

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: P480844

Luminaire Tested: **IFLD-S-SA2C-735-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480844
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-735-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

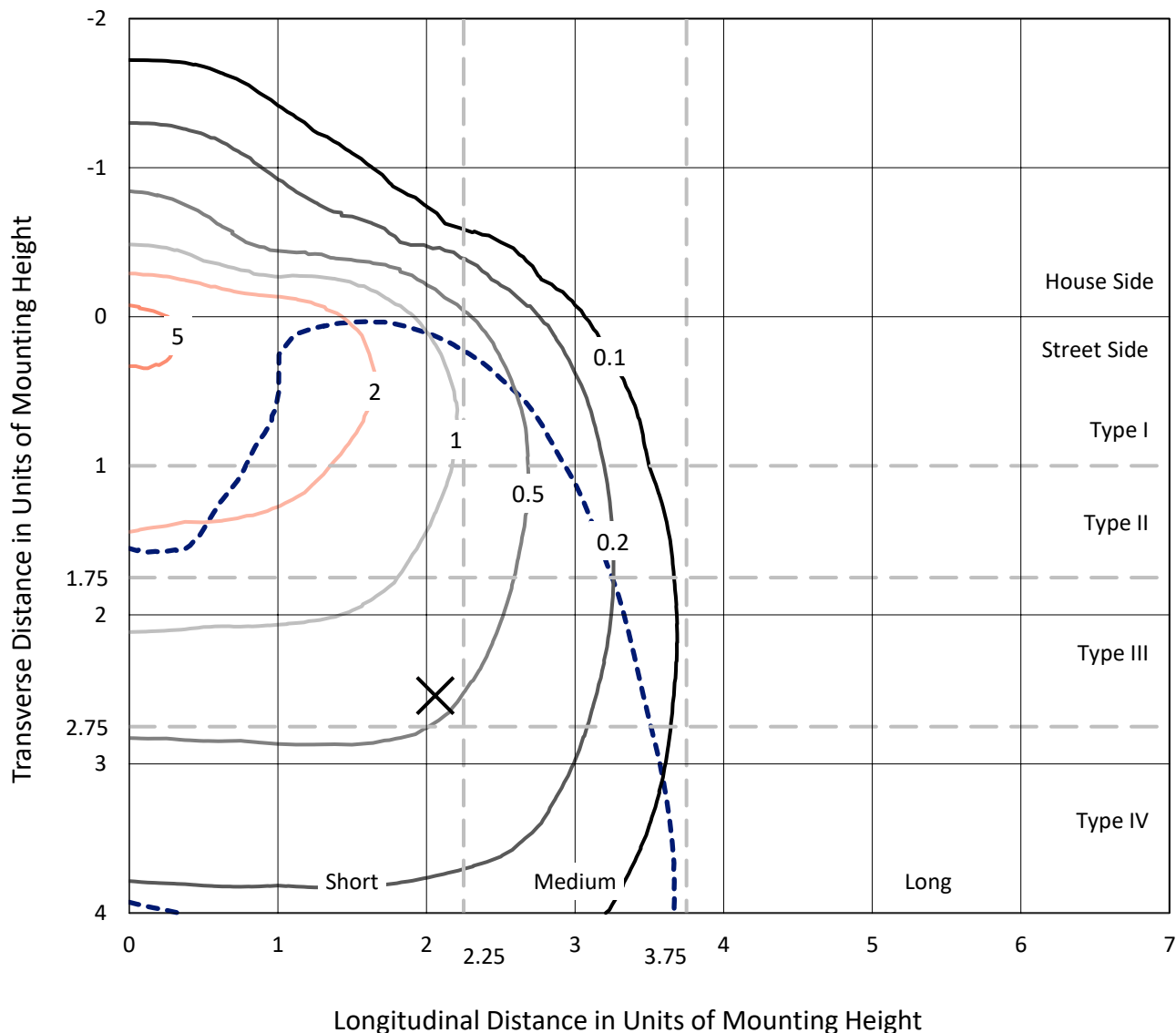
Lumens per Lamp: N/A
Luminaire Lumens: 13560 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 108.2
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

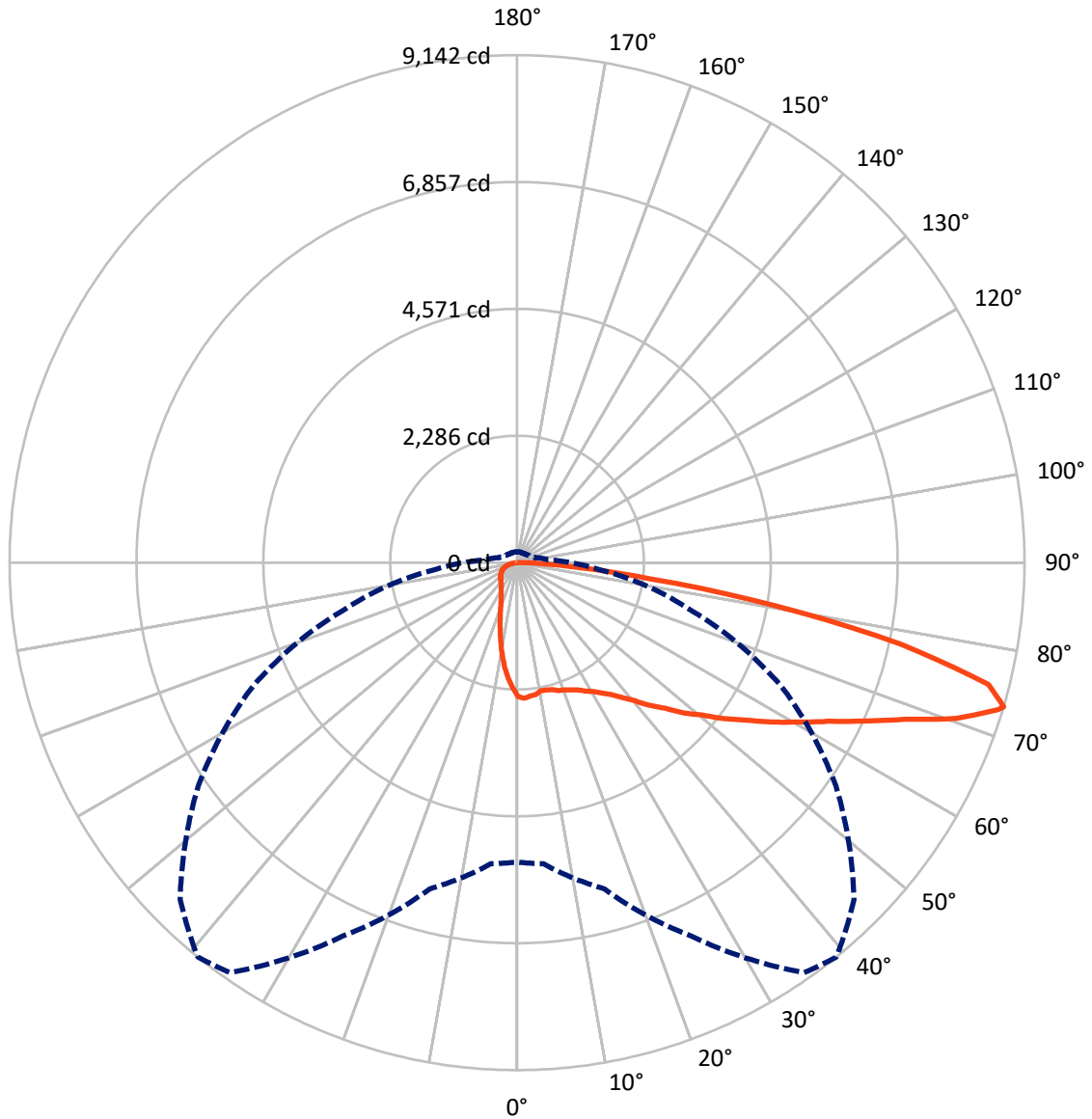
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 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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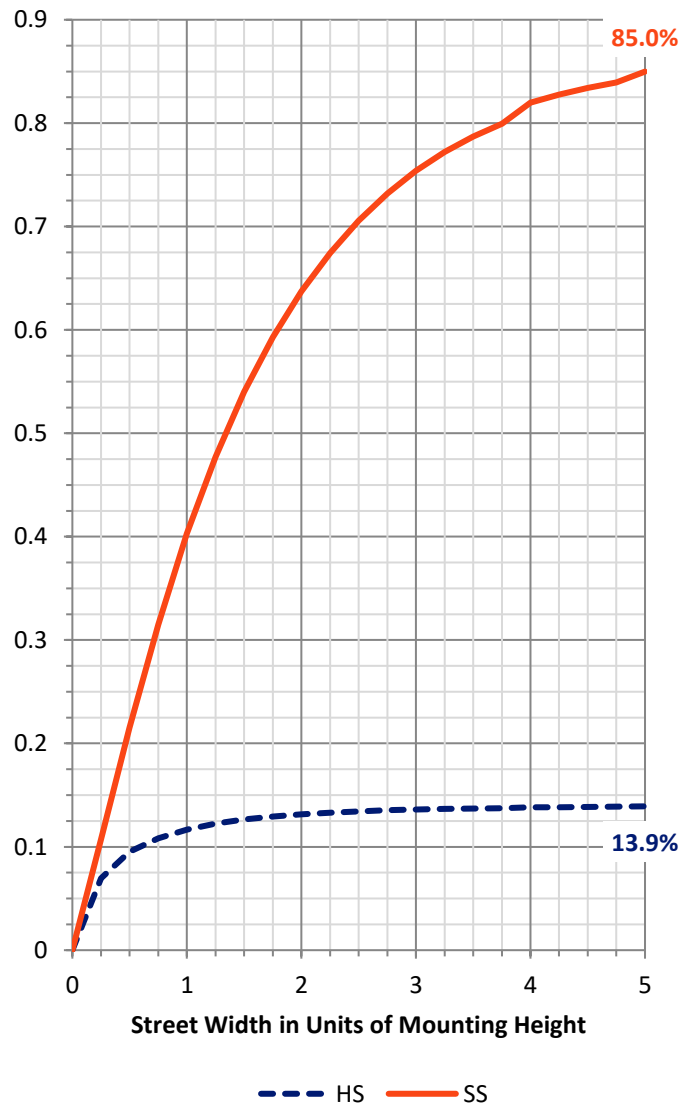
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1906.2	0.0	1906.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	11653.8	0.0	11653.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	13560.0	0.0	13560.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.5	1.5
10°-20°	532.7	3.9
20°-30°	814.0	6.0
30°-40°	1186.8	8.8
40°-50°	1793.4	13.2
50°-60°	2596.9	19.2
60°-70°	3299.5	24.3
70°-80°	2674.7	19.7
80°-90°	452.6	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°	13560.0	100.0
0°-180°	13560.0	100.0

Coefficient of Utilization



