

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: P480790

Luminaire Tested: **IFLD-M-SA4B-727-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480790
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-727-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

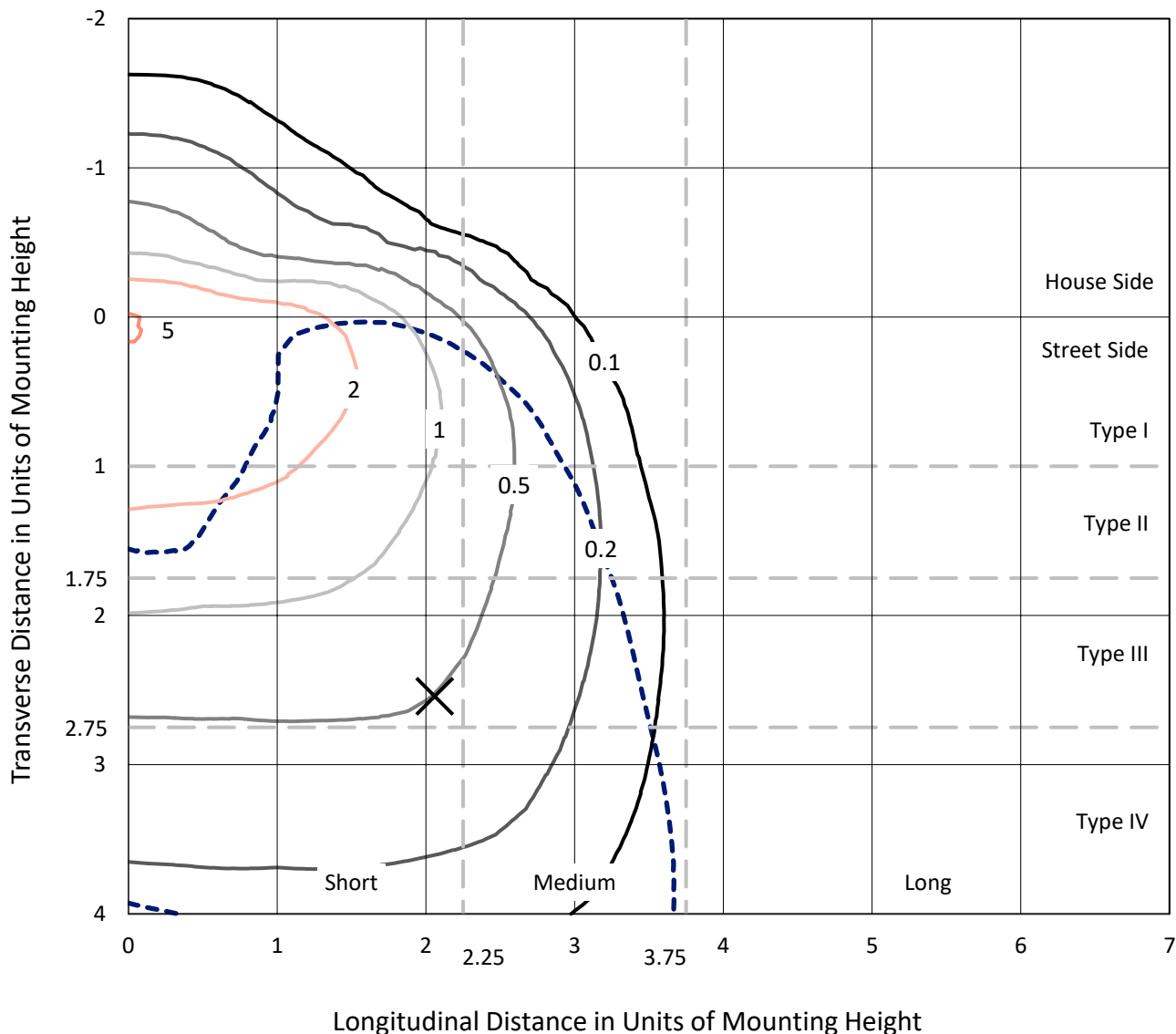
Lumens per Lamp: N/A
Luminaire Lumens: 18475.6 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

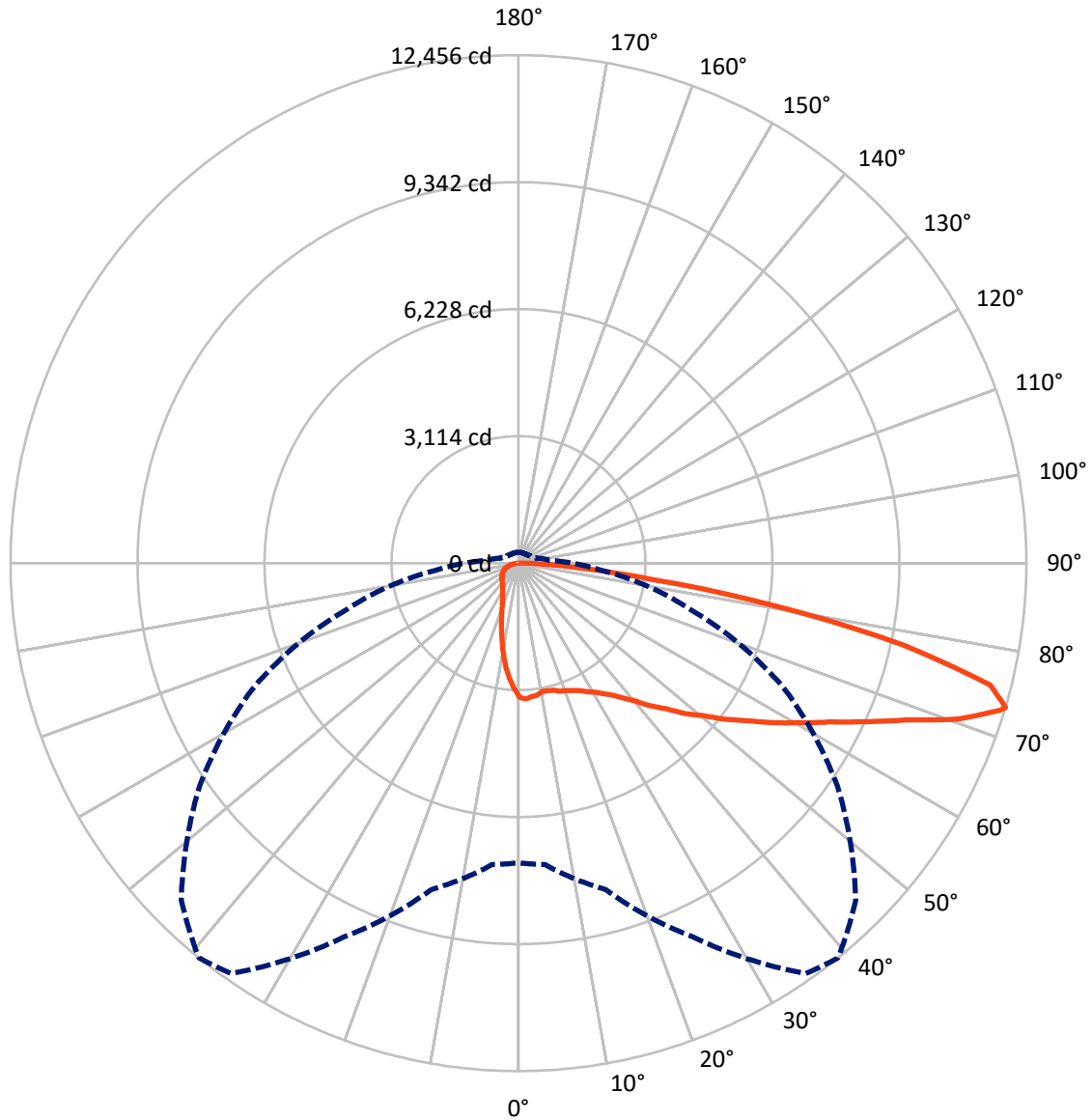
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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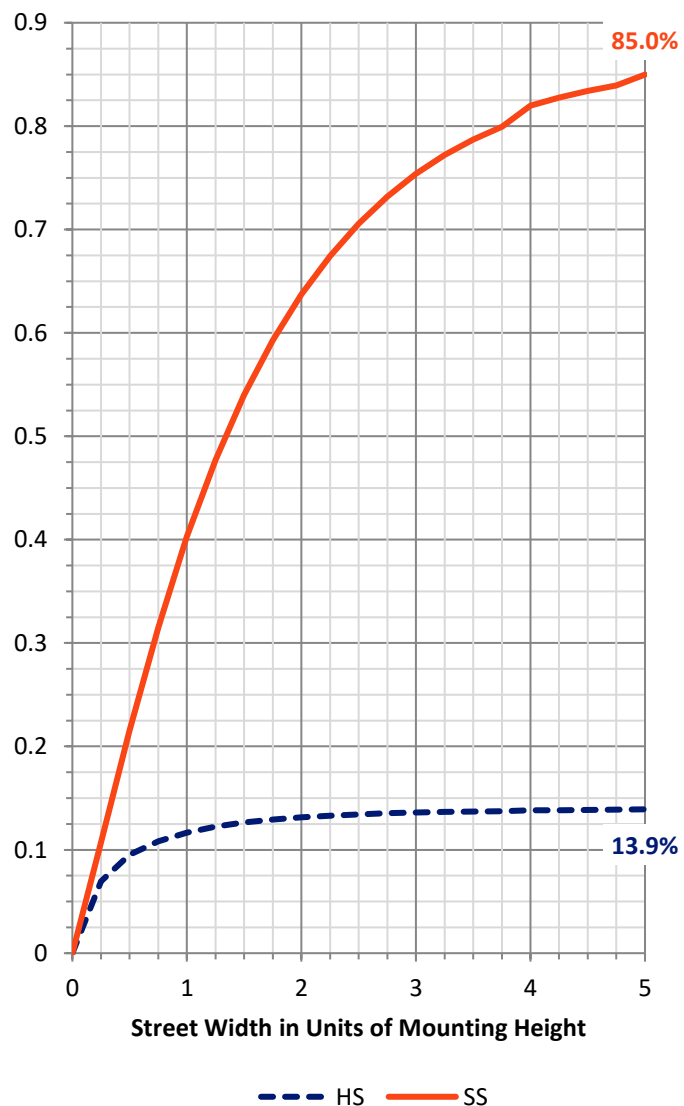
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2597.2	0.0	2597.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	15878.5	0.0	15878.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	18475.6	0.0	18475.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.5	1.5
10°-20°	725.8	3.9
20°-30°	1109.0	6.0
30°-40°	1617.0	8.8
40°-50°	2443.5	13.2
50°-60°	3538.3	19.2
60°-70°	4495.6	24.3
70°-80°	3644.4	19.7
80°-90°	616.6	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°	18475.6	100.0
0°-180°	18475.6	100.0

Coefficient of Utilization



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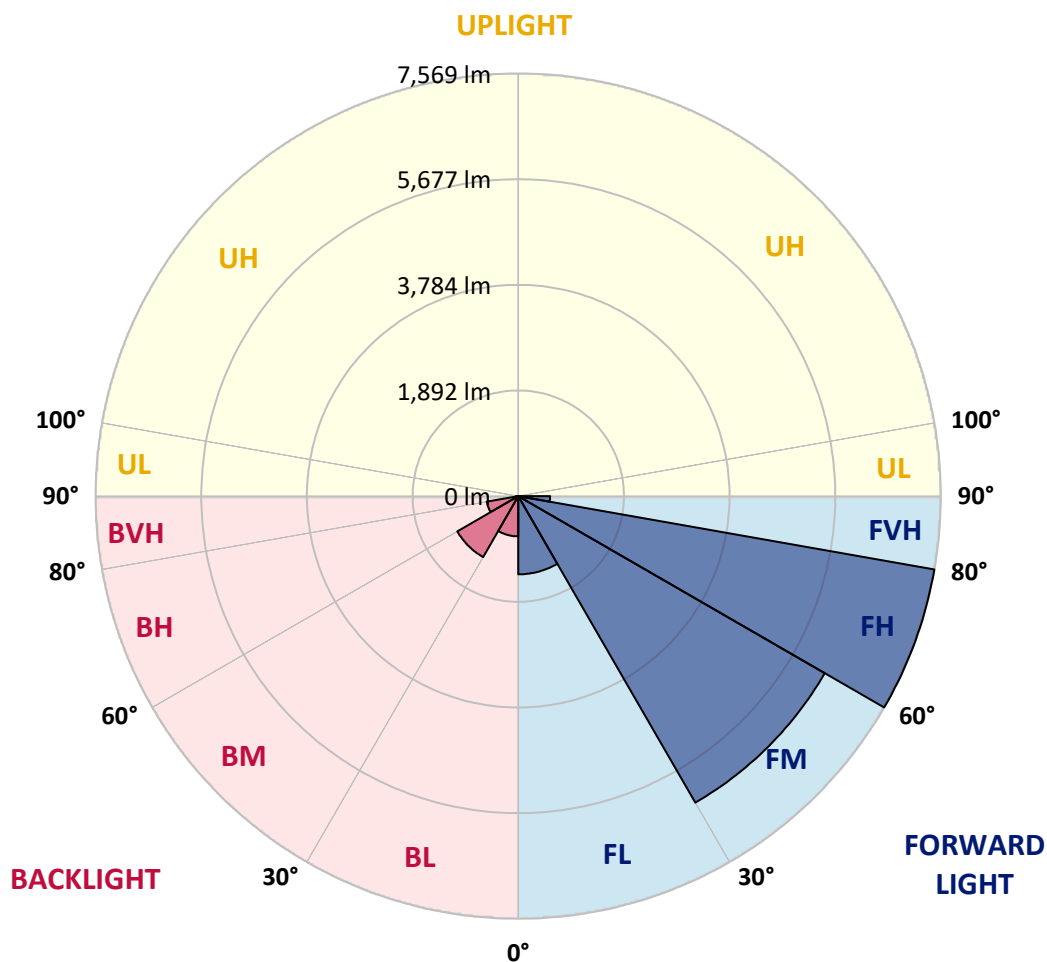
