

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: P481063

Luminaire Tested: **IFLD-M-SA4B-830-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481063
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-830-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

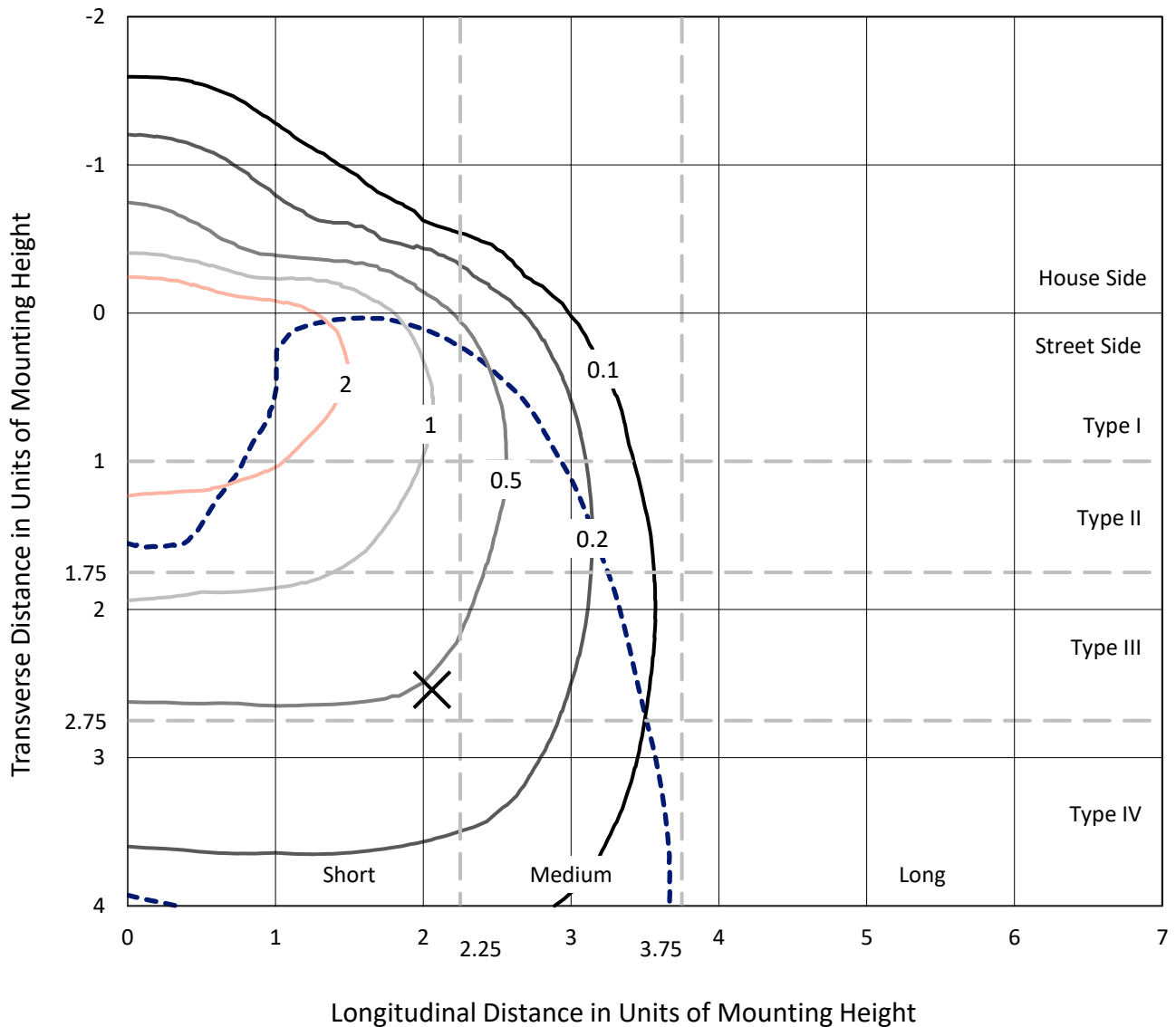
Lumens per Lamp: N/A
Luminaire Lumens: 17554.4 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 166.1
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

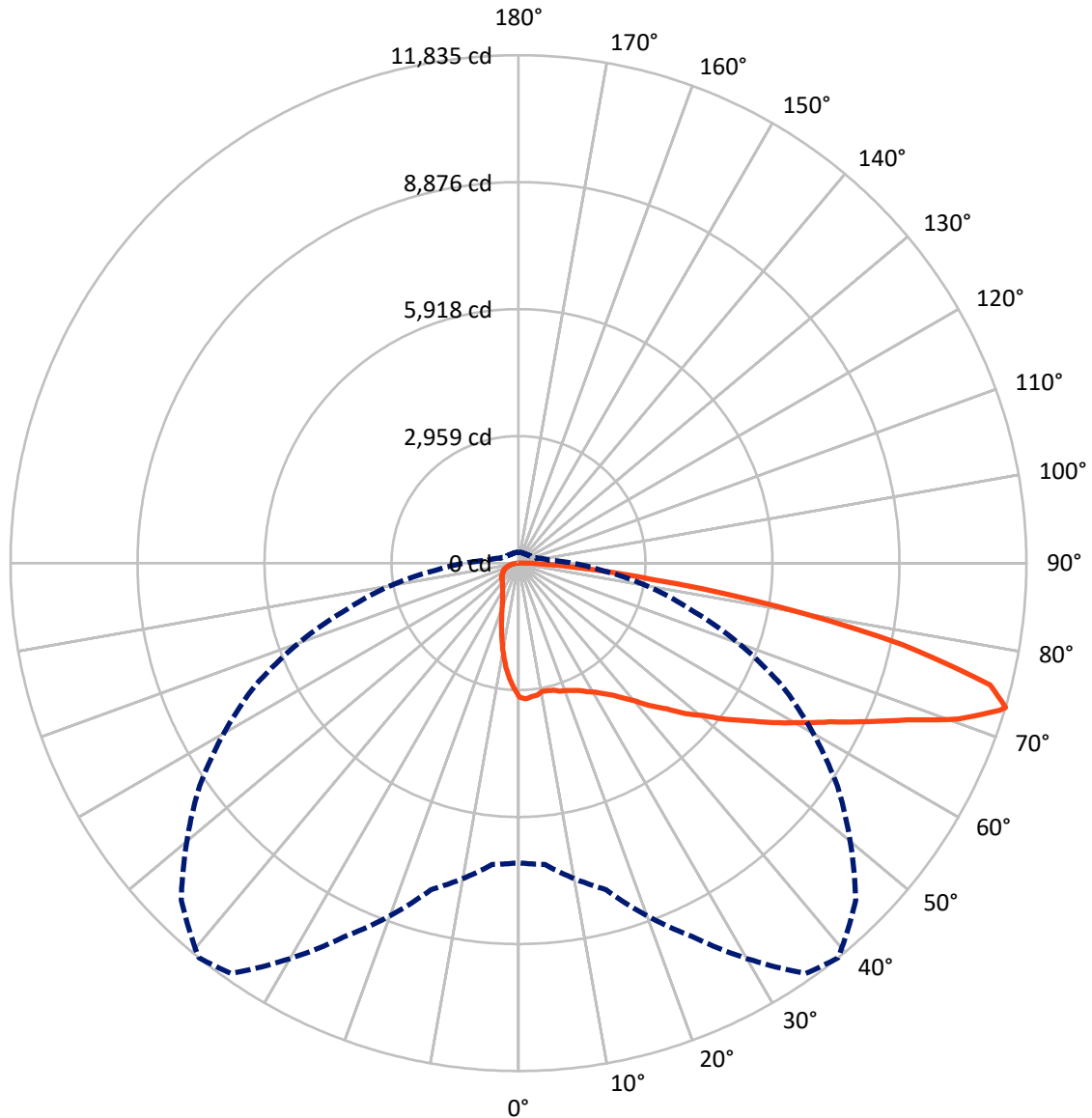
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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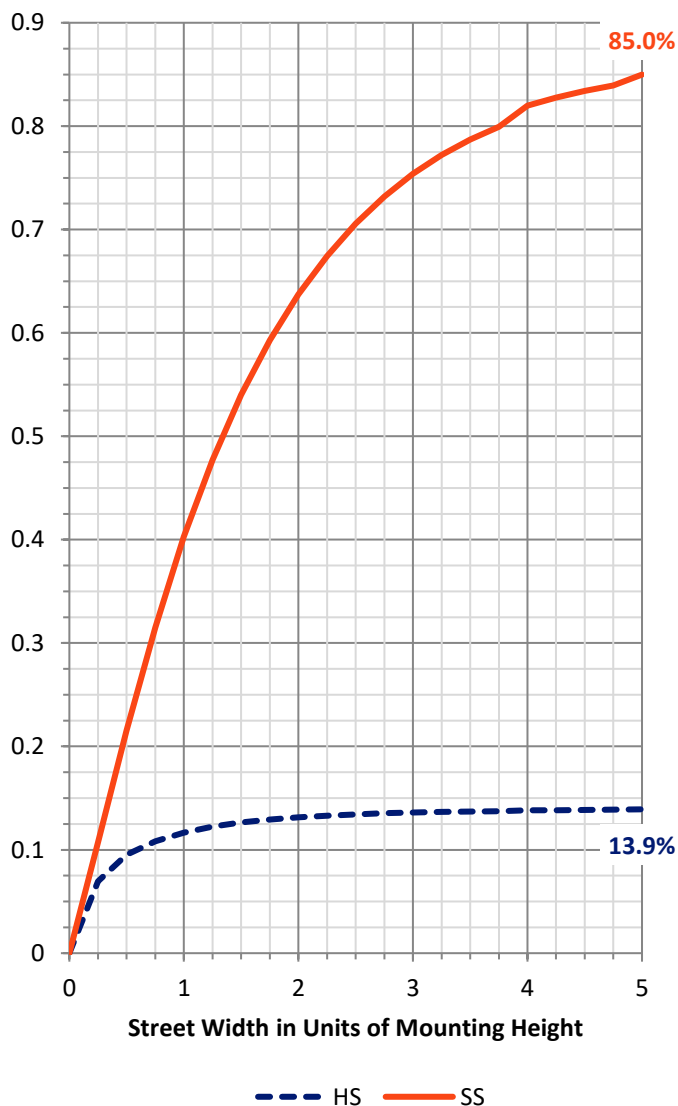
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2467.7	0.0	2467.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	15086.8	0.0	15086.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	17554.4	0.0	17554.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.3	1.5
10°-20°	689.6	3.9
20°-30°	1053.7	6.0
30°-40°	1536.4	8.8
40°-50°	2321.6	13.2
50°-60°	3361.9	19.2
60°-70°	4271.4	24.3
70°-80°	3462.6	19.7
80°-90°	585.9	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°	17554.4	100.0
0°-180°	17554.4	100.0

Coefficient of Utilization



