

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: P480884

Luminaire Tested: **IFLD-S-SA2D-740-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480884
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-740-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

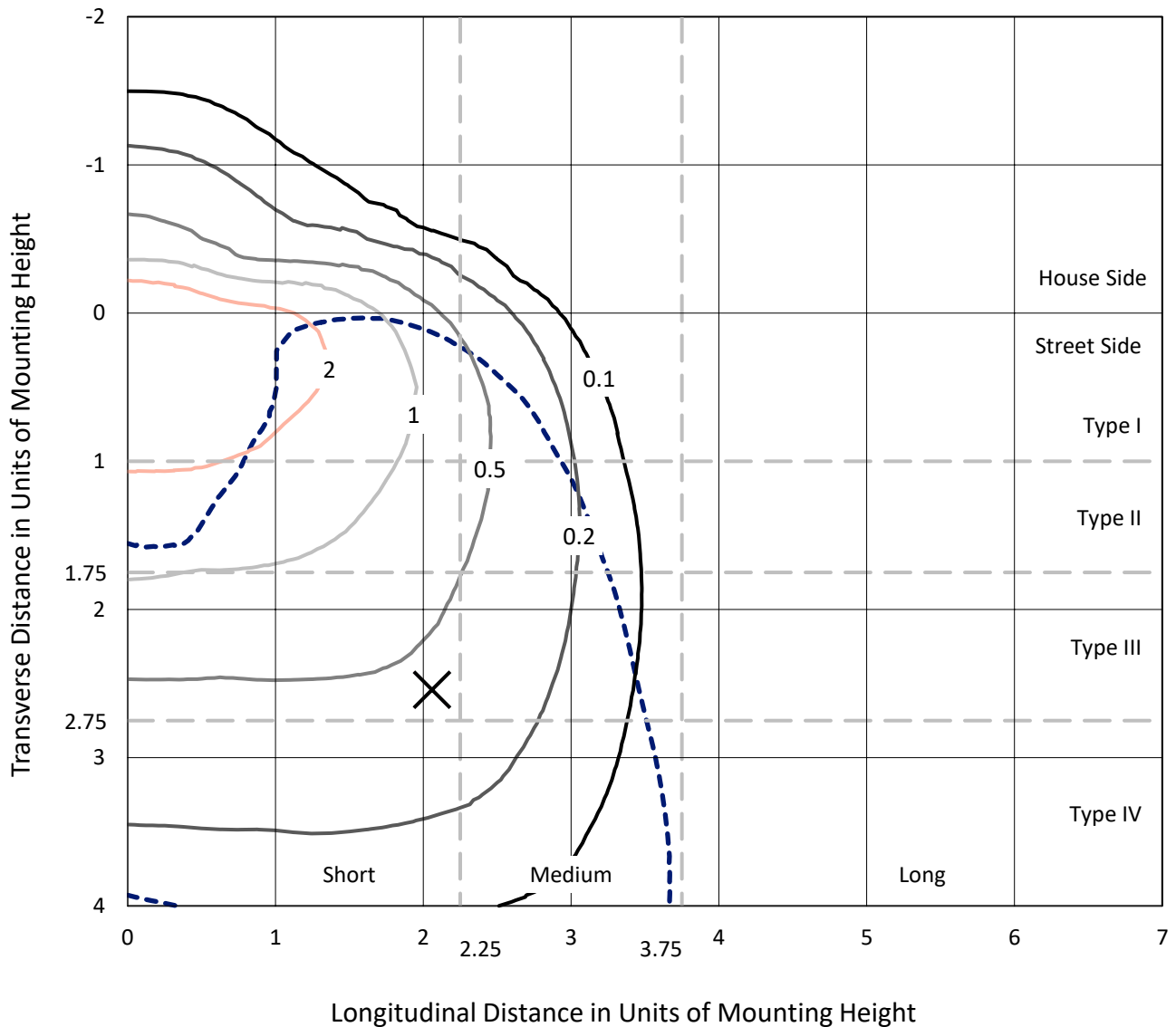
Lumens per Lamp: N/A
Luminaire Lumens: 15127.8 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 123.9
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

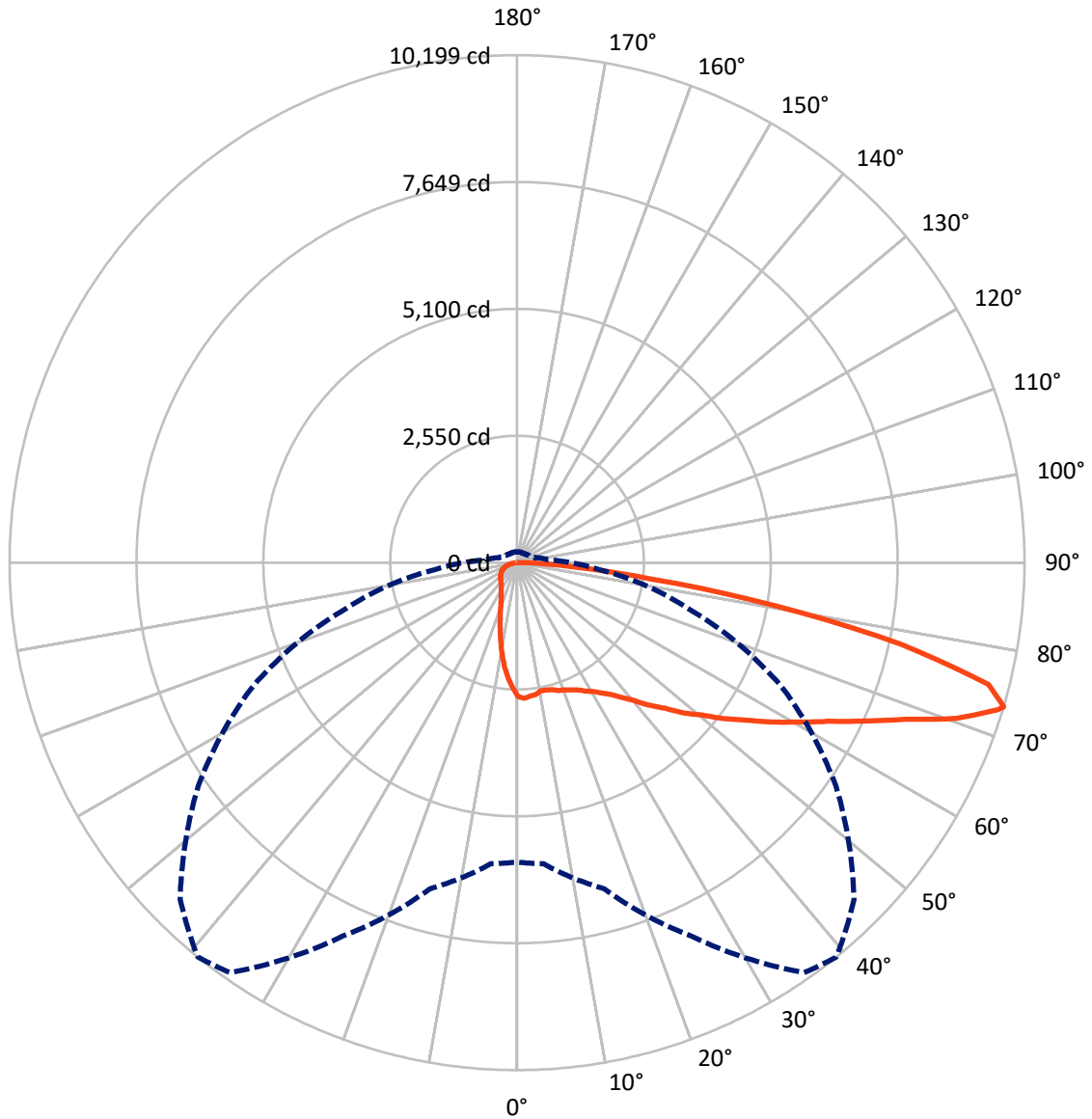
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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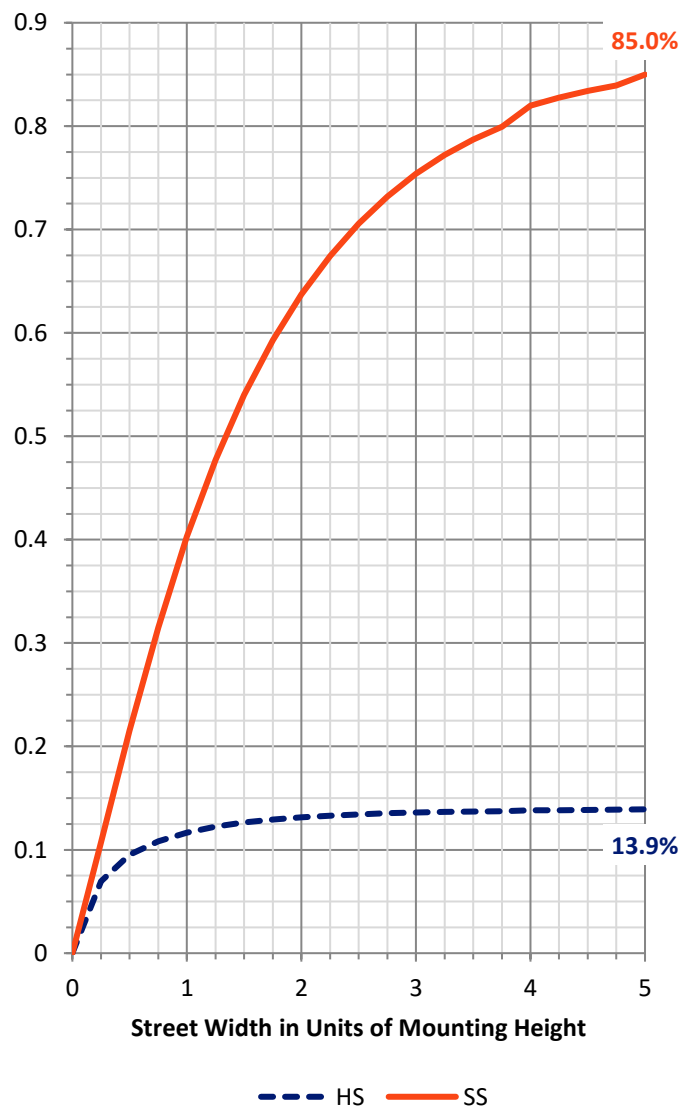
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2126.5	0.0	2126.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	13001.3	0.0	13001.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	15127.8	0.0	15127.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.8	1.5
10°-20°	594.2	3.9
20°-30°	908.1	6.0
30°-40°	1324.0	8.8
40°-50°	2000.7	13.2
50°-60°	2897.2	19.2
60°-70°	3681.0	24.3
70°-80°	2984.0	19.7
80°-90°	504.9	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°	15127.8	100.0
0°-180°	15127.8	100.0

Coefficient of Utilization



