

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: P480789

Luminaire Tested: **IFLD-M-SA4A-727-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480789
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-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

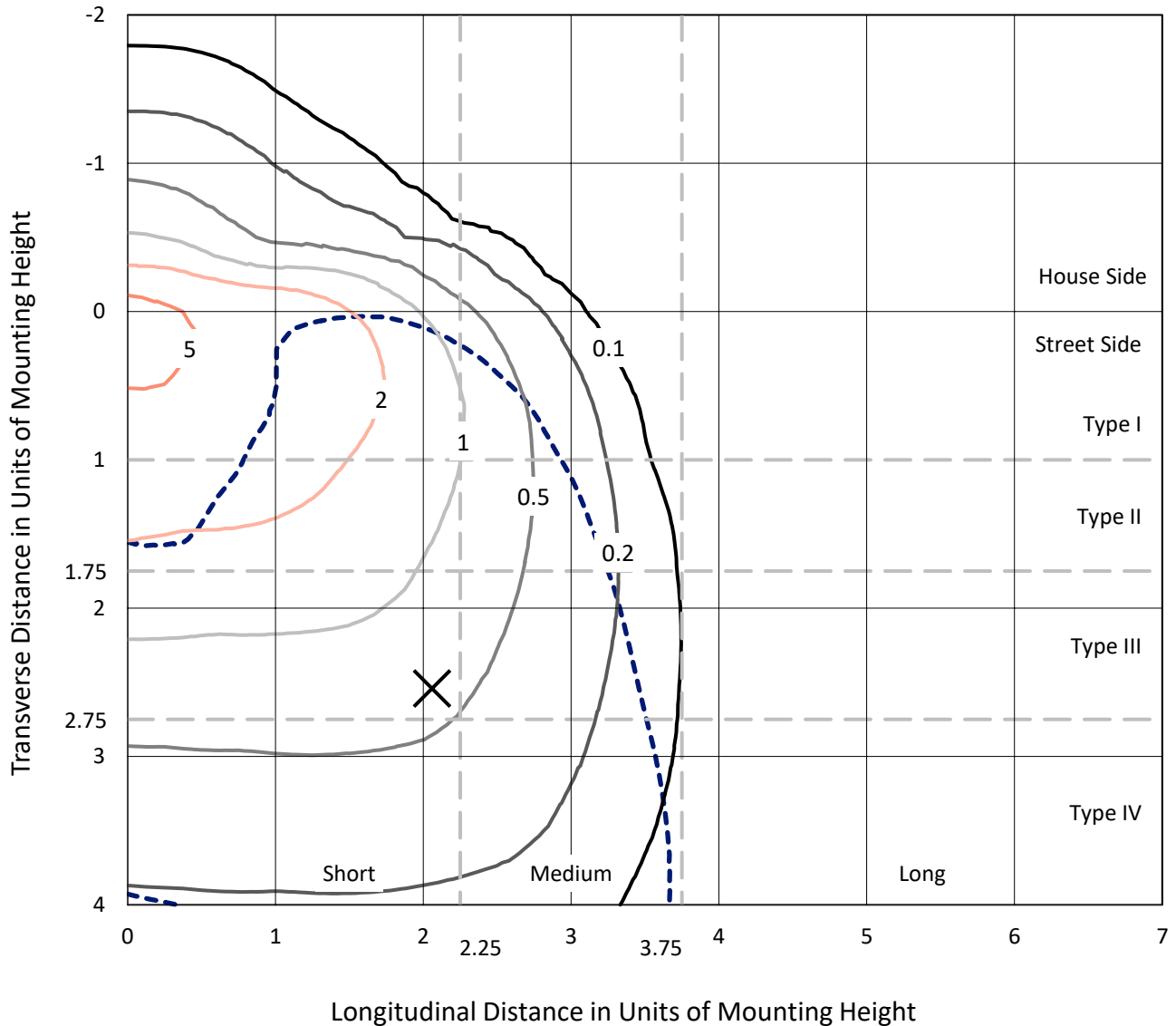
Lumens per Lamp: N/A
Luminaire Lumens: 14938.9 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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

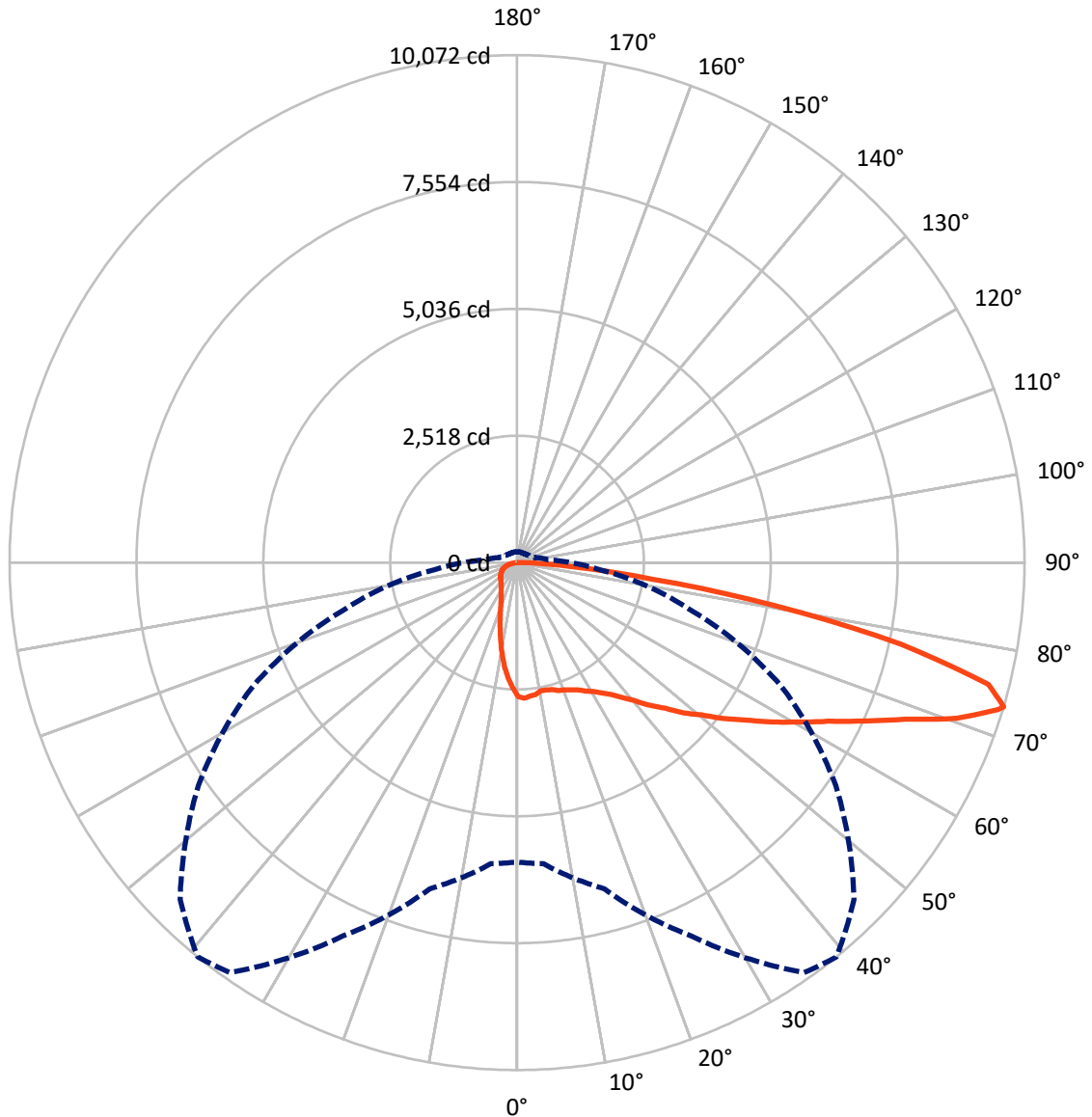
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 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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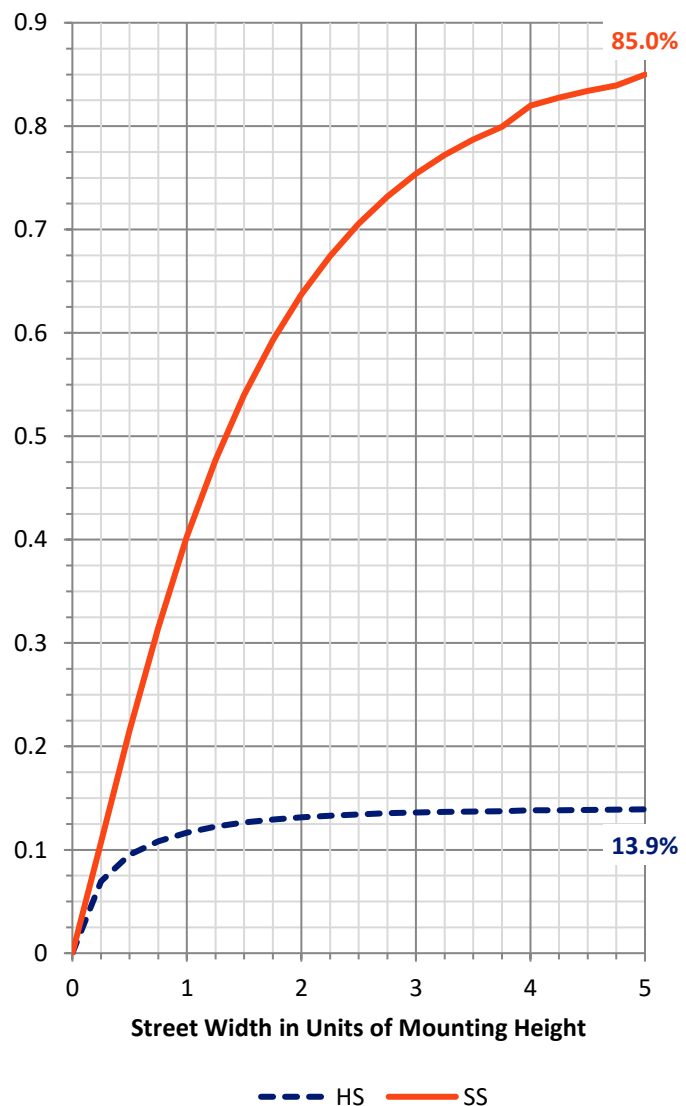
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2100.0	0.0	2100.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	12838.9	0.0	12838.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	14938.9	0.0	14938.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.8	1.5
10°-20°	586.8	3.9
20°-30°	896.7	6.0
30°-40°	1307.5	8.8
40°-50°	1975.7	13.2
50°-60°	2861.0	19.2
60°-70°	3635.0	24.3
70°-80°	2946.7	19.7
80°-90°	498.6	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°	14938.9	100.0
0°-180°	14938.9	100.0

Coefficient of Utilization



