

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: P480771

Luminaire Tested: **IFLD-S-SA3C-727-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480771
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-727-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

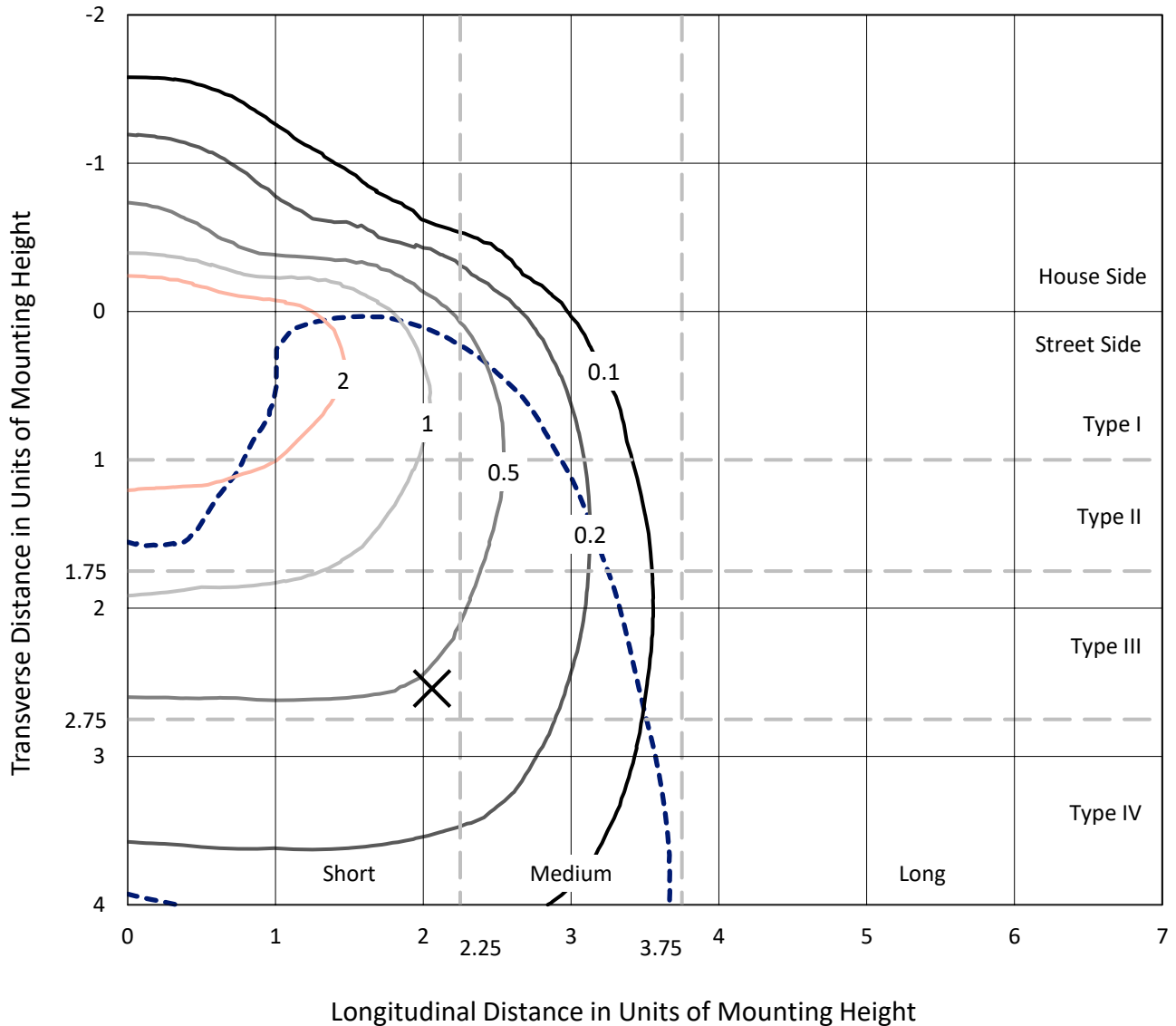
Lumens per Lamp: N/A
Luminaire Lumens: 17134.9 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 160.8
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

REPORT NUMBER: P480771
 CATALOG NUMBER: IFLD-S-SA3C-727-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

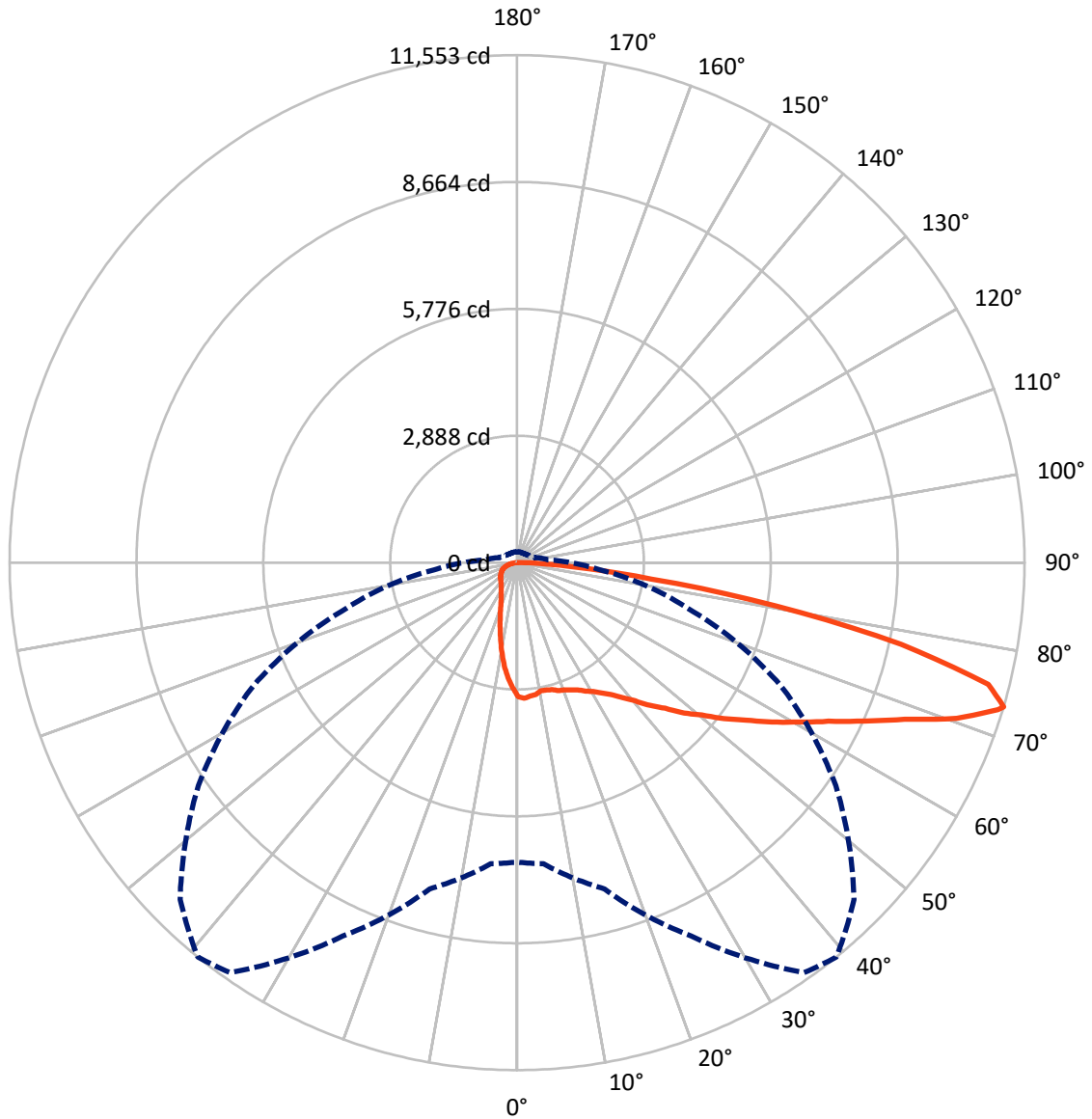
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P480771
CATALOG NUMBER: IFLD-S-SA3C-727-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P480771
 CATALOG NUMBER: IFLD-S-SA3C-727-U-SL4

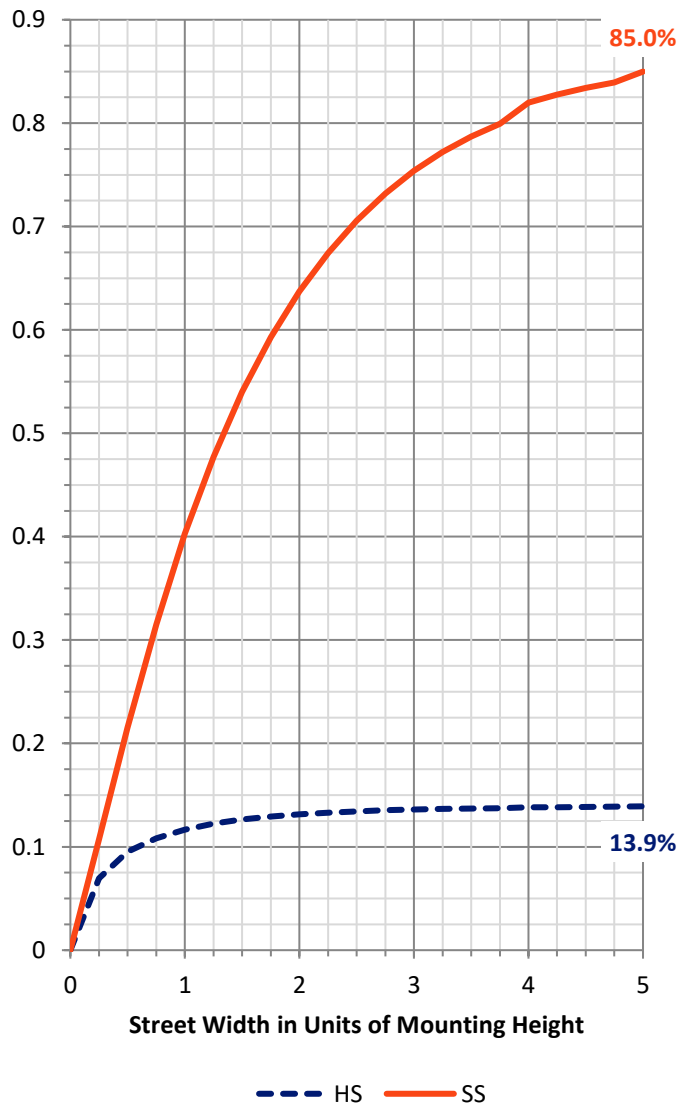
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2408.7	0.0	2408.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	14726.2	0.0	14726.2
	% Fixture	85.9	0.0	85.9
Total	Lumens	17134.9	0.0	17134.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.8	1.5
10°-20°	673.1	3.9
20°-30°	1028.6	6.0
30°-40°	1499.7	8.8
40°-50°	2266.2	13.2
50°-60°	3281.5	19.2
60°-70°	4169.3	24.3
70°-80°	3379.9	19.7
80°-90°	571.9	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°	17134.9	100.0