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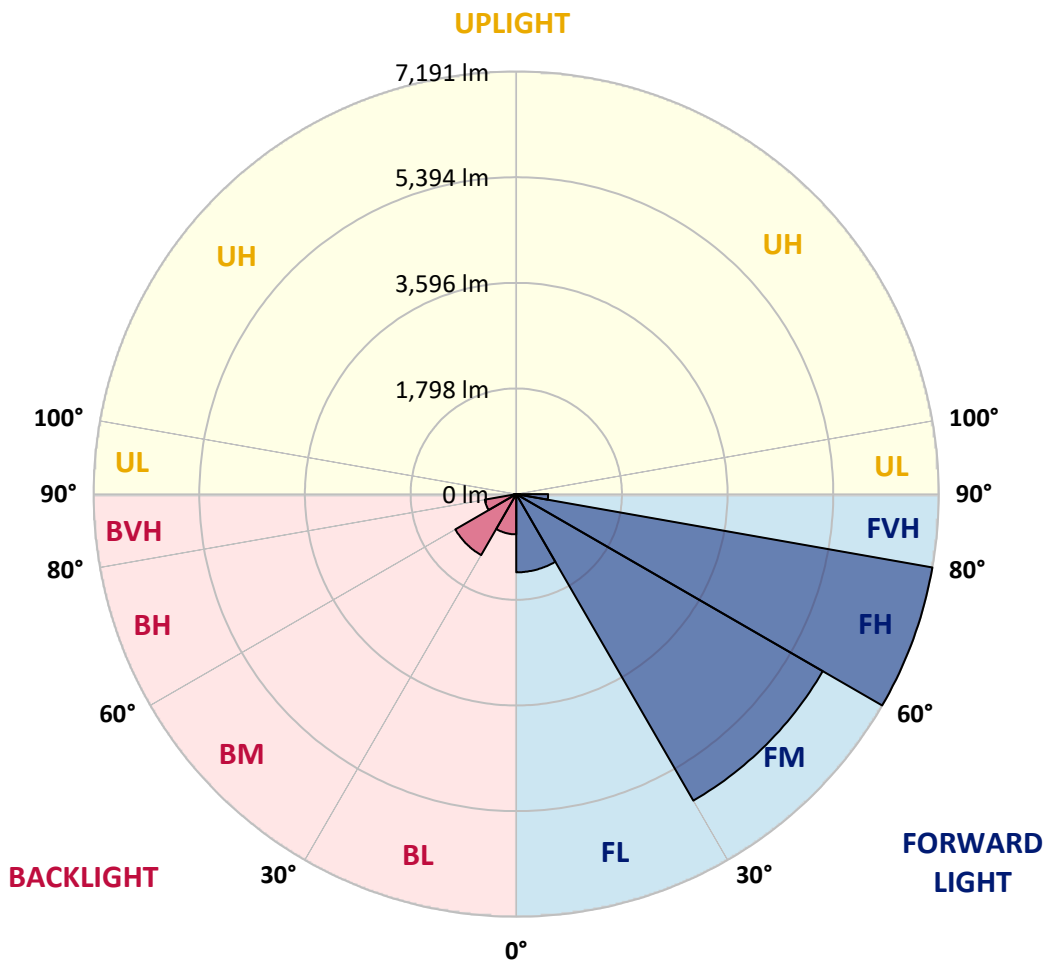
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1330.2	7.6			
FM (30°-60°)	6022.3	34.3			
FH (60°-80°)	7191.3	41.0			G3/7500
FVH (80°-90°)	542.9	3.1			G4/750
BL (0°-30°)	684.3	3.9	B2/1000		
BM (30°-60°)	1197.6	6.8	B2/2500		
BH (60°-80°)	542.7	3.1	B2/1000		G2/1000
BVH (80°-90°)	43.0	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°	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8
2.5°	3199.4	3166.0	3171.9	3160.1	3171.9	3168.0	3162.1	3132.6	3162.1	3132.6	3124.8
5°	3156.2	3156.2	3175.9	3146.4	3150.3	3130.7	3150.3	3128.7	3109.1	3060.0	3046.2
7.5°	3142.5	3140.5	3142.5	3101.2	3120.9	3109.1	3089.4	3065.9	3026.6	2995.2	2950.0
10°	3048.2	3067.8	3046.2	3058.0	3073.7	3038.4	3036.4	3030.5	3012.8	2971.6	2944.1
12.5°	2997.1	3030.5	3042.3	3032.5	3046.2	3050.2	3038.4	3030.5	3008.9	2981.4	2902.9
15°	3018.7	2979.5	3012.8	3077.7	3063.9	3073.7	3075.7	3067.8	3058.0	3006.9	2955.9
17.5°	3024.6	3001.1	3071.8	3085.5	3103.2	3138.5	3115.0	3113.0	3075.7	3040.3	2965.7
20°	3038.4	3028.6	3085.5	3158.2	3160.1	3166.0	3177.8	3148.4	3128.7	3067.8	2953.9
22.5°	3089.4	3122.8	3175.9	3207.3	3225.0	3228.9	3228.9	3170.0	3148.4	3099.3	3008.9
25°	3242.6	3207.3	3281.9	3319.2	3293.7	3287.8	3274.1	3221.0	3197.5	3154.3	3034.4