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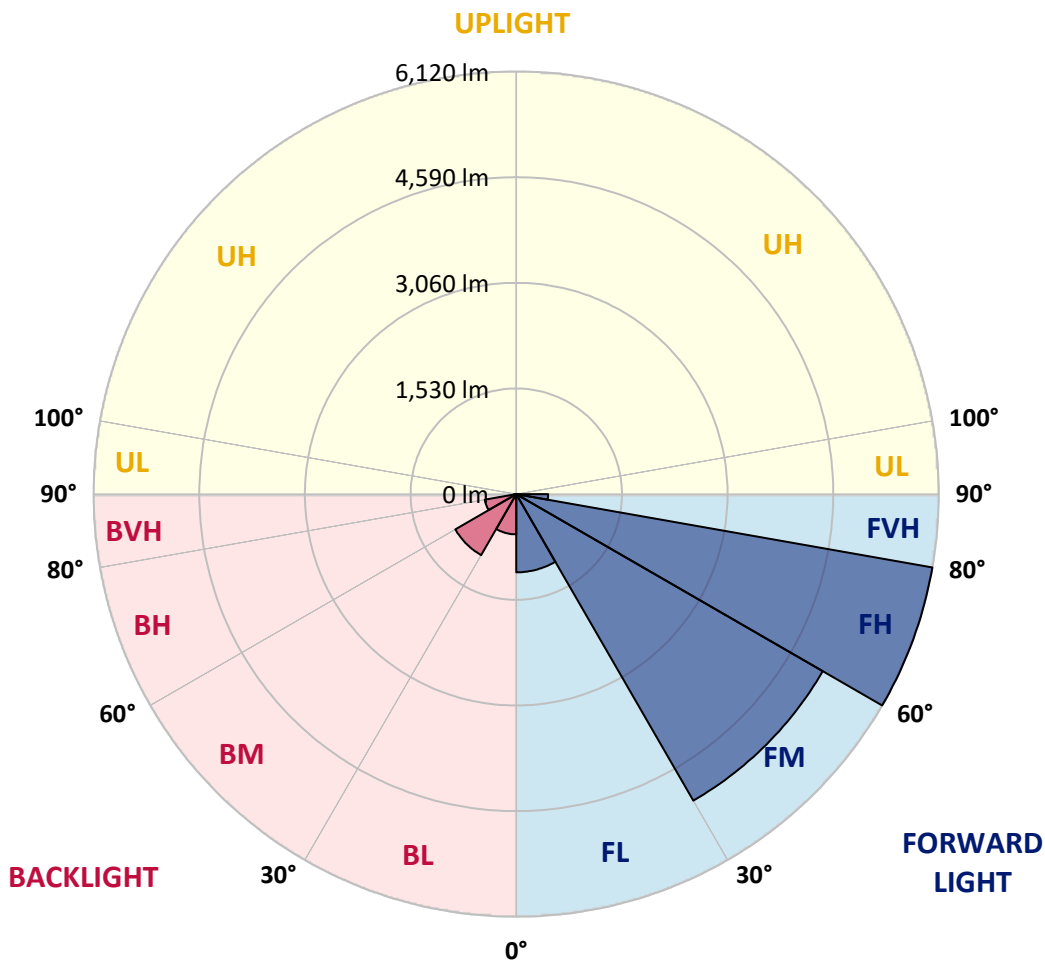
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1132.0	7.6			
FM (30°-60°)	5125.0	34.3			
FH (60°-80°)	6119.9	41.0			G3/7500
FVH (80°-90°)	462.0	3.1			G3/500
BL (0°-30°)	582.4	3.9	B2/1000		
BM (30°-60°)	1019.2	6.8	B2/2500		
BH (60°-80°)	461.9	3.1	B1/500		G1/500
BVH (80°-90°)	36.6	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2659.2	2659.2	2659.2	2659.2	2659.2	2659.2	2659.2	2659.2	2659.2	2659.2	2659.2
2.5°	2722.7	2694.3	2699.3	2689.3	2699.3	2696.0	2691.0	2665.9	2691.0	2665.9	2659.2
5°	2686.0	2686.0	2702.7	2677.6	2680.9	2664.2	2680.9	2662.6	2645.8	2604.1	2592.4
7.5°	2674.3	2672.6	2674.3	2639.2	2655.9	2645.8	2629.1	2609.1	2575.6	2548.9	2510.5
10°	2594.0	2610.7	2592.4	2602.4	2615.8	2585.7	2584.0	2579.0	2563.9	2528.8	2505.4
12.5°	2550.6	2579.0	2589.0	2580.7	2592.4	2595.7	2585.7	2579.0	2560.6	2537.2	2470.3
15°	2569.0	2535.5	2563.9	2619.1	2607.4	2615.8	2617.4	2610.7	2602.4	2558.9	2515.5
17.5°	2574.0	2553.9	2614.1	2625.8	2640.8	2670.9	2650.9	2649.2	2617.4	2587.3	2523.8
20°	2585.7	2577.3	2625.8	2687.6	2689.3	2694.3	2704.3	2679.3	2662.6	2610.7	2513.8
22.5°	2629.1	2657.5	2702.7	2729.4	2744.5	2747.8	2747.8	2697.7	2679.3	2637.5	2560.6