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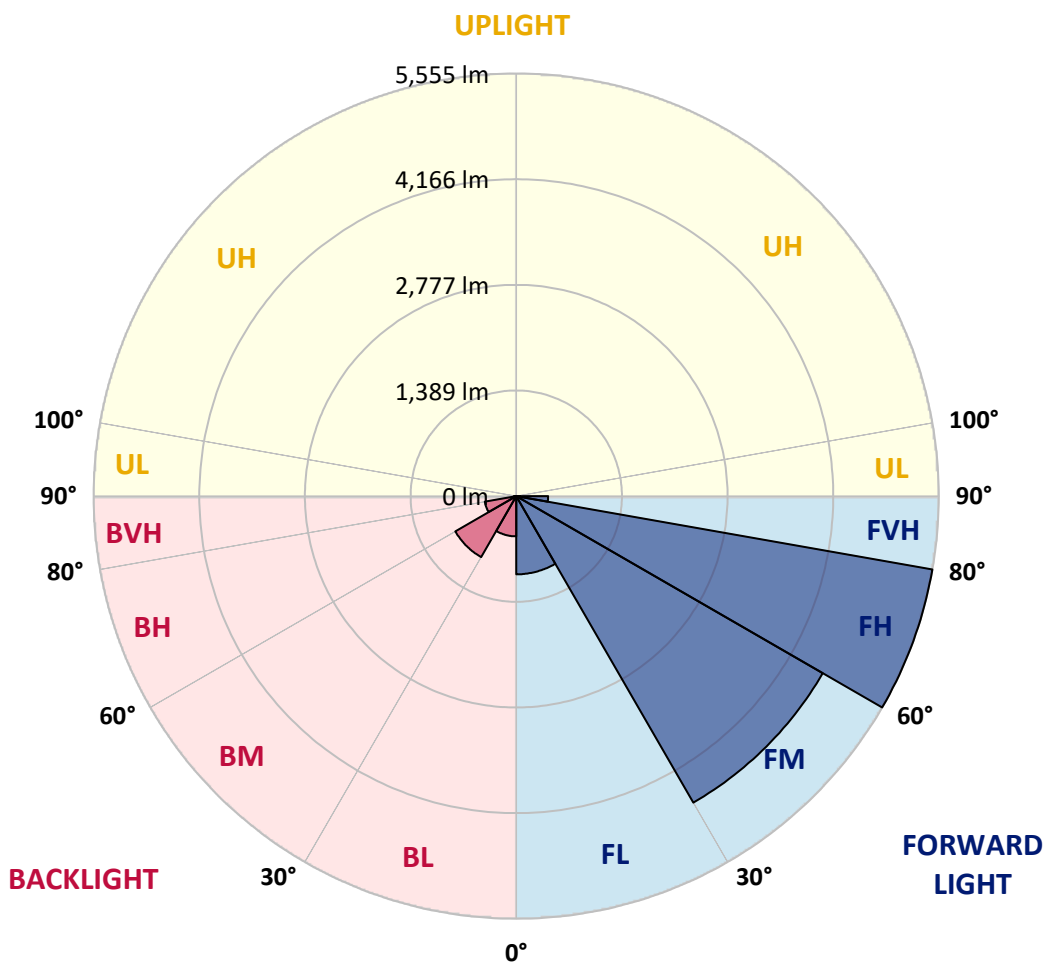
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1027.5	7.6			
FM (30°-60°)	4652.0	34.3			
FH (60°-80°)	5555.0	41.0			G3/7500
FVH (80°-90°)	419.3	3.1			G3/500
BL (0°-30°)	528.6	3.9	B2/1000		
BM (30°-60°)	925.1	6.8	B1/1000		
BH (60°-80°)	419.2	3.1	B1/500		G1/500
BVH (80°-90°)	33.2	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2413.8	2413.8	2413.8	2413.8	2413.8	2413.8	2413.8	2413.8	2413.8	2413.8	2413.8
2.5°	2471.4	2445.6	2450.2	2441.1	2450.2	2447.1	2442.6	2419.8	2442.6	2419.8	2413.8
5°	2438.0	2438.0	2453.2	2430.4	2433.5	2418.3	2433.5	2416.8	2401.6	2363.7	2353.1
7.5°	2427.4	2425.9	2427.4	2395.6	2410.7	2401.6	2386.5	2368.2	2337.9	2313.6	2278.7
10°	2354.6	2369.8	2353.1	2362.2	2374.3	2347.0	2345.5	2340.9	2327.3	2295.4	2274.2
12.5°	2315.1	2340.9	2350.0	2342.5	2353.1	2356.1	2347.0	2340.9	2324.2	2303.0	2242.3
15°	2331.8	2301.5	2327.3	2377.3	2366.7	2374.3	2375.8	2369.8	2362.2	2322.7	2283.3
17.5°	2336.4	2318.2	2372.8	2383.4	2397.1	2424.4	2406.2	2404.7	2375.8	2348.5	2290.9
20°	2347.0	2339.4	2383.4	2439.6	2441.1	2445.6	2454.7	2432.0	2416.8	2369.8	2281.8
22.5°	2386.5	2412.2	2453.2	2477.5	2491.1	2494.2	2494.2	2448.7	2432.0	2394.0	2324.2