27.5°	3354.6	3352.6	3395.8	3446.9	3378.2	3391.9	3342.8	3327.1	3274.1	3250.5	3079.6
30°	3507.8	3551.0	3549.0	3564.7	3474.4	3490.1	3427.3	3397.8	3368.3	3382.1	3213.2
32.5°	3704.2	3688.5	3714.0	3702.2	3611.9	3625.6	3551.0	3505.8	3515.6	3556.9	3395.8
35°	3829.9	3814.2	3824.0	3824.0	3796.5	3780.8	3749.4	3690.4	3737.6	3814.2	3600.1
37.5°	3965.4	3985.0	4042.0	4030.2	3994.9	3994.9	3990.9	3949.7	4010.6	4199.1	3926.1
40°	4085.2	4138.2	4173.6	4197.2	4238.4	4238.4	4271.8	4248.2	4358.2	4660.7	4324.8
42.5°	4210.9	4212.9	4405.3	4423.0	4515.3	4554.6	4580.1	4599.8	4806.0	5143.8	4751.0
45°	4372.0	4381.8	4550.7	4686.2	4829.6	4843.3	4939.6	5004.4	5257.7	5672.2	5214.5
47.5°	4584.1	4572.3	4753.0	4969.0	5147.8	5242.0	5357.9	5428.6	5740.9	6245.7	5721.3
50°	4863.0	4827.6	4931.7	5271.5	5481.6	5585.7	5792.0	5909.8	6275.1	6793.6	6068.9
52.5°	5202.7	5143.8	5226.3	5597.5	5833.2	6043.4	6239.8	6371.4	6752.4	7217.9	6326.2
55°	5562.2	5440.4	5464.0	5943.2	6283.0	6481.3	6750.4	6887.9	7276.8	7598.9	6583.5
57.5°	5917.7	5841.1	5793.9	6275.1	6819.2	7009.7	7257.1	7435.9	7765.8	7936.7	6801.5
60°	6216.2	6196.6	6120.0	6789.7	7386.8	7549.8	7809.0	7919.0	8168.5	8249.0	6805.4
62.5°	6461.7	6394.9	6516.7	7204.1	7964.2	8148.8	8433.6	8443.4	8620.2	8443.4	6605.1
