

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: P480945

Luminaire Tested: **IFLD-M-SA4A-750-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480945
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-750-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

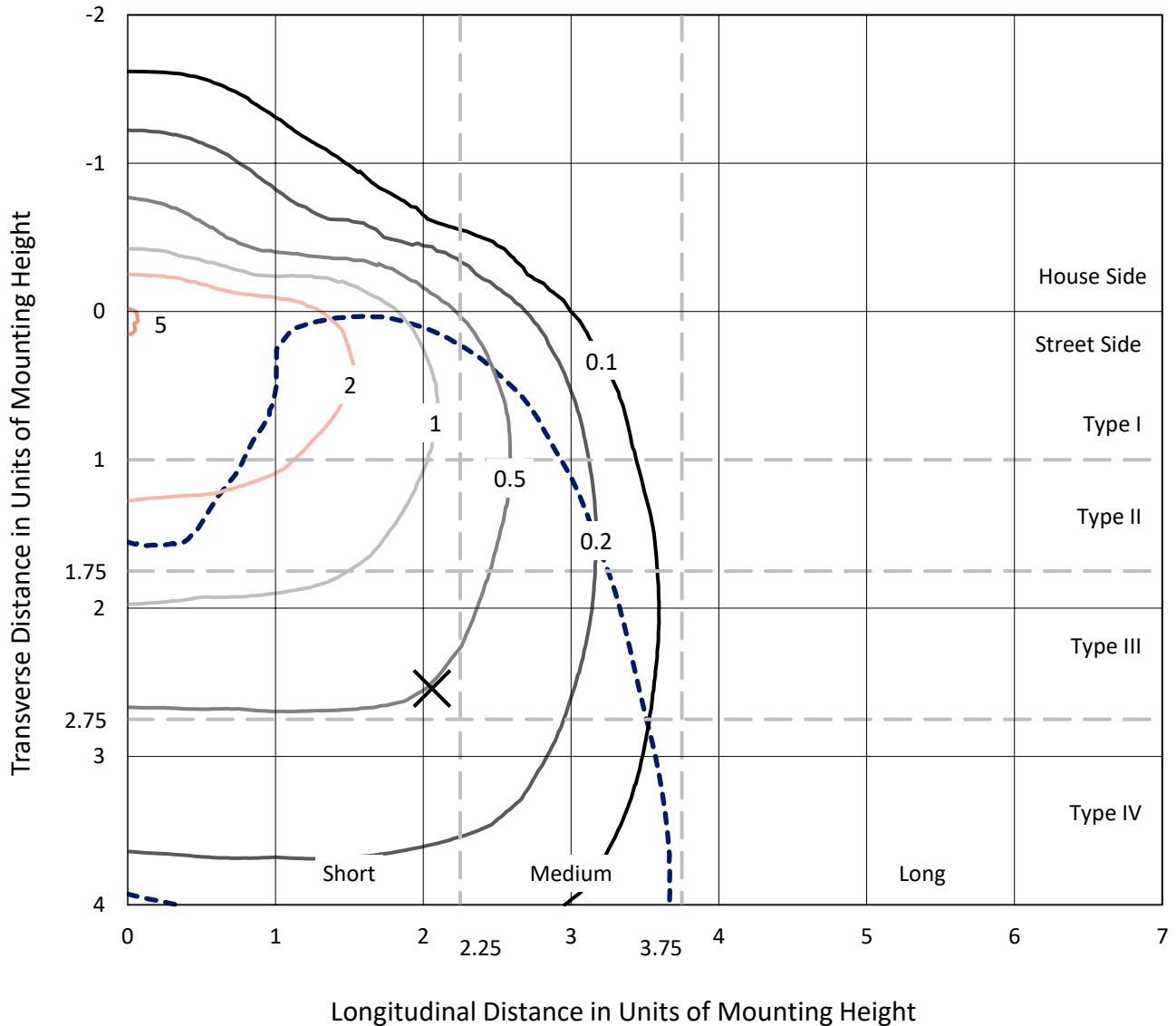
Lumens per Lamp: N/A
Luminaire Lumens: 18272.2 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 128.6
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

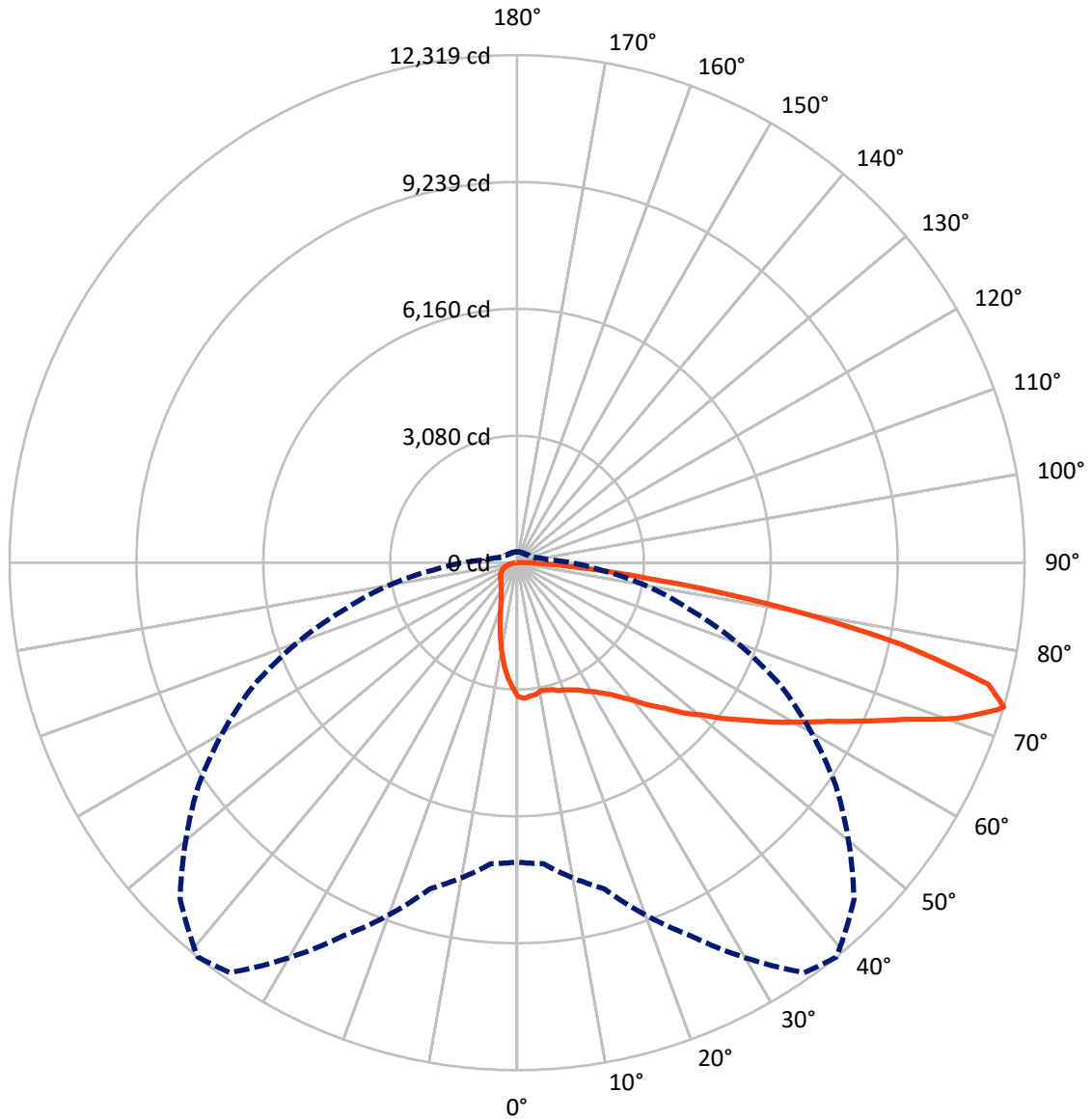
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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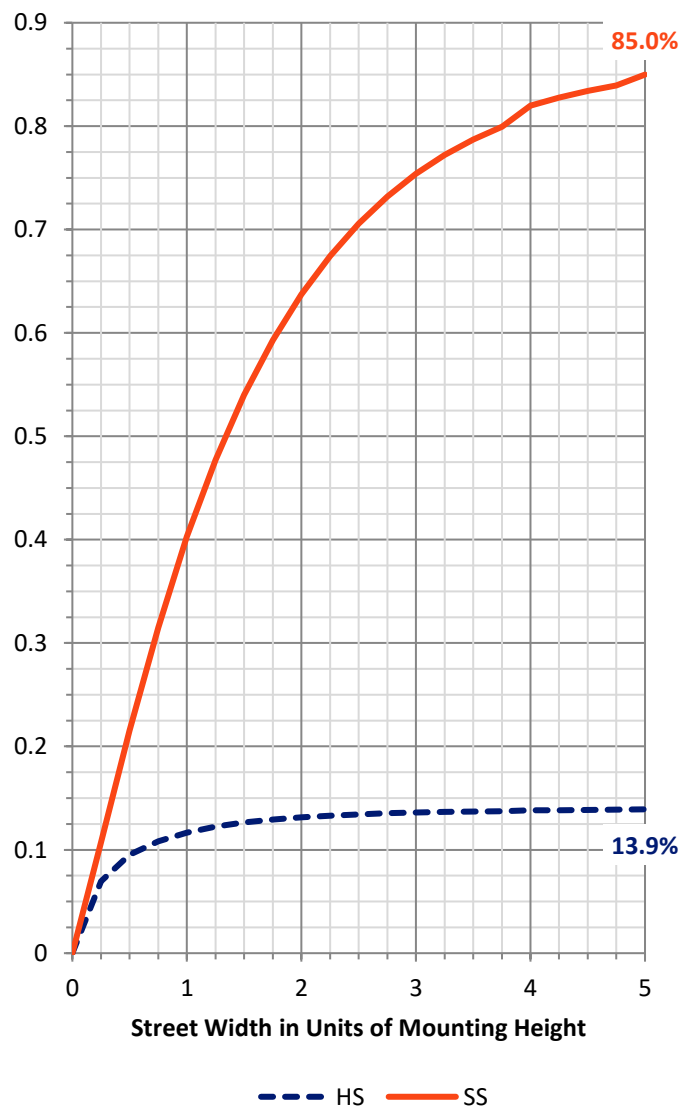
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2568.5	0.0	2568.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	15703.6	0.0	15703.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	18272.2	0.0	18272.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.3	1.5
10°-20°	717.8	3.9
20°-30°	1096.8	6.0
30°-40°	1599.2	8.8
40°-50°	2416.6	13.2
50°-60°	3499.3	19.2
60°-70°	4446.1	24.3
70°-80°	3604.2	19.7
80°-90°	609.8	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°	18272.2	100.0
0°-180°	18272.2	100.0

Coefficient of Utilization



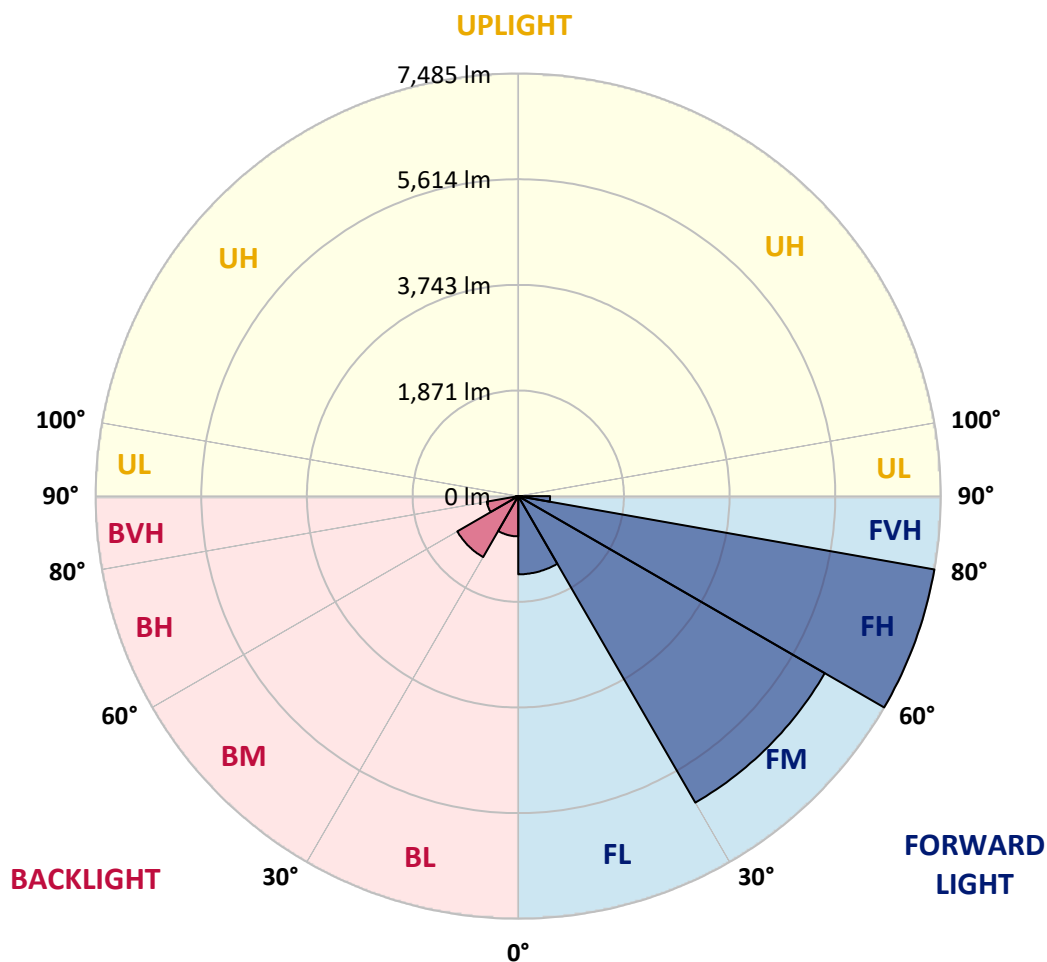