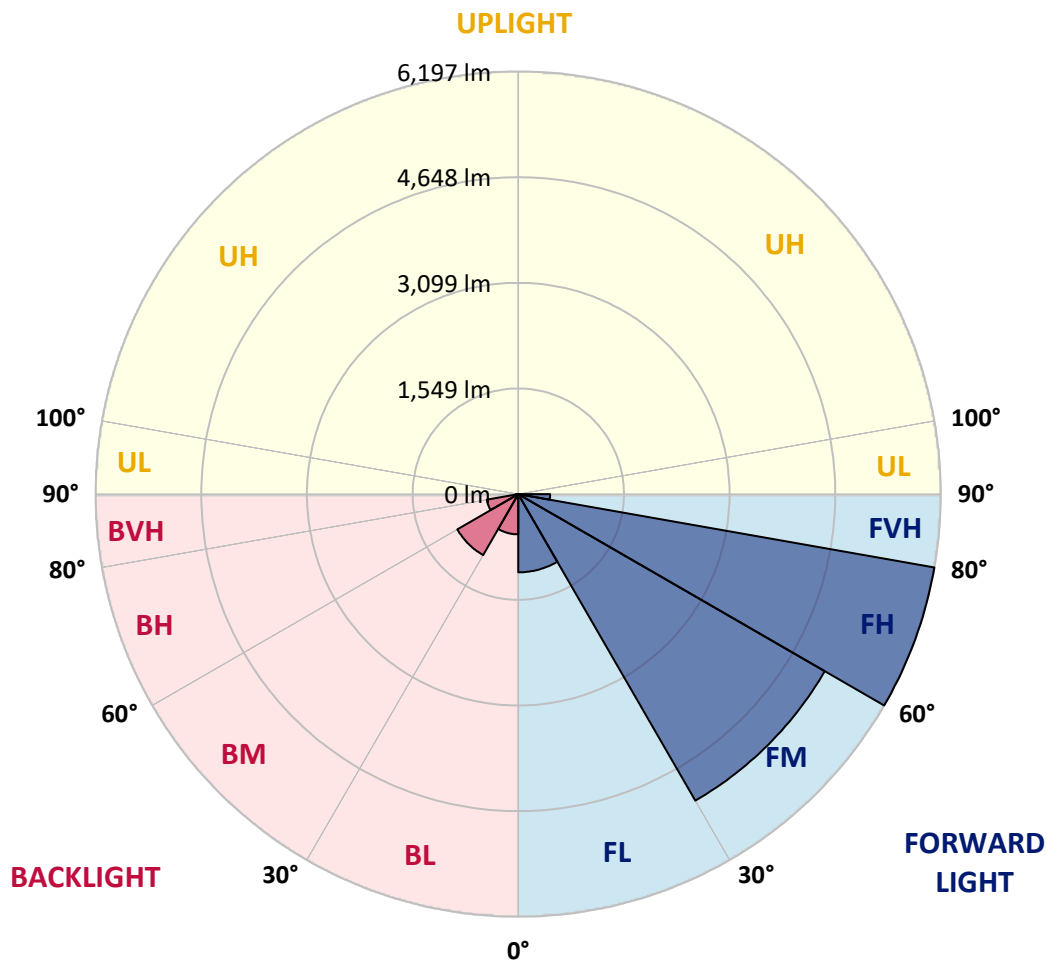
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1146.4	7.6			
FM (30°-60°)	5189.8	34.3			
FH (60°-80°)	6197.3	41.0			G3/7500
FVH (80°-90°)	467.8	3.1			G3/500
BL (0°-30°)	589.7	3.9	B2/1000		
BM (30°-60°)	1032.1	6.8	B2/2500		
BH (60°-80°)	467.7	3.1	B1/500		G1/500
BVH (80°-90°)	37.0	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8
2.5°	2757.2	2728.4	2733.5	2723.3	2733.5	2730.1	2725.0	2699.6	2725.0	2699.6	2692.8
5°	2719.9	2719.9	2736.8	2711.5	2714.8	2697.9	2714.8	2696.2	2679.3	2637.0	2625.1
7.5°	2708.1	2706.4	2708.1	2672.5	2689.5	2679.3	2662.4	2642.1	2608.2	2581.1	2542.2
10°	2626.8	2643.8	2625.1	2635.3	2648.8	2618.4	2616.7	2611.6	2596.4	2560.8	2537.1
12.5°	2582.8	2611.6	2621.8	2613.3	2625.1	2628.5	2618.4	2611.6	2593.0	2569.3	2501.6
15°	2601.4	2567.6	2596.4	2652.2	2640.4	2648.8	2650.5	2643.8	2635.3	2591.3	2547.3
17.5°	2606.5	2586.2	2647.1	2659.0	2674.2	2704.7	2684.4	2682.7	2650.5	2620.1	2555.7
20°	2618.4	2609.9	2659.0	2721.6	2723.3	2728.4	2738.5	2713.2	2696.2	2643.8	2545.6
22.5°	2662.4	2691.1	2736.8	2763.9	2779.2	2782.5	2782.5	2731.8	2713.2	2670.8	2593.0
25°	2794.4	2763.9	2828.2	2860.4	2838.4	2833.3	2821.5	2775.8	2755.5	2718.2	2615.0