65°	6654.2	6658.1	6852.5	7704.9	8632.0	8905.0	9134.8	9109.2	8995.3	8327.5	6131.7
67.5°	6829.0	6903.6	7188.4	8254.9	9490.3	9747.5	10002.9	9665.1	9097.4	7785.5	5206.7
70°	6966.5	7041.1	7642.1	8924.6	10501.7	10878.8	10935.8	9885.0	8628.0	6595.3	3928.1
72.5°	6950.7	7086.3	7899.4	9458.8	11399.3	11725.3	11265.7	9266.4	7188.4	4597.8	2292.0
73°	6984.1	7050.9	7877.8	9608.1	11672.3	11835.3	11112.6	9071.9	6779.9	4124.5	1938.5
75°	6339.9	6565.8	7486.9	9364.6	11379.7	11350.2	10232.7	7559.6	4819.8	2166.3	938.8
77.5°	4690.1	4833.5	5900.0	7701.0	9341.0	9152.4	7718.7	4831.5	2288.1	803.3	506.7
80°	2292.0	2404.0	3126.8	4446.6	6108.2	6123.9	4790.3	2514.0	980.1	453.7	345.7
82.5°	1145.0	1211.8	1502.5	1954.2	3005.0	3148.4	2429.5	1429.8	606.9	257.3	196.4
85°	748.3	795.4	925.1	956.5	1274.7	1345.4	1131.3	1115.6	394.8	139.4	159.1
87.5°	496.9	504.8	567.6	483.2	510.7	491.0	546.0	703.1	115.9	58.9	43.2
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°	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8
2.5°	3115.0	3087.5	3058.0	3016.8	2987.3	2942.1	2900.9	2883.2	2879.3	2881.3	2861.6
5°	3034.4	2995.2	2936.2	2851.8	2802.7	2728.1	2665.2	2631.8	2596.5	2602.4	2586.6
7.5°	2922.5	2879.3	2788.9	2690.7	2569.0	2462.9	2404.0	2321.5	2274.4	2239.0	2258.6