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1384.6	7.6			
FM (30°-60°)	6268.5	34.3			
FH (60°-80°)	7485.4	41.0			G3/7500
FVH (80°-90°)	565.1	3.1			G4/750
BL (0°-30°)	712.3	3.9	B2/1000		
BM (30°-60°)	1246.6	6.8	B2/2500		
BH (60°-80°)	564.9	3.1	B2/1000		G2/1000
BVH (80°-90°)	44.7	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°	3252.6	3252.6	3252.6	3252.6	3252.6	3252.6	3252.6	3252.6	3252.6	3252.6	3252.6
2.5°	3330.2	3295.5	3301.6	3289.4	3301.6	3297.5	3291.4	3260.7	3291.4	3260.7	3252.6
5°	3285.3	3285.3	3305.7	3275.0	3279.1	3258.7	3279.1	3256.6	3236.2	3185.1	3170.8
7.5°	3271.0	3268.9	3271.0	3228.0	3248.5	3236.2	3215.8	3191.2	3150.3	3117.6	3070.6
10°	3172.8	3193.3	3170.8	3183.1	3199.4	3162.6	3160.6	3154.4	3136.0	3093.1	3064.5
12.5°	3119.7	3154.4	3166.7	3156.5	3170.8	3174.9	3162.6	3154.4	3131.9	3103.3	3021.5
15°	3142.2	3101.3	3136.0	3203.5	3189.2	3199.4	3201.5	3193.3	3183.1	3129.9	3076.7
17.5°	3148.3	3123.8	3197.4	3211.7	3230.1	3266.9	3242.3	3240.3	3201.5	3164.7	3087.0
20°	3162.6	3152.4	3211.7	3287.3	3289.4	3295.5	3307.8	3277.1	3256.6	3193.3	3074.7
22.5°	3215.8	3250.5	3305.7	3338.4	3356.8	3360.9	3360.9	3299.6	3277.1	3226.0	3131.9
25°	3375.2	3338.4	3416.1	3454.9	3428.4	3422.2	3407.9	3352.7	3328.2	3283.2	3158.5
