

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P387057

Luminaire Tested: GAW-SA2D-735-U-SL2

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-735-U-SL2
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14901.6 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

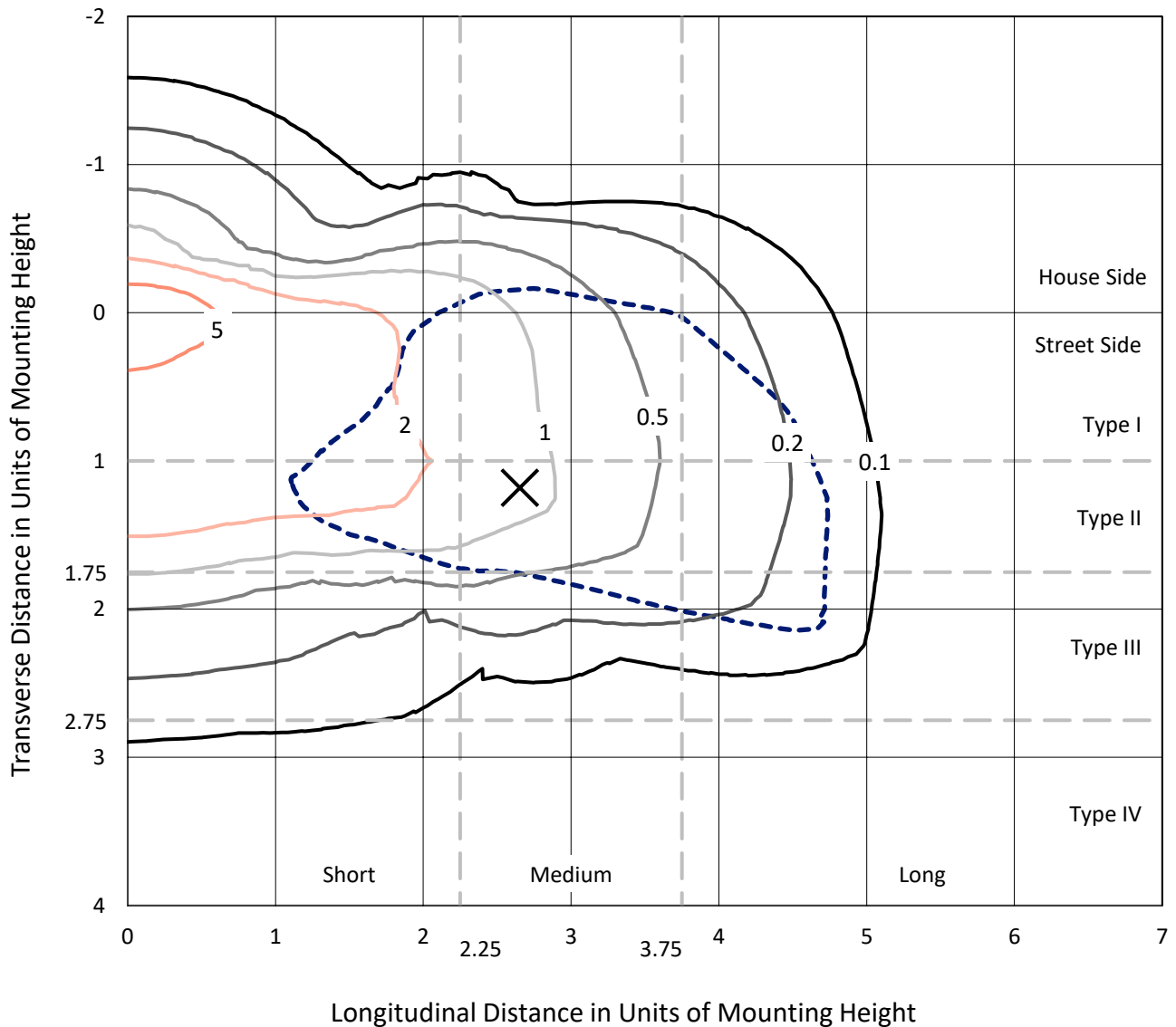
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