25°	2504.8	2477.5	2535.1	2564.0	2544.2	2539.7	2529.1	2488.1	2469.9	2436.5	2344.0
27.5°	2591.3	2589.7	2623.1	2662.6	2609.5	2620.1	2582.2	2570.0	2529.1	2510.9	2378.9
30°	2709.6	2743.0	2741.5	2753.6	2683.8	2695.9	2647.4	2624.6	2601.9	2612.5	2482.0
32.5°	2861.3	2849.2	2868.9	2859.8	2790.0	2800.6	2743.0	2708.1	2715.7	2747.5	2623.1
35°	2958.4	2946.3	2953.9	2953.9	2932.6	2920.5	2896.2	2850.7	2887.1	2946.3	2780.9
37.5°	3063.1	3078.3	3122.3	3113.2	3085.9	3085.9	3082.8	3051.0	3098.0	3243.6	3032.8
40°	3155.6	3196.6	3223.9	3242.1	3274.0	3274.0	3299.8	3281.6	3366.5	3600.2	3340.7
42.5°	3252.7	3254.3	3402.9	3416.6	3487.9	3518.2	3538.0	3553.1	3712.4	3973.4	3669.9
45°	3377.1	3384.7	3515.2	3619.9	3730.6	3741.3	3815.6	3865.7	4061.4	4381.5	4028.0
47.5°	3541.0	3531.9	3671.5	3838.3	3976.4	4049.2	4138.7	4193.4	4434.6	4824.5	4419.4
50°	3756.4	3729.1	3809.5	4072.0	4234.3	4314.7	4474.0	4565.1	4847.2	5247.8	4687.9
52.5°	4018.9	3973.4	4037.1	4323.8	4505.9	4668.2	4819.9	4921.6	5215.9	5575.5	4886.7
55°	4296.5	4202.5	4220.7	4590.8	4853.3	5006.5	5214.4	5320.6	5621.0	5869.8	5085.4
57.5°	4571.1	4512.0	4475.5	4847.2	5267.5	5414.7	5605.8	5743.9	5998.7	6130.7	5253.8
60°	4801.7	4786.6	4727.4	5244.7	5705.9	5831.9	6032.1	6117.1	6309.8	6372.0	5256.9