27.5°	3491.7	3489.7	3534.7	3587.8	3516.3	3530.6	3479.5	3463.1	3407.9	3383.4	3205.5
30°	3651.2	3696.2	3694.1	3710.5	3616.5	3632.8	3567.4	3536.7	3506.1	3520.4	3344.6
32.5°	3855.6	3839.3	3865.9	3853.6	3759.6	3773.9	3696.2	3649.2	3659.4	3702.3	3534.7
35°	3986.5	3970.1	3980.3	3980.3	3951.7	3935.4	3902.7	3841.3	3890.4	3970.1	3747.3
37.5°	4127.5	4148.0	4207.3	4195.0	4158.2	4158.2	4154.1	4111.2	4174.6	4370.8	4086.7
40°	4252.2	4307.4	4344.2	4368.8	4411.7	4411.7	4446.5	4421.9	4536.4	4851.2	4501.7
42.5°	4383.1	4385.1	4585.5	4603.9	4700.0	4740.8	4767.4	4787.9	5002.5	5354.1	4945.3
45°	4550.7	4560.9	4736.8	4877.8	5027.1	5041.4	5141.5	5209.0	5472.7	5904.1	5427.7
47.5°	4771.5	4759.2	4947.3	5172.2	5358.2	5456.4	5577.0	5650.6	5975.6	6501.0	5955.2
50°	5061.8	5025.0	5133.4	5487.0	5705.8	5814.1	6028.8	6151.4	6531.7	7071.4	6317.0
52.5°	5415.5	5354.1	5440.0	5826.4	6071.7	6290.5	6494.9	6631.9	7028.5	7513.0	6584.8
55°	5789.6	5662.8	5687.4	6186.2	6539.9	6746.4	7026.4	7169.5	7574.3	7909.6	6852.7
57.5°	6159.6	6079.9	6030.8	6531.7	7098.0	7296.3	7553.9	7739.9	8083.4	8261.2	7079.6
60°	6470.4	6449.9	6370.2	7067.3	7688.8	7858.5	8128.3	8242.8	8502.4	8586.3	7083.7
62.5°	6725.9	6656.4	6783.1	7498.7	8289.8	8482.0	8778.4	8788.7	8972.6	8788.7	6875.1
