6031.4	5262.1	4749.2	4755.7	4671.3	4736.2	4707.0	4723.2
42.5°	7700.0	7674.0	7579.8	6846.2	5794.4	5210.1	5106.3	4895.2	5012.1	5002.4	5025.1
45°	8410.9	8391.4	8365.4	7605.8	6557.3	5833.4	5778.2	5398.4	5505.5	5460.1	5557.5
47.5°	8979.0	9001.7	9001.7	8453.1	7372.1	6664.4	6583.3	5982.7	6187.2	6210.0	6232.7
50°	9462.6	9472.4	9462.6	9261.4	8281.0	7615.6	7450.0	6839.7	7044.2	7222.8	7430.5
52.5°	10131.3	10144.3	10098.9	10021.0	9514.6	8615.4	8430.3	7751.9	8170.7	8358.9	8732.2
55°	10955.9	10858.5	10774.1	10832.5	10699.4	9715.8	9524.3	8693.3	9323.0	9573.0	10319.6
57.5°	11108.5	11192.9	11407.1	11871.3	12062.8	10787.1	10676.7	9848.9	10624.8	10842.3	12088.8
60°	11647.3	11507.7	12033.6	13039.9	13254.2	12182.9	12069.3	11114.9	11920.0	12147.2	13721.6
62.5°	12001.2	11994.7	12773.7	13968.3	14455.3	13630.7	13400.3	12760.8	13319.1	13539.8	15500.5
65°	11897.3	11991.4	13374.3	14513.7	15458.3	15276.6	15143.5	14176.1	14913.0	14893.5	16659.4
67.5°	10949.4	11215.6	12994.5	14906.5	16951.6	17282.7	17240.5	16166.0	16208.2	15795.9	17175.6
70°	9634.7	9543.8	11387.6	14497.5	17698.2	19662.2	19652.4	17646.3	17373.6	15994.0	15695.3
72°	7401.3	7300.7	8816.6	12449.1	17305.4	20613.3	20905.4	18672.1	17360.6	15172.7	12965.3
72.5°	6719.6	6632.0	8141.4	11718.7	16870.4	20860.0	20723.7	18711.0	17224.3	14786.4	12111.5
75°	3093.6	2993.0	4067.5	7174.1	13160.0	18483.8	18948.0	17509.9	15042.8	11770.7	7255.2
77.5°	921.9	892.7	1308.2	2895.6	7648.0	13617.8	13796.3	13212.0	10501.4	6446.9	2691.1
80°	512.9	516.1	675.2	1084.2	3363.0	7872.0	8514.7	8160.9	5151.7	2129.5	895.9
82.5°	285.7	301.9	422.0	642.7	1545.2	3613.0	3888.9	3749.3	1863.3	999.8	490.2
85°	149.3	155.8	220.7	344.1	876.5	1142.7	1175.1	1259.5	967.4	681.7	262.9
87.5°	58.4	58.4	81.2	142.8	324.6	353.8	318.1	386.3	555.1	441.5	129.8
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°	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1	3100.1
2.5°	3148.8	3122.8	3119.6	3077.4	3090.4	3054.7	3057.9	3051.4	3054.7	3048.2	3031.9
5°	3132.6	3113.1	3057.9	3093.6	3061.2	3106.6	3142.3	3129.3	3139.1	3135.8	3139.1
7.5°	3155.3	3129.3	3122.8	3103.4	3132.6	3152.0	3181.3	3262.4	3255.9	3265.7	3285.1
10°	3223.5	3194.2	3174.8	3204.0	3187.8	3249.4	3281.9	3324.1	3398.8	3402.0	3363.0
12.5°	3356.6	3337.1	3298.1	3304.6	3359.8	3379.3	3398.8	3424.7	3473.4	3463.7	3499.4
15°	3509.1	3466.9	3444.2	3437.7	3450.7	3473.4	3470.2	3496.1	3522.1	3544.8	3535.1
17.5°	3619.5	3564.3	3570.8	3603.3	3600.0	3593.5	3551.3	3538.3	3551.3	3564.3	3557.8