25°	2759.5	2729.4	2792.9	2824.7	2803.0	2797.9	2786.2	2741.1	2721.1	2684.3	2582.3
27.5°	2854.8	2853.1	2889.9	2933.3	2874.8	2886.5	2844.7	2831.4	2786.2	2766.2	2620.8
30°	2985.1	3021.9	3020.2	3033.6	2956.7	2970.1	2916.6	2891.5	2866.5	2878.2	2734.4
32.5°	3152.3	3138.9	3160.6	3150.6	3073.7	3085.4	3021.9	2983.5	2991.8	3026.9	2889.9
35°	3259.3	3245.9	3254.2	3254.2	3230.8	3217.5	3190.7	3140.6	3180.7	3245.9	3063.7
37.5°	3374.6	3391.3	3439.8	3429.7	3399.7	3399.7	3396.3	3361.2	3413.0	3573.5	3341.2
40°	3476.5	3521.7	3551.8	3571.8	3606.9	3606.9	3635.3	3615.3	3708.9	3966.3	3680.5
42.5°	3583.5	3585.2	3749.0	3764.0	3842.6	3876.0	3897.7	3914.5	4089.9	4377.4	4043.1
45°	3720.6	3728.9	3872.7	3988.0	4110.0	4121.7	4203.6	4258.8	4474.4	4827.0	4437.6
47.5°	3901.1	3891.1	4044.8	4228.7	4380.8	4461.0	4559.6	4619.8	4885.5	5315.1	4868.8
50°	4138.4	4108.3	4196.9	4486.1	4664.9	4753.5	4929.0	5029.3	5340.2	5781.4	5164.7
52.5°	4427.6	4377.4	4447.6	4763.5	4964.1	5142.9	5310.1	5422.1	5746.3	6142.4	5383.6
55°	4733.4	4629.8	4649.9	5057.7	5346.9	5515.7	5744.6	5861.6	6192.6	6466.7	5602.6
57.5°	5036.0	4970.8	4930.7	5340.2	5803.1	5965.3	6175.9	6328.0	6608.8	6754.2	5788.1
60°	5290.0	5273.3	5208.1	5778.1	6286.2	6424.9	6645.5	6739.1	6951.4	7019.9	5791.4