0°-180°	17134.9	100.0

Coefficient of Utilization



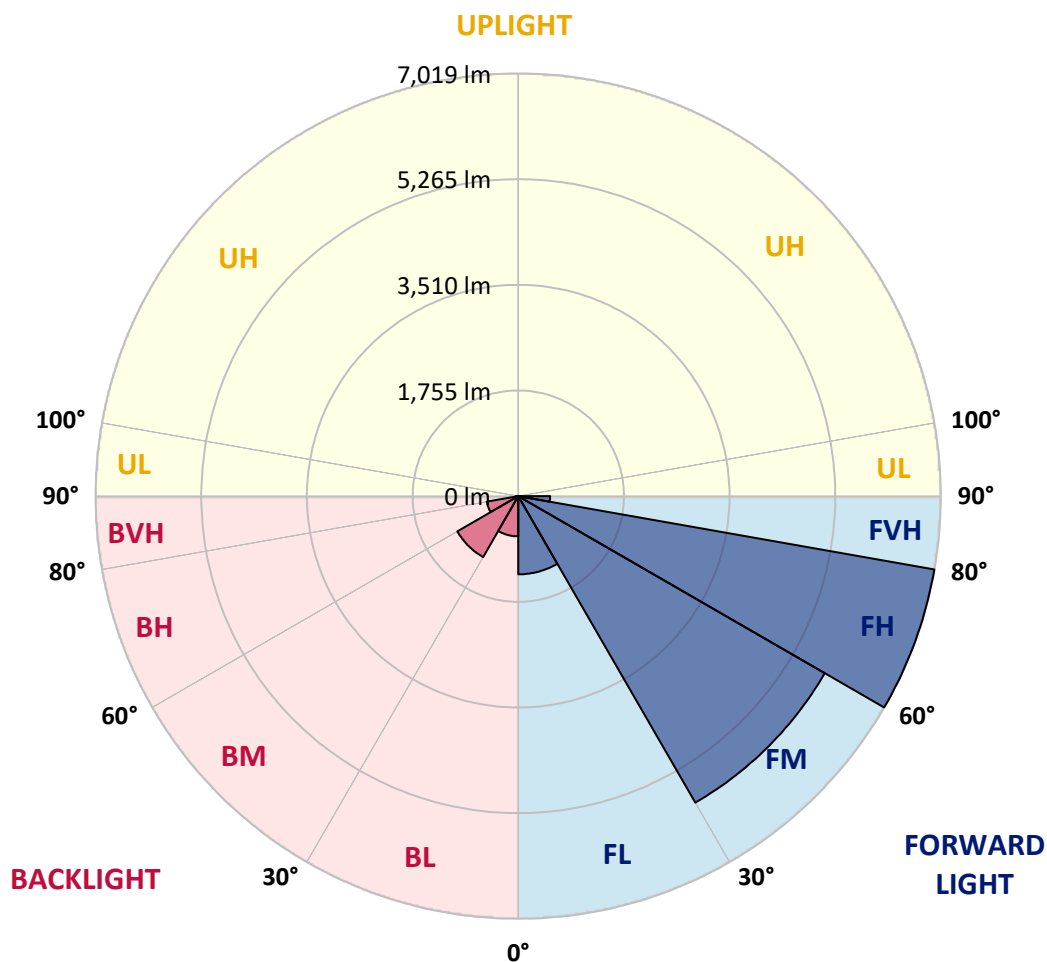
REPORT NUMBER: P480771
 CATALOG NUMBER: IFLD-S-SA3C-727-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1298.4	7.6			
FM (30°-60°)	5878.4	34.3			
FH (60°-80°)	7019.5	41.0			G3/7500
FVH (80°-90°)	529.9	3.1			G4/750
BL (0°-30°)	668.0	3.9	B2/1000		
BM (30°-60°)	1169.0	6.8	B2/2500		
BH (60°-80°)	529.8	3.1	B2/1000		G2/1000
BVH (80°-90°)	42.0	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





REPORT NUMBER: P480771

CATALOG NUMBER: IFLD-S-SA3C-727-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3050.1	3050.1	3050.1	3050.1	3050.1	3050.1	3050.1	3050.1	3050.1	3050.1	3050.1
2.5°	3123.0	3090.4	3096.1	3084.6	3096.1	3092.3	3086.5	3057.8	3086.5	3057.8	3050.1
5°	3080.8	3080.8	3100.0	3071.2	3075.0	3055.9	3075.0	3053.9	3034.8	2986.8	2973.4
7.5°	3067.4	3065.4	3067.4	3027.1	3046.3	3034.8	3015.6	2992.6	2954.3	2923.6	2879.5
10°	2975.3	2994.5	2973.4	2984.9	3000.3	2965.8	2963.8	2958.1	2940.8	2900.6	2873.7
12.5°	2925.5	2958.1	2969.6	2960.0	2973.4	2977.3	2965.8	2958.1	2937.0	2910.2	2833.5
15°	2946.6	2908.2	2940.8	3004.1	2990.7	3000.3	3002.2	2994.5	2984.9	2935.1	2885.2
17.5°	2952.3	2929.3	2998.3	3011.8	3029.0	3063.5	3040.5	3038.6	3002.2	2967.7	2894.8