20°	3733.1	3739.6	3690.9	3661.7	3648.7	3583.8	3551.3	3512.4	3473.4	3492.9	3522.1
22.5°	3875.9	3846.7	3775.3	3687.7	3622.7	3583.8	3483.2	3415.0	3415.0	3434.5	3424.7
25°	4038.3	3976.6	3853.2	3694.2	3613.0	3447.5	3376.0	3366.3	3340.3	3369.5	3382.5
27.5°	4164.9	4109.7	3940.9	3671.4	3447.5	3314.4	3272.2	3259.2	3301.4	3304.6	3356.6
30°	4216.8	4200.6	3953.9	3613.0	3278.6	3064.4	3038.4	3096.9	3142.3	3210.5	3213.7
32.5°	4285.0	4291.5	3973.3	3476.7	3057.9	2843.7	2804.7	2876.1	3006.0	3061.2	3103.4
35°	4398.6	4431.0	3957.1	3307.9	2824.2	2619.7	2613.2	2632.7	2759.3	2856.6	2911.8
37.5°	4596.6	4590.1	3953.9	3106.6	2639.1	2424.9	2373.0	2379.5	2463.9	2545.0	2535.3
40°	4862.8	4836.8	3944.1	2843.7	2398.9	2259.3	2171.7	2139.2	2132.7	2110.0	2116.5
42.5°	5226.4	5174.4	3940.9	2577.5	2181.4	2032.1	1970.4	1886.0	1824.4	1707.5	1714.0
45°	5732.8	5641.9	3856.5	2327.5	1967.2	1843.8	1749.7	1688.0	1554.9	1408.8	1408.8
47.5°	6515.1	6219.7	3859.7	2051.6	1759.4	1658.8	1593.9	1486.8	1343.9	1227.1	1214.1
50°	7667.5	6992.3	3749.3	1834.1	1590.6	1522.5	1454.3	1330.9	1194.6	1113.4	1123.2
52.5°	9154.2	8144.7	3746.1	1639.3	1457.5	1408.8	1334.2	1223.8	1123.2	1071.2	1051.8
55°	10926.7	9670.4	3863.0	1480.3	1321.2	1295.2	1262.8	1171.9	1074.5	1029.0	1025.8
57.5°	12741.3	11160.4	4051.2	1366.6	1204.3	1223.8	1201.1	1129.7	1051.8	999.8	993.3
60°	14354.6	12342.0	3671.4	1230.3	1100.5	1142.7	1175.1	1113.4	1071.2	1068.0	1045.3
62.5°	15572.0	12848.4	2791.7	1126.4	1045.3	1123.2	1210.8	1249.8	1230.3	1256.3	1259.5
65°	16016.7	12543.3	1921.7	1071.2	1003.1	1168.6	1363.4	1350.4	1236.8	1188.1	1214.1
67.5°	15393.4	11306.5	1425.1	1006.3	973.9	1262.8	1451.0	1288.7	1116.7	1110.2	1090.7
70°	13237.9	9582.7	1162.1	938.1	925.2	1210.8	1412.1	1194.6	1051.8	1009.6	990.1
72°	10546.9	7463.0	1019.3	889.5	847.3	1081.0	1321.2	1119.9	996.6	944.6	921.9
72.5°	9628.2	6917.6	999.8	866.7	831.0	1051.8	1275.8	1097.2	983.6	938.1	902.4
75°	5281.5	3541.6	879.7	795.3	701.2	908.9	1181.6	1029.0	928.4	863.5	857.0
77.5°	1963.9	1373.1	759.6	704.4	607.0	785.6	1074.5	977.1	844.0	762.9	746.6
80°	753.1	723.9	620.0	594.1	509.7	688.2	990.1	876.5	717.4	636.3	610.3
82.5°	457.7	422.0	470.7	464.2	389.5	626.5	931.7	821.3	636.3	516.1	499.9
85°	250.0	250.0	327.9	314.9	272.7	499.9	704.4	545.4	402.5	331.1	337.6
87.5°	110.4	129.8	175.3	165.6	149.3	282.4	344.1	288.9	201.3	136.3	146.1
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)