27.5°	2890.9	2889.2	2926.4	2970.4	2911.2	2923.0	2880.7	2867.2	2821.5	2801.2	2653.9
30°	3022.9	3060.1	3058.4	3072.0	2994.1	3007.7	2953.5	2928.1	2902.7	2914.6	2769.0
32.5°	3192.1	3178.6	3200.6	3190.4	3112.6	3124.4	3060.1	3021.2	3029.7	3065.2	2926.4
35°	3300.5	3286.9	3295.4	3295.4	3271.7	3258.2	3231.1	3180.3	3220.9	3286.9	3102.4
37.5°	3417.2	3434.2	3483.3	3473.1	3442.6	3442.6	3439.3	3403.7	3456.2	3618.7	3383.4
40°	3520.5	3566.2	3596.7	3617.0	3652.5	3652.5	3681.3	3661.0	3755.8	4016.4	3727.0
42.5°	3628.8	3630.5	3796.4	3811.6	3891.2	3925.0	3947.0	3963.9	4141.7	4432.8	4094.3
45°	3767.6	3776.1	3921.6	4038.4	4162.0	4173.8	4256.8	4312.6	4530.9	4888.1	4493.7
47.5°	3950.4	3940.2	4096.0	4282.1	4436.2	4517.4	4617.3	4678.2	4947.3	5382.3	4930.4
50°	4190.7	4160.3	4250.0	4542.8	4723.9	4813.6	4991.3	5092.9	5407.7	5854.5	5230.0
52.5°	4483.6	4432.8	4503.9	4823.8	5026.9	5208.0	5377.2	5490.6	5819.0	6220.1	5451.7
55°	4793.3	4688.4	4708.7	5121.6	5414.5	5585.4	5817.3	5935.8	6270.9	6548.5	5673.4
57.5°	5099.6	5033.6	4993.0	5407.7	5876.5	6040.7	6254.0	6408.0	6692.3	6839.6	5861.3
60°	5356.9	5340.0	5274.0	5851.1	6365.7	6506.1	6729.6	6824.3	7039.3	7108.7	5864.7
62.5°	5568.5	5510.9	5615.9	6208.3	6863.3	7022.4	7267.8	7276.3	7428.6	7276.3	5692.0