20°	2965.8	2956.2	3011.8	3082.7	3084.6	3090.4	3101.9	3073.1	3053.9	2994.5	2883.3
22.5°	3015.6	3048.2	3100.0	3130.6	3147.9	3151.7	3151.7	3094.2	3073.1	3025.2	2937.0
25°	3165.1	3130.6	3203.5	3239.9	3215.0	3209.2	3195.8	3144.0	3121.0	3078.9	2961.9
27.5°	3274.4	3272.5	3314.7	3364.5	3297.4	3310.8	3262.9	3247.6	3195.8	3172.8	3006.0
30°	3423.9	3466.1	3464.2	3479.5	3391.4	3406.7	3345.3	3316.6	3287.8	3301.3	3136.4
32.5°	3615.7	3600.3	3625.2	3613.7	3525.6	3539.0	3466.1	3422.0	3431.6	3471.9	3314.7
35°	3738.4	3723.0	3732.6	3732.6	3705.8	3690.4	3659.7	3602.2	3648.2	3723.0	3514.1
37.5°	3870.6	3889.8	3945.4	3933.9	3899.4	3899.4	3895.6	3855.3	3914.7	4098.8	3832.3
40°	3987.6	4039.3	4073.8	4096.8	4137.1	4137.1	4169.7	4146.7	4254.1	4549.3	4221.5
42.5°	4110.3	4112.2	4300.1	4317.3	4407.4	4445.8	4470.7	4489.9	4691.2	5020.9	4637.5
45°	4267.5	4277.1	4441.9	4574.2	4714.2	4727.6	4821.5	4884.8	5132.1	5536.6	5089.9
47.5°	4474.5	4463.0	4639.4	4850.3	5024.7	5116.7	5229.9	5298.9	5603.7	6096.4	5584.5
50°	4746.7	4712.2	4813.8	5145.5	5350.6	5452.2	5653.5	5768.6	6125.1	6631.3	5923.8
52.5°	5078.4	5020.9	5101.4	5463.7	5693.8	5898.9	6090.6	6219.1	6591.0	7045.4	6175.0
55°	5429.2	5310.4	5333.4	5801.2	6132.8	6326.4	6589.1	6723.3	7102.9	7417.3	6426.1
57.5°	5776.2	5701.5	5655.5	6125.1	6656.2	6842.1	7083.7	7258.2	7580.2	7747.0	6638.9