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1400.0	7.6			
FM (30°-60°)	6338.3	34.3			
FH (60°-80°)	7568.7	41.0			G4/12000
FVH (80°-90°)	571.4	3.1			G4/750
BL (0°-30°)	720.2	3.9	B2/1000		
BM (30°-60°)	1260.5	6.8	B2/2500		
BH (60°-80°)	571.2	3.1	B2/1000		G2/1000
BVH (80°-90°)	45.2	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°	3288.8	3288.8	3288.8	3288.8	3288.8	3288.8	3288.8	3288.8	3288.8	3288.8	3288.8
2.5°	3367.3	3332.2	3338.4	3326.0	3338.4	3334.3	3328.1	3297.0	3328.1	3297.0	3288.8
5°	3321.9	3321.9	3342.5	3311.5	3315.7	3295.0	3315.7	3292.9	3272.2	3220.6	3206.1
7.5°	3307.4	3305.3	3307.4	3264.0	3284.6	3272.2	3251.6	3226.8	3185.4	3152.3	3104.8
10°	3208.2	3228.8	3206.1	3218.5	3235.0	3197.8	3195.8	3189.6	3171.0	3127.5	3098.6
12.5°	3154.4	3189.6	3202.0	3191.6	3206.1	3210.2	3197.8	3189.6	3166.8	3137.9	3055.2
15°	3177.2	3135.8	3171.0	3239.2	3224.7	3235.0	3237.1	3228.8	3218.5	3164.8	3111.0
17.5°	3183.4	3158.6	3233.0	3247.4	3266.0	3303.2	3278.4	3276.4	3237.1	3199.9	3121.3
20°	3197.8	3187.5	3247.4	3323.9	3326.0	3332.2	3344.6	3313.6	3292.9	3228.8	3108.9
22.5°	3251.6	3286.7	3342.5	3375.6	3394.2	3398.3	3398.3	3336.3	3313.6	3261.9	3166.8
25°	3412.8	3375.6	3454.1	3493.4	3466.6	3460.3	3445.9	3390.1	3365.3	3319.8	3193.7