65°	6926.3	6930.3	7132.7	8020.0	8984.9	9269.1	9508.3	9481.7	9363.1	8668.0	6382.5
67.5°	7108.2	7185.9	7482.3	8592.4	9878.3	10146.1	10411.9	10060.2	9469.4	8103.8	5419.6
70°	7251.3	7329.0	7954.6	9289.5	10931.1	11323.6	11382.9	10289.2	8980.8	6864.9	4088.7
72.5°	7235.0	7376.0	8222.4	9845.6	11865.4	12204.8	11726.4	9645.2	7482.3	4785.8	2385.8
73°	7269.7	7339.2	8199.9	10001.0	12149.6	12319.2	11566.9	9442.8	7057.1	4293.1	2017.8
75°	6599.2	6834.3	7793.1	9747.5	11845.0	11814.3	10651.1	7868.7	5016.8	2254.9	977.2
77.5°	4881.9	5031.1	6141.2	8015.9	9722.9	9526.7	8034.3	5029.1	2381.7	836.1	527.4
80°	2385.8	2502.3	3254.6	4628.4	6357.9	6374.3	4986.2	2616.8	1020.1	472.2	359.8
82.5°	1191.9	1261.4	1563.9	2034.1	3127.9	3277.1	2528.9	1488.3	631.7	267.8	204.4
85°	778.9	828.0	962.9	995.6	1326.8	1400.4	1177.5	1161.2	410.9	145.1	165.6
87.5°	517.2	525.4	590.8	502.9	531.5	511.1	568.3	731.9	120.6	61.3	45.0
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°	3252.6	3252.6	3252.6	3252.6	3252.6	3252.6	3252.6	3252.6	3252.6	3252.6	3252.6
2.5°	3242.3	3213.7	3183.1	3140.1	3109.5	3062.4	3019.5	3001.1	2997.0	2999.1	2978.6
5°	3158.5	3117.6	3056.3	2968.4	2917.3	2839.6	2774.2	2739.4	2702.6	2708.8	2692.4
7.5°	3042.0	2997.0	2903.0	2800.8	2674.0	2563.6	2502.3	2416.4	2367.4	2330.6	2351.0