60°	6067.6	6048.5	5973.7	6627.4	7210.2	7369.3	7622.4	7729.8	7973.2	8051.8	6642.8
62.5°	6307.3	6242.1	6360.9	7031.9	7773.9	7954.1	8232.0	8241.6	8414.2	8241.6	6447.2
65°	6495.1	6499.0	6688.8	7520.8	8425.7	8692.1	8916.4	8891.5	8780.3	8128.5	5985.2
67.5°	6665.8	6738.6	7016.6	8057.6	9263.4	9514.6	9763.8	9434.1	8880.0	7599.4	5082.2
70°	6800.0	6872.8	7459.4	8711.3	10250.8	10618.8	10674.4	9648.8	8421.8	6437.6	3834.2
72.5°	6784.6	6916.9	7710.6	9232.8	11126.9	11445.1	10996.5	9044.9	7016.6	4487.9	2237.3
73°	6817.2	6882.4	7689.5	9378.5	11393.3	11552.5	10847.0	8855.1	6617.8	4025.9	1892.2
75°	6188.4	6408.9	7308.0	9140.7	11107.7	11078.9	9988.1	7378.9	4704.6	2114.6	916.4
77.5°	4578.0	4718.0	5759.0	7517.0	9117.7	8933.7	7534.2	4716.1	2233.4	784.1	494.6
80°	2237.3	2346.5	3052.0	4340.3	5962.2	5977.5	4675.8	2453.9	956.6	442.9	337.4
82.5°	1117.7	1182.9	1466.6	1907.5	2933.2	3073.1	2371.5	1395.7	592.4	251.1	191.7
85°	730.4	776.4	903.0	933.6	1244.2	1313.2	1104.3	1088.9	385.3	136.1	155.3
87.5°	485.0	492.7	554.0	471.6	498.4	479.3	533.0	686.3	113.1	57.5	42.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480771
 CATALOG NUMBER: IFLD-S-SA3C-727-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3050.1	3050.1	3050.1	3050.1	3050.1	3050.1	3050.1	3050.1	3050.1	3050.1	3050.1
2.5°	3040.5	3013.7	2984.9	2944.7	2915.9	2871.8	2831.6	2814.3	2810.5	2812.4	2793.2