27.5°	3530.6	3528.6	3574.0	3627.8	3555.4	3569.9	3518.2	3501.7	3445.9	3421.1	3241.2
30°	3691.9	3737.3	3735.3	3751.8	3656.7	3673.3	3607.1	3576.1	3545.1	3559.6	3381.8
32.5°	3898.6	3882.0	3908.9	3896.5	3801.4	3815.9	3737.3	3689.8	3700.1	3743.5	3574.0
35°	4030.9	4014.3	4024.7	4024.7	3995.7	3979.2	3946.1	3884.1	3933.7	4014.3	3789.0
37.5°	4173.5	4194.2	4254.1	4241.7	4204.5	4204.5	4200.4	4157.0	4221.0	4419.5	4132.2
40°	4299.6	4355.4	4392.6	4417.4	4460.8	4460.8	4496.0	4471.2	4586.9	4905.3	4551.8
42.5°	4431.9	4434.0	4636.5	4655.1	4752.3	4793.6	4820.5	4841.2	5058.2	5413.8	5000.3
45°	4601.4	4611.7	4789.5	4932.1	5083.0	5097.5	5198.8	5267.0	5533.7	5969.8	5488.2
47.5°	4824.6	4812.2	5002.4	5229.8	5417.9	5517.1	5639.1	5713.5	6042.2	6573.4	6021.5
50°	5118.2	5081.0	5190.5	5548.1	5769.3	5878.9	6095.9	6219.9	6604.4	7150.1	6387.4
52.5°	5475.8	5413.8	5500.6	5891.3	6139.3	6360.5	6567.2	6705.7	7106.7	7596.6	6658.2
55°	5854.1	5725.9	5750.7	6255.1	6612.7	6821.5	7104.7	7249.4	7658.7	7997.7	6929.0
57.5°	6228.2	6147.6	6098.0	6604.4	7177.0	7377.5	7638.0	7826.1	8173.4	8353.2	7158.4
60°	6542.4	6521.7	6441.1	7146.0	7774.4	7946.0	8218.8	8334.6	8597.1	8681.9	7162.6
62.5°	6800.8	6730.5	6858.7	7582.2	8382.1	8576.5	8876.2	8886.5	9072.6	8886.5	6951.7