65°	5734.3	5737.7	5905.3	6639.9	7438.7	7674.0	7872.0	7850.0	7751.9	7176.4	5284.1
67.5°	5885.0	5949.3	6194.7	7113.8	8178.4	8400.1	8620.1	8329.0	7839.9	6709.3	4486.9
70°	6003.5	6067.8	6585.7	7690.9	9050.0	9375.0	9424.1	8518.6	7435.4	5683.6	3385.1
72.5°	5989.9	6106.7	6807.4	8151.3	9823.5	10104.5	9708.4	7985.4	6194.7	3962.2	1975.2
73°	6018.7	6076.2	6788.8	8279.9	10058.8	10199.3	9576.4	7817.9	5842.7	3554.3	1670.5
75°	5463.5	5658.2	6452.0	8070.1	9806.6	9781.2	8818.2	6514.6	4153.5	1866.9	809.0
77.5°	4041.8	4165.4	5084.4	6636.5	8049.7	7887.3	6651.7	4163.7	1971.8	692.3	436.7
80°	1975.2	2071.7	2694.5	3831.9	5263.8	5277.4	4128.1	2166.5	844.6	391.0	297.9
82.5°	986.8	1044.3	1294.8	1684.1	2589.6	2713.2	2093.7	1232.2	523.0	221.7	169.3
85°	644.9	685.5	797.2	824.3	1098.5	1159.4	974.9	961.4	340.2	120.2	137.1
87.5°	428.2	435.0	489.1	416.4	440.1	423.1	470.5	605.9	99.9	50.8	37.2
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°	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8
2.5°	2684.4	2660.7	2635.3	2599.8	2574.4	2535.4	2499.9	2484.7	2481.3	2483.0	2466.0
5°	2615.0	2581.1	2530.4	2457.6	2415.3	2350.9	2296.8	2268.0	2237.5	2242.6	2229.1
7.5°	2518.5	2481.3	2403.4	2318.8	2213.8	2122.5	2071.7	2000.6	1960.0	1929.5	1946.4