10°	2887.1	2812.5	2677.0	2541.5	2352.9	2213.5	2078.0	1983.7	1918.9	1856.0	1883.5
12.5°	2869.5	2794.8	2606.3	2406.0	2162.4	1950.3	1759.8	1643.9	1551.6	1496.6	1518.2
15°	2853.8	2761.4	2539.5	2256.7	1983.7	1704.8	1490.7	1337.5	1249.1	1196.1	1202.0
17.5°	2875.4	2743.8	2441.3	2111.3	1787.3	1488.7	1251.1	1092.0	1001.7	968.3	960.4
20°	2853.8	2724.1	2345.1	1966.0	1590.9	1282.5	1054.7	923.1	860.3	832.8	826.9
22.5°	2861.6	2677.0	2244.9	1805.0	1408.2	1109.7	923.1	822.9	773.8	760.1	764.0
25°	2898.9	2649.5	2144.7	1628.2	1227.5	982.0	838.6	762.0	726.7	712.9	716.9
27.5°	2926.4	2673.1	2054.4	1461.2	1074.3	868.1	767.9	716.9	693.3	683.5	681.5
30°	2995.2	2686.8	1966.0	1312.0	948.6	793.5	718.8	677.6	661.9	656.0	654.0
32.5°	3097.3	2712.3	1863.9	1174.5	856.3	722.8	679.6	644.2	640.3	634.4	636.3
35°	3264.2	2800.7	1750.0	1056.7	767.9	675.6	638.3	614.7	614.7	614.7	620.6
37.5°	3503.9	2924.5	1647.8	944.7	711.0	634.4	603.0	595.1	591.2	597.1	601.0
40°	3812.2	3073.7	1565.3	856.3	661.9	606.9	579.4	575.5	573.5	571.5	575.5
42.5°	4150.0	3264.2	1494.6	787.6	626.5	577.4	557.8	553.9	546.0	549.9	555.8
45°	4485.9	3499.9	1431.8	732.6	603.0	561.7	534.2	532.3	528.3	526.4	536.2
47.5°	4859.0	3731.7	1412.1	699.2	585.3	538.1	518.5	516.5	504.8	502.8	510.7