62.5°	5499.0	5442.1	5545.8	6130.7	6777.6	6934.7	7177.0	7185.4	7335.8	7185.4	5621.0
65°	5662.7	5666.1	5831.6	6557.0	7345.9	7578.2	7773.7	7752.0	7655.1	7086.8	5218.2
67.5°	5811.5	5875.0	6117.4	7025.0	8076.3	8295.2	8512.5	8225.0	7742.0	6625.5	4430.9
70°	5928.5	5992.0	6503.5	7594.9	8937.0	9258.0	9306.4	8412.2	7342.5	5612.6	3342.8
72.5°	5915.1	6030.5	6722.4	8049.5	9700.9	9978.3	9587.2	7885.7	6117.4	3912.8	1950.5
73°	5943.5	6000.4	6704.0	8176.6	9933.2	10071.9	9456.9	7720.3	5769.7	3510.0	1649.7
75°	5395.3	5587.5	6371.4	7969.3	9684.2	9659.1	8708.1	6433.3	4101.6	1843.6	798.9
77.5°	3991.3	4113.3	5020.9	6553.6	7949.2	7788.8	6568.7	4111.7	1947.2	683.6	431.2
80°	1950.5	2045.8	2660.9	3784.1	5198.1	5211.5	4076.6	2139.4	834.0	386.1	294.2
82.5°	974.4	1031.3	1278.6	1663.1	2557.3	2679.3	2067.5	1216.8	516.5	219.0	167.1
85°	636.8	676.9	787.2	814.0	1084.7	1144.9	962.7	949.4	336.0	118.7	135.4
87.5°	422.9	429.6	483.0	411.2	434.6	417.9	464.7	598.4	98.6	50.1	36.8
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°	2659.2	2659.2	2659.2	2659.2	2659.2	2659.2	2659.2	2659.2	2659.2	2659.2	2659.2
2.5°	2650.9	2627.5	2602.4	2567.3	2542.2	2503.8	2468.7	2453.6	2450.3	2452.0	2435.2
5°	2582.3	2548.9	2498.8	2426.9	2385.1	2321.6	2268.1	2239.7	2209.6	2214.6	2201.3