62.5°	4991.4	4939.8	5033.8	5564.8	6152.0	6294.6	6514.6	6522.2	6658.7	6522.2	5102.1
65°	5140.0	5143.1	5293.3	5951.7	6667.8	6878.7	7056.2	7036.5	6948.5	6432.6	4736.5
67.5°	5275.1	5332.7	5552.7	6376.5	7330.8	7529.5	7726.8	7465.8	7027.4	6013.9	4021.9
70°	5381.3	5438.9	5903.2	6893.9	8112.1	8403.4	8447.4	7635.7	6664.8	5094.5	3034.3
72.5°	5369.1	5473.8	6101.9	7306.5	8805.4	9057.3	8702.3	7157.8	5552.7	3551.6	1770.5
73°	5394.9	5446.5	6085.2	7421.8	9016.3	9142.2	8583.9	7007.6	5237.1	3186.0	1497.4
75°	4897.3	5071.8	5783.3	7233.7	8790.3	8767.5	7904.3	5839.4	3723.0	1673.4	725.2
77.5°	3622.9	3733.7	4557.5	5948.7	7215.5	7069.8	5962.3	3732.1	1767.5	620.5	391.4
80°	1770.5	1857.0	2415.3	3434.8	4718.3	4730.4	3700.3	1941.9	757.0	350.5	267.0
82.5°	884.5	936.1	1160.6	1509.5	2321.2	2432.0	1876.7	1104.5	468.8	198.7	151.7
85°	578.0	614.4	714.6	738.8	984.6	1039.2	873.9	861.7	304.9	107.7	122.9
87.5°	383.8	389.9	438.5	373.2	394.5	379.3	421.8	543.1	89.5	45.5	33.4
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°	2413.8	2413.8	2413.8	2413.8	2413.8	2413.8	2413.8	2413.8	2413.8	2413.8	2413.8
2.5°	2406.2	2384.9	2362.2	2330.3	2307.6	2272.7	2240.8	2227.2	2224.1	2225.6	2210.5
5°	2344.0	2313.6	2268.1	2202.9	2164.9	2107.3	2058.8	2033.0	2005.7	2010.2	1998.1