50°	5149.7	3902.6	1433.8	683.5	559.8	520.5	506.7	496.9	487.1	477.3	477.3
52.5°	5350.1	4020.4	1449.5	671.7	546.0	496.9	479.2	475.3	465.5	455.7	451.7
55°	5530.7	4091.1	1453.4	673.7	532.3	469.4	457.6	455.7	449.8	434.1	430.1
57.5°	5591.6	4061.6	1374.8	656.0	524.4	451.7	436.0	439.9	432.1	418.3	416.4
60°	5585.7	3857.4	1196.1	632.4	506.7	432.1	412.4	424.2	424.2	408.5	406.6
62.5°	5246.0	3386.0	978.1	587.2	487.1	412.4	390.8	408.5	414.4	404.6	402.6
65°	4540.9	2757.5	817.0	542.1	457.6	390.8	369.2	388.9	398.7	394.8	392.8
67.5°	3757.2	2109.4	679.6	483.2	420.3	361.4	343.7	357.5	363.3	365.3	367.3
70°	2655.4	1404.3	567.6	418.3	369.2	330.0	310.3	312.3	310.3	316.2	316.2
72.5°	1443.6	809.2	461.6	355.5	318.2	286.8	273.0	263.2	263.2	261.2	261.2
73°	1235.4	726.7	439.9	345.7	304.4	278.9	263.2	255.3	255.3	253.4	251.4
75°	693.3	532.3	377.1	296.6	263.2	243.5	231.8	220.0	218.0	218.0	218.0
77.5°	455.7	414.4	300.5	237.6	212.1	194.4	190.5	178.7	178.7	178.7	176.8
80°	341.7	326.0	231.8	180.7	163.0	149.3	145.3	137.5	135.5	127.7	129.6
82.5°	227.8	257.3	168.9	127.7	110.0	102.1	102.1	100.2	94.3	84.5	84.5
85°	180.7	210.2	121.8	78.6	64.8	55.0	57.0	55.0	53.0	43.2	41.2
87.5°	33.4	84.5	35.4	21.6	15.7	9.8	9.8	5.9	3.9	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)