65°	7003.4	7007.5	7212.2	8109.3	9085.0	9372.3	9614.1	9587.3	9467.4	8764.6	6453.5
67.5°	7187.4	7265.9	7565.6	8688.1	9988.3	10259.1	10527.8	10172.3	9574.9	8194.0	5479.9
70°	7332.1	7410.6	8043.1	9393.0	11052.9	11449.7	11509.7	10403.8	9080.8	6941.4	4134.2
72.5°	7315.5	7458.1	8313.9	9955.2	11997.5	12340.7	11857.0	9752.6	7565.6	4839.1	2412.3
73°	7350.7	7420.9	8291.2	10112.3	12284.9	12456.4	11695.7	9548.0	7135.7	4340.9	2040.2
75°	6672.6	6910.4	7879.8	9856.0	11976.9	11945.9	10769.7	7956.3	5072.7	2280.0	988.1
77.5°	4936.3	5087.2	6209.6	8105.2	9831.2	9632.8	8123.8	5085.1	2408.2	845.4	533.3
80°	2412.3	2530.1	3290.8	4679.9	6428.7	6445.3	5041.7	2645.9	1031.5	477.5	363.8
82.5°	1205.1	1275.4	1581.3	2056.8	3162.7	3313.6	2557.0	1504.9	638.7	270.8	206.7
85°	787.6	837.2	973.6	1006.7	1341.6	1416.0	1190.7	1174.1	415.5	146.8	167.4
87.5°	523.0	531.2	597.4	508.5	537.4	516.8	574.7	740.0	122.0	62.0	45.5
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°	3288.8	3288.8	3288.8	3288.8	3288.8	3288.8	3288.8	3288.8	3288.8	3288.8	3288.8
2.5°	3278.4	3249.5	3218.5	3175.1	3144.1	3096.5	3053.1	3034.5	3030.4	3032.5	3011.8
5°	3193.7	3152.3	3090.3	3001.4	2949.8	2871.2	2805.1	2769.9	2732.7	2738.9	2722.4
7.5°	3075.9	3030.4	2935.3	2831.9	2703.8	2592.2	2530.1	2443.3	2393.7	2356.5	2377.2