7.5°	2257.5	2224.1	2154.3	2078.5	1984.4	1902.5	1857.0	1793.3	1756.8	1729.5	1744.7
10°	2230.2	2172.5	2067.9	1963.2	1817.5	1709.8	1605.1	1532.3	1482.2	1433.7	1454.9
12.5°	2216.5	2158.9	2013.2	1858.5	1670.4	1506.5	1359.4	1269.8	1198.5	1156.1	1172.7
15°	2204.4	2133.1	1961.7	1743.2	1532.3	1316.9	1151.5	1033.2	964.9	923.9	928.5
17.5°	2221.1	2119.4	1885.8	1630.9	1380.6	1150.0	966.4	843.5	773.7	747.9	741.9
20°	2204.4	2104.3	1811.5	1518.7	1228.9	990.7	814.7	713.1	664.5	643.3	638.7
22.5°	2210.5	2067.9	1734.1	1394.2	1087.8	857.2	713.1	635.7	597.8	587.1	590.2
25°	2239.3	2046.6	1656.7	1257.7	948.2	758.6	647.8	588.6	561.3	550.7	553.8
27.5°	2260.5	2064.8	1586.9	1128.7	829.9	670.6	593.2	553.8	535.5	528.0	526.4
30°	2313.6	2075.4	1518.7	1013.4	732.8	612.9	555.3	523.4	511.3	506.7	505.2
32.5°	2392.5	2095.2	1439.8	907.2	661.5	558.3	524.9	497.6	494.6	490.0	491.6
35°	2521.5	2163.4	1351.8	816.2	593.2	521.9	493.1	474.9	474.9	474.9	479.4
37.5°	2706.6	2259.0	1272.9	729.7	549.2	490.0	465.8	459.7	456.7	461.2	464.2
40°	2944.8	2374.3	1209.2	661.5	511.3	468.8	447.6	444.5	443.0	441.5	444.5
42.5°	3205.7	2521.5	1154.5	608.4	484.0	446.0	430.9	427.8	421.8	424.8	429.3
45°	3465.1	2703.5	1106.0	565.9	465.8	433.9	412.7	411.1	408.1	406.6	414.2
47.5°	3753.4	2882.6	1090.8	540.1	452.1	415.7	400.5	399.0	389.9	388.4	394.5