5°	2961.9	2923.6	2866.1	2783.6	2735.7	2662.9	2601.5	2568.9	2534.4	2540.2	2524.8
7.5°	2852.6	2810.5	2722.3	2626.4	2507.6	2404.0	2346.5	2266.0	2220.0	2185.5	2204.7
10°	2818.1	2745.3	2613.0	2480.7	2296.7	2160.6	2028.3	1936.3	1873.0	1811.7	1838.5
12.5°	2800.9	2728.0	2544.0	2348.5	2110.7	1903.7	1717.7	1604.6	1514.5	1460.8	1481.9
15°	2785.6	2695.4	2478.8	2202.8	1936.3	1664.0	1455.1	1305.5	1219.3	1167.5	1173.3
17.5°	2806.6	2678.2	2383.0	2060.9	1744.6	1453.2	1221.2	1065.9	977.7	945.1	937.5
20°	2785.6	2659.0	2289.0	1919.0	1552.9	1251.9	1029.5	901.0	839.7	812.9	807.1
22.5°	2793.2	2613.0	2191.2	1761.8	1374.6	1083.2	901.0	803.3	755.3	741.9	745.8
25°	2829.6	2586.2	2093.5	1589.3	1198.2	958.6	818.6	743.8	709.3	695.9	699.7
27.5°	2856.5	2609.2	2005.3	1426.3	1048.7	847.4	749.6	699.7	676.7	667.2	665.2
30°	2923.6	2622.6	1919.0	1280.6	926.0	774.5	701.7	661.4	646.1	640.3	638.4
32.5°	3023.3	2647.5	1819.3	1146.4	835.9	705.5	663.3	628.8	625.0	619.2	621.1
35°	3186.2	2733.8	1708.1	1031.4	749.6	659.5	623.1	600.1	600.1	600.1	605.8
37.5°	3420.1	2854.6	1608.4	922.1	694.0	619.2	588.6	580.9	577.0	582.8	586.6
40°	3721.1	3000.3	1527.9	835.9	646.1	592.4	565.5	561.7	559.8	557.9	561.7
42.5°	4050.8	3186.2	1458.9	768.8	611.6	563.6	544.5	540.6	533.0	536.8	542.5
45°	4378.7	3416.3	1397.6	715.1	588.6	548.3	521.5	519.5	515.7	513.8	523.4