10°	3005.2	2927.5	2786.4	2645.4	2449.1	2304.0	2162.9	2064.8	1997.3	1931.9	1960.5
12.5°	2986.8	2909.1	2712.9	2504.3	2250.8	2030.0	1831.7	1711.1	1615.0	1557.8	1580.3
15°	2970.4	2874.4	2643.3	2349.0	2064.8	1774.5	1551.7	1392.2	1300.2	1245.0	1251.1
17.5°	2992.9	2856.0	2541.1	2197.7	1860.4	1549.6	1302.3	1136.7	1042.6	1007.9	999.7
20°	2970.4	2835.5	2441.0	2046.4	1655.9	1335.0	1097.8	960.8	895.4	866.8	860.7
22.5°	2978.6	2786.4	2336.7	1878.8	1465.8	1155.1	960.8	856.6	805.5	791.2	795.3
25°	3017.5	2757.8	2232.4	1694.8	1277.7	1022.2	872.9	793.2	756.4	742.1	746.2
27.5°	3046.1	2782.4	2138.4	1521.0	1118.3	903.6	799.3	746.2	721.7	711.4	709.4
30°	3117.6	2796.7	2046.4	1365.6	987.4	825.9	748.2	705.3	688.9	682.8	680.8
32.5°	3223.9	2823.2	1940.1	1222.5	891.3	752.3	707.3	670.5	666.5	660.3	662.4
35°	3397.7	2915.2	1821.5	1099.9	799.3	703.3	664.4	639.9	639.9	639.9	646.0
37.5°	3647.1	3044.0	1715.2	983.3	740.1	660.3	627.6	619.4	615.3	621.5	625.6
40°	3968.1	3199.4	1629.3	891.3	688.9	631.7	603.1	599.0	596.9	594.9	599.0
42.5°	4319.7	3397.7	1555.7	819.8	652.1	601.0	580.6	576.5	568.3	572.4	578.6
45°	4669.3	3643.0	1490.3	762.5	627.6	584.7	556.1	554.0	549.9	547.9	558.1
47.5°	5057.7	3884.3	1469.9	727.8	609.2	560.2	539.7	537.7	525.4	523.4	531.5