50°	3977.9	3014.5	1107.5	528.0	432.4	402.0	391.4	383.8	376.2	368.7	368.7
52.5°	4132.7	3105.6	1119.6	518.9	421.8	383.8	370.2	367.1	359.6	352.0	348.9
55°	4272.2	3160.2	1122.7	520.4	411.1	362.6	353.5	352.0	347.4	335.3	332.3
57.5°	4319.3	3137.4	1062.0	506.7	405.1	348.9	336.8	339.8	333.8	323.1	321.6
60°	4314.7	2979.7	923.9	488.5	391.4	333.8	318.6	327.7	327.7	315.6	314.0
62.5°	4052.3	2615.5	755.5	453.6	376.2	318.6	301.9	315.6	320.1	312.5	311.0
65°	3507.6	2130.1	631.1	418.7	353.5	301.9	285.2	300.4	308.0	304.9	303.4
67.5°	2902.3	1629.4	524.9	373.2	324.7	279.2	265.5	276.1	280.7	282.2	283.7
70°	2051.2	1084.8	438.5	323.1	285.2	254.9	239.7	241.2	239.7	244.3	244.3
72.5°	1115.1	625.1	356.5	274.6	245.8	221.5	210.9	203.3	203.3	201.8	201.8
73°	954.3	561.3	339.8	267.0	235.2	215.4	203.3	197.2	197.2	195.7	194.2
75°	535.5	411.1	291.3	229.1	203.3	188.1	179.0	169.9	168.4	168.4	168.4
77.5°	352.0	320.1	232.1	183.6	163.9	150.2	147.2	138.1	138.1	138.1	136.5
80°	264.0	251.8	179.0	139.6	125.9	115.3	112.3	106.2	104.7	98.6	100.1
82.5°	176.0	198.7	130.5	98.6	85.0	78.9	78.9	77.4	72.8	65.2	65.2
85°	139.6	162.3	94.1	60.7	50.1	42.5	44.0	42.5	41.0	33.4	31.9
87.5°	25.8	65.2	27.3	16.7	12.1	7.6	7.6	4.6	3.0	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)