47.5°	4742.9	3642.5	1378.4	682.5	571.3	525.3	506.1	504.2	492.7	490.8	498.4
50°	5026.6	3809.3	1399.5	667.2	546.4	508.0	494.6	485.0	475.4	465.9	465.9
52.5°	5222.2	3924.3	1414.8	655.6	533.0	485.0	467.8	463.9	454.4	444.8	440.9
55°	5398.6	3993.3	1418.7	657.6	519.5	458.2	446.7	444.8	439.0	423.7	419.8
57.5°	5458.0	3964.6	1342.0	640.3	511.9	440.9	425.6	429.4	421.8	408.3	406.4
60°	5452.2	3765.2	1167.5	617.3	494.6	421.8	402.6	414.1	414.1	398.8	396.8
62.5°	5120.6	3305.1	954.7	573.2	475.4	402.6	381.5	398.8	404.5	394.9	393.0
65°	4432.3	2691.6	797.5	529.1	446.7	381.5	360.4	379.6	389.2	385.3	383.4
67.5°	3667.4	2059.0	663.3	471.6	410.3	352.7	335.5	348.9	354.7	356.6	358.5
70°	2591.9	1370.7	554.0	408.3	360.4	322.1	302.9	304.8	302.9	308.7	308.7
72.5°	1409.1	789.8	450.5	347.0	310.6	279.9	266.5	256.9	256.9	255.0	255.0
73°	1205.9	709.3	429.4	337.4	297.2	272.2	256.9	249.2	249.2	247.3	245.4
75°	676.7	519.5	368.1	289.5	256.9	237.7	226.2	214.7	212.8	212.8	212.8
77.5°	444.8	404.5	293.3	232.0	207.0	189.8	186.0	174.5	174.5	174.5	172.5
80°	333.6	318.2	226.2	176.4	159.1	145.7	141.9	134.2	132.3	124.6	126.5
82.5°	222.4	251.1	164.9	124.6	107.4	99.7	99.7	97.8	92.0	82.4	82.4
85°	176.4	205.1	118.9	76.7	63.3	53.7	55.6	53.7	51.8	42.2	40.3
87.5°	32.6	82.4	34.5	21.1	15.3	9.6	9.6	5.8	3.8	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)