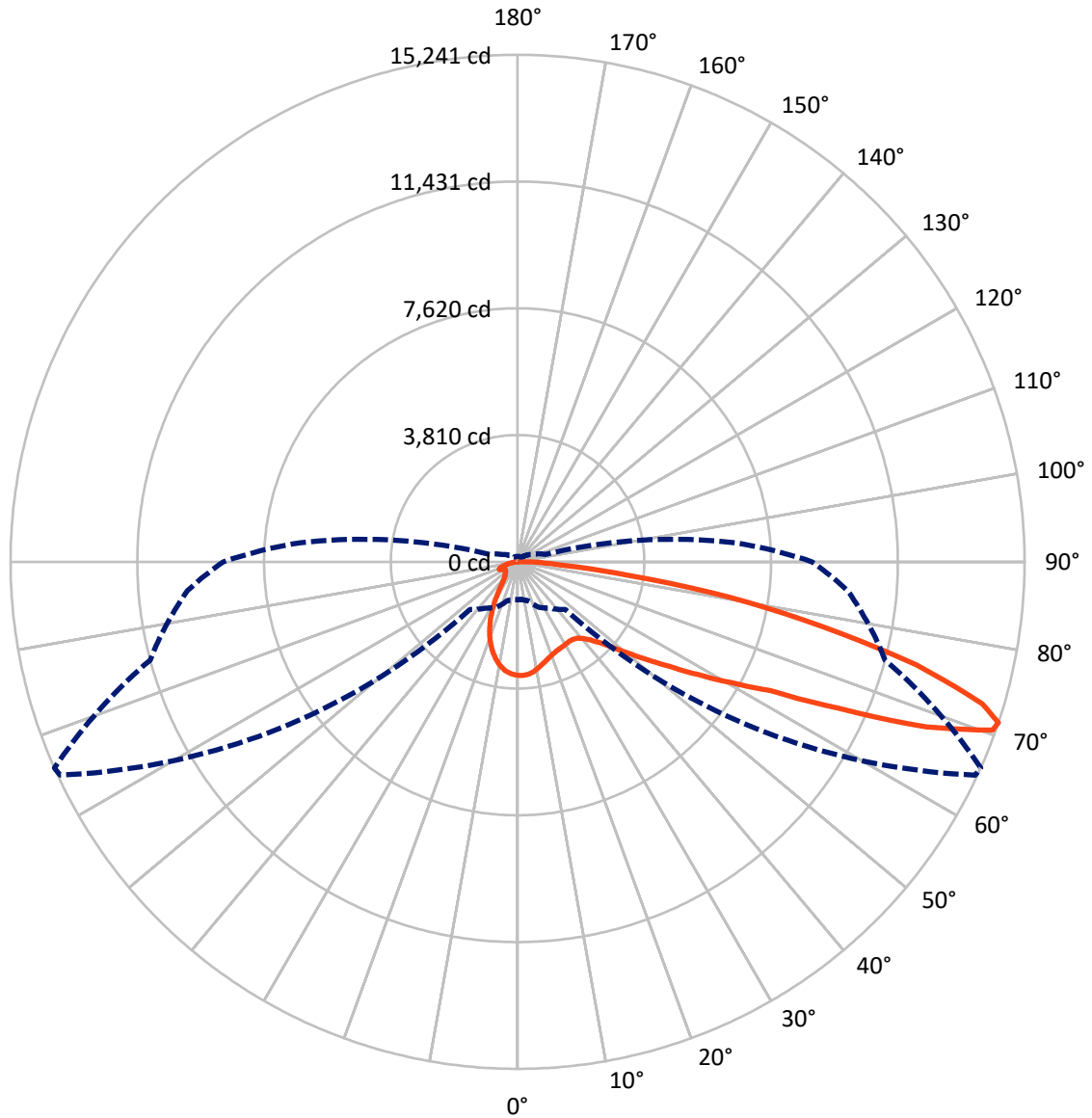
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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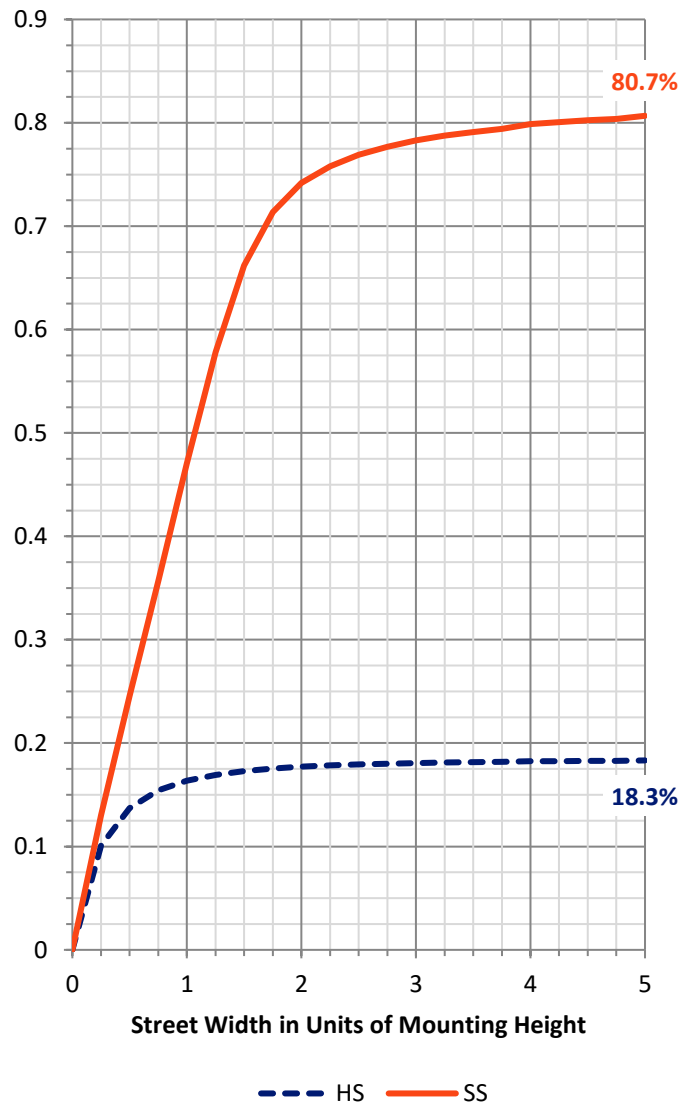
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2761.7	0.0	2761.7
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	12139.9	0.0	12139.9
	% Fixture	81.5	0.0	81.5
Total	Lumens	14901.6	0.0	14901.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.5	2.0
10°-20°	720.7	4.8
20°-30°	968.1	6.5
30°-40°	1273.5	8.5
40°-50°	1852.6	12.4
50°-60°	2893.9	19.4
60°-70°	3625.1	24.3
70°-80°	2765.1	18.6
80°-90°	502.1	3.4
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°	14901.6	100.0
0°-180°	14901.6	100.0

Coefficient of Utilization