10°	3038.7	2960.1	2817.5	2674.8	2476.4	2329.6	2187.0	2087.8	2019.6	1953.4	1982.4
12.5°	3020.1	2941.5	2743.1	2532.2	2275.9	2052.6	1852.1	1730.2	1633.0	1575.1	1597.9
15°	3003.5	2906.4	2672.8	2375.1	2087.8	1794.3	1568.9	1407.7	1314.7	1258.9	1265.1
17.5°	3026.3	2887.8	2569.4	2222.1	1881.1	1566.9	1316.8	1149.3	1054.2	1019.1	1010.8
20°	3003.5	2867.1	2468.1	2069.2	1674.4	1349.8	1110.0	971.5	905.4	876.5	870.3
22.5°	3011.8	2817.5	2362.7	1899.7	1482.1	1167.9	971.5	866.1	814.4	800.0	804.1
25°	3051.1	2788.5	2257.3	1713.6	1291.9	1033.6	882.7	802.0	764.8	750.4	754.5
27.5°	3080.0	2813.3	2162.2	1537.9	1130.7	913.7	808.2	754.5	729.7	719.4	717.3
30°	3152.3	2827.8	2069.2	1380.8	998.4	835.1	756.6	713.2	696.6	690.4	688.3
32.5°	3259.8	2854.7	1961.7	1236.1	901.3	760.7	715.2	678.0	673.9	667.7	669.7
35°	3435.5	2947.7	1841.8	1112.1	808.2	711.1	671.8	647.0	647.0	647.0	653.2
37.5°	3687.7	3077.9	1734.3	994.3	748.3	667.7	634.6	626.3	622.2	628.4	632.5
40°	4012.3	3235.0	1647.5	901.3	696.6	638.7	609.8	605.7	603.6	601.5	605.7
42.5°	4367.8	3435.5	1573.1	828.9	659.4	607.7	587.1	582.9	574.7	578.8	585.0
45°	4721.3	3683.6	1506.9	771.0	634.6	591.2	562.3	560.2	556.1	554.0	564.3
47.5°	5114.0	3927.5	1486.3	735.9	616.0	566.4	545.7	543.7	531.2	529.2	537.4