50°	5360.3	4062.1	1492.4	711.4	582.6	541.8	527.4	517.2	507.0	496.8	496.8
52.5°	5568.8	4184.8	1508.7	699.2	568.3	517.2	498.8	494.7	484.5	474.3	470.2
55°	5756.9	4258.4	1512.8	701.2	554.0	488.6	476.3	474.3	468.2	451.8	447.7
57.5°	5820.3	4227.7	1431.0	682.8	545.8	470.2	453.8	457.9	449.8	435.4	433.4
60°	5814.1	4015.1	1245.0	658.3	527.4	449.8	429.3	441.6	441.6	425.2	423.2
62.5°	5460.5	3524.5	1018.1	611.3	507.0	429.3	406.8	425.2	431.4	421.1	419.1
65°	4726.5	2870.3	850.4	564.2	476.3	406.8	384.3	404.8	415.0	410.9	408.9
67.5°	3910.8	2195.6	707.3	502.9	437.5	376.2	357.8	372.1	378.2	380.2	382.3
70°	2764.0	1461.7	590.8	435.4	384.3	343.5	323.0	325.1	323.0	329.1	329.1
72.5°	1502.6	842.3	480.4	370.0	331.2	298.5	284.2	273.9	273.9	271.9	271.9
73°	1285.9	756.4	457.9	359.8	316.9	290.3	273.9	265.8	265.8	263.7	261.7
75°	721.7	554.0	392.5	308.7	273.9	253.5	241.2	229.0	226.9	226.9	226.9
77.5°	474.3	431.4	312.8	247.4	220.8	202.4	198.3	186.0	186.0	186.0	184.0
80°	355.7	339.4	241.2	188.1	169.7	155.4	151.3	143.1	141.1	132.9	134.9
82.5°	237.1	267.8	175.8	132.9	114.5	106.3	106.3	104.3	98.1	87.9	87.9
85°	188.1	218.7	126.7	81.8	67.5	57.2	59.3	57.2	55.2	45.0	42.9
87.5°	34.8	87.9	36.8	22.5	16.4	10.2	10.2	6.1	4.1	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)