7.5°	2487.1	2450.3	2373.4	2289.8	2186.2	2096.0	2045.8	1975.6	1935.5	1905.4	1922.1
10°	2457.0	2393.5	2278.1	2162.8	2002.4	1883.7	1768.4	1688.1	1633.0	1579.5	1602.9
12.5°	2441.9	2378.4	2218.0	2047.5	1840.2	1659.7	1497.6	1399.0	1320.4	1273.6	1292.0
15°	2428.6	2350.0	2161.1	1920.5	1688.1	1450.8	1268.6	1138.2	1063.0	1017.9	1022.9
17.5°	2446.9	2335.0	2077.6	1796.8	1521.0	1266.9	1064.7	929.3	852.4	824.0	817.3
20°	2428.6	2318.3	1995.7	1673.1	1353.8	1091.4	897.5	785.6	732.1	708.7	703.7
22.5°	2435.2	2278.1	1910.4	1536.0	1198.4	944.3	785.6	700.3	658.5	646.8	650.2
25°	2467.0	2254.7	1825.2	1385.6	1044.6	835.7	713.7	648.5	618.4	606.7	610.1
27.5°	2490.4	2274.8	1748.3	1243.5	914.3	738.8	653.5	610.1	590.0	581.7	580.0
30°	2548.9	2286.5	1673.1	1116.5	807.3	675.3	611.7	576.6	563.3	558.3	556.6
32.5°	2635.8	2308.2	1586.2	999.5	728.7	615.1	578.3	548.2	544.9	539.9	541.5
35°	2777.9	2383.4	1489.2	899.2	653.5	575.0	543.2	523.2	523.2	523.2	528.2
37.5°	2981.8	2488.7	1402.3	803.9	605.1	539.9	513.1	506.4	503.1	508.1	511.5
40°	3244.2	2615.8	1332.1	728.7	563.3	516.5	493.1	489.7	488.1	486.4	489.7
42.5°	3531.7	2777.9	1271.9	670.2	533.2	491.4	474.7	471.3	464.7	468.0	473.0
45°	3817.5	2978.5	1218.5	623.4	513.1	478.0	454.6	453.0	449.6	447.9	456.3
47.5°	4135.1	3175.7	1201.7	595.0	498.1	458.0	441.3	439.6	429.6	427.9	434.6