50°	5420.0	4107.4	1509.0	719.4	589.1	547.8	533.3	523.0	512.6	502.3	502.3
52.5°	5630.8	4231.4	1525.5	707.0	574.7	523.0	504.4	500.2	489.9	479.6	475.4
55°	5821.0	4305.8	1529.7	709.0	560.2	494.0	481.6	479.6	473.4	456.8	452.7
57.5°	5885.1	4274.8	1447.0	690.4	551.9	475.4	458.9	463.0	454.8	440.3	438.2
60°	5878.9	4059.8	1258.9	665.6	533.3	454.8	434.1	446.5	446.5	430.0	427.9
62.5°	5521.3	3563.7	1029.4	618.1	512.6	434.1	411.4	430.0	436.2	425.8	423.8
65°	4779.2	2902.2	859.9	570.5	481.6	411.4	388.6	409.3	419.6	415.5	413.4
67.5°	3954.4	2220.1	715.2	508.5	442.4	380.3	361.7	376.2	382.4	384.5	386.6
70°	2794.7	1478.0	597.4	440.3	388.6	347.3	326.6	328.7	326.6	332.8	332.8
72.5°	1519.3	851.7	485.8	374.1	334.9	301.8	287.3	277.0	277.0	274.9	274.9
73°	1300.2	764.8	463.0	363.8	320.4	293.5	277.0	268.7	268.7	266.7	264.6
75°	729.7	560.2	396.9	312.1	277.0	256.3	243.9	231.5	229.4	229.4	229.4
77.5°	479.6	436.2	316.3	250.1	223.2	204.6	200.5	188.1	188.1	188.1	186.0
80°	359.7	343.1	243.9	190.2	171.6	157.1	153.0	144.7	142.6	134.4	136.4
82.5°	239.8	270.8	177.8	134.4	115.8	107.5	107.5	105.4	99.2	88.9	88.9
85°	190.2	221.2	128.2	82.7	68.2	57.9	59.9	57.9	55.8	45.5	43.4
87.5°	35.1	88.9	37.2	22.7	16.5	10.3	10.3	6.2	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)