10°	2488.0	2423.7	2306.9	2190.2	2027.7	1907.5	1790.7	1709.5	1653.6	1599.5	1623.2
12.5°	2472.8	2408.5	2246.0	2073.4	1863.5	1680.7	1516.5	1416.7	1337.1	1289.7	1308.3
15°	2459.3	2379.7	2188.5	1944.7	1709.5	1469.1	1284.6	1152.6	1076.5	1030.8	1035.8
17.5°	2477.9	2364.5	2103.8	1819.5	1540.2	1282.9	1078.2	941.1	863.2	834.4	827.7
20°	2459.3	2347.6	2020.9	1694.2	1371.0	1105.2	908.9	795.5	741.3	717.6	712.6
22.5°	2466.0	2306.9	1934.6	1555.4	1213.6	956.3	795.5	709.2	666.9	655.0	658.4
25°	2498.2	2283.2	1848.3	1403.1	1057.8	846.3	722.7	656.7	626.2	614.4	617.8
27.5°	2521.9	2303.6	1770.4	1259.3	925.8	748.1	661.8	617.8	597.5	589.0	587.3
30°	2581.1	2315.4	1694.2	1130.6	817.5	683.8	619.5	583.9	570.4	565.3	563.6
32.5°	2669.1	2337.4	1606.2	1012.1	737.9	622.9	585.6	555.2	551.8	546.7	548.4
35°	2813.0	2413.6	1508.1	910.6	661.8	582.2	550.1	529.8	529.8	529.8	534.8
37.5°	3019.5	2520.2	1420.0	814.1	612.7	546.7	519.6	512.8	509.5	514.5	517.9
40°	3285.2	2648.8	1349.0	737.9	570.4	523.0	499.3	495.9	494.2	492.5	495.9
42.5°	3576.3	2813.0	1288.0	678.7	539.9	497.6	480.7	477.3	470.5	473.9	479.0
45°	3865.8	3016.1	1233.9	631.3	519.6	484.1	460.4	458.7	455.3	453.6	462.1
47.5°	4187.4	3215.8	1216.9	602.5	504.4	463.8	446.8	445.1	435.0	433.3	440.1