50°	4382.4	3321.1	1220.1	581.7	476.4	442.9	431.2	422.9	414.5	406.2	406.2
52.5°	4552.9	3421.4	1233.5	571.6	464.7	422.9	407.8	404.5	396.1	387.8	384.4
55°	4706.7	3481.6	1236.8	573.3	453.0	399.5	389.4	387.8	382.8	369.4	366.0
57.5°	4758.5	3456.5	1170.0	558.3	446.3	384.4	371.1	374.4	367.7	356.0	354.3
60°	4753.5	3282.7	1017.9	538.2	431.2	367.7	351.0	361.0	361.0	347.7	346.0
62.5°	4464.3	2881.5	832.4	499.8	414.5	351.0	332.6	347.7	352.7	344.3	342.6
65°	3864.3	2346.7	695.3	461.3	389.4	332.6	314.2	330.9	339.3	336.0	334.3
67.5°	3197.4	1795.1	578.3	411.2	357.7	307.5	292.5	304.2	309.2	310.9	312.6
70°	2259.8	1195.1	483.0	356.0	314.2	280.8	264.1	265.8	264.1	269.1	269.1
72.5°	1228.5	688.6	392.8	302.5	270.8	244.0	232.3	224.0	224.0	222.3	222.3
73°	1051.3	618.4	374.4	294.2	259.1	237.3	224.0	217.3	217.3	215.6	213.9
75°	590.0	453.0	320.9	252.4	224.0	207.3	197.2	187.2	185.5	185.5	185.5
77.5°	387.8	352.7	255.7	202.2	180.5	165.5	162.1	152.1	152.1	152.1	150.4
80°	290.8	277.5	197.2	153.8	138.7	127.0	123.7	117.0	115.3	108.6	110.3
82.5°	193.9	219.0	143.7	108.6	93.6	86.9	86.9	85.2	80.2	71.9	71.9
85°	153.8	178.8	103.6	66.9	55.2	46.8	48.5	46.8	45.1	36.8	35.1
87.5°	28.4	71.9	30.1	18.4	13.4	8.4	8.4	5.0	3.3	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)