50°	4437.9	3363.1	1235.6	589.0	482.4	448.5	436.7	428.2	419.8	411.3	411.3
52.5°	4610.5	3464.6	1249.1	578.9	470.5	428.2	413.0	409.6	401.1	392.7	389.3
55°	4766.2	3525.6	1252.5	580.5	458.7	404.5	394.4	392.7	387.6	374.1	370.7
57.5°	4818.7	3500.2	1184.8	565.3	451.9	389.3	375.7	379.1	372.4	360.5	358.8
60°	4813.6	3324.2	1030.8	545.0	436.7	372.4	355.4	365.6	365.6	352.0	350.4
62.5°	4520.8	2917.9	842.9	506.1	419.8	355.4	336.8	352.0	357.1	348.7	347.0
65°	3913.2	2376.3	704.1	467.1	394.4	336.8	318.2	335.1	343.6	340.2	338.5
67.5°	3237.8	1817.8	585.6	416.4	362.2	311.4	296.2	308.0	313.1	314.8	316.5
70°	2288.3	1210.2	489.1	360.5	318.2	284.3	267.4	269.1	267.4	272.5	272.5
72.5°	1244.0	697.3	397.7	306.4	274.2	247.1	235.3	226.8	226.8	225.1	225.1
73°	1064.6	626.2	379.1	297.9	262.3	240.3	226.8	220.0	220.0	218.3	216.6
75°	597.5	458.7	325.0	255.6	226.8	209.9	199.7	189.6	187.9	187.9	187.9
77.5°	392.7	357.1	259.0	204.8	182.8	167.6	164.2	154.0	154.0	154.0	152.3
80°	294.5	281.0	199.7	155.7	140.5	128.6	125.2	118.5	116.8	110.0	111.7
82.5°	196.3	221.7	145.6	110.0	94.8	88.0	88.0	86.3	81.2	72.8	72.8
85°	155.7	181.1	104.9	67.7	55.9	47.4	49.1	47.4	45.7	37.2	35.5
87.5°	28.8	72.8	30.5	18.6	13.5	8.5	8.5	5.1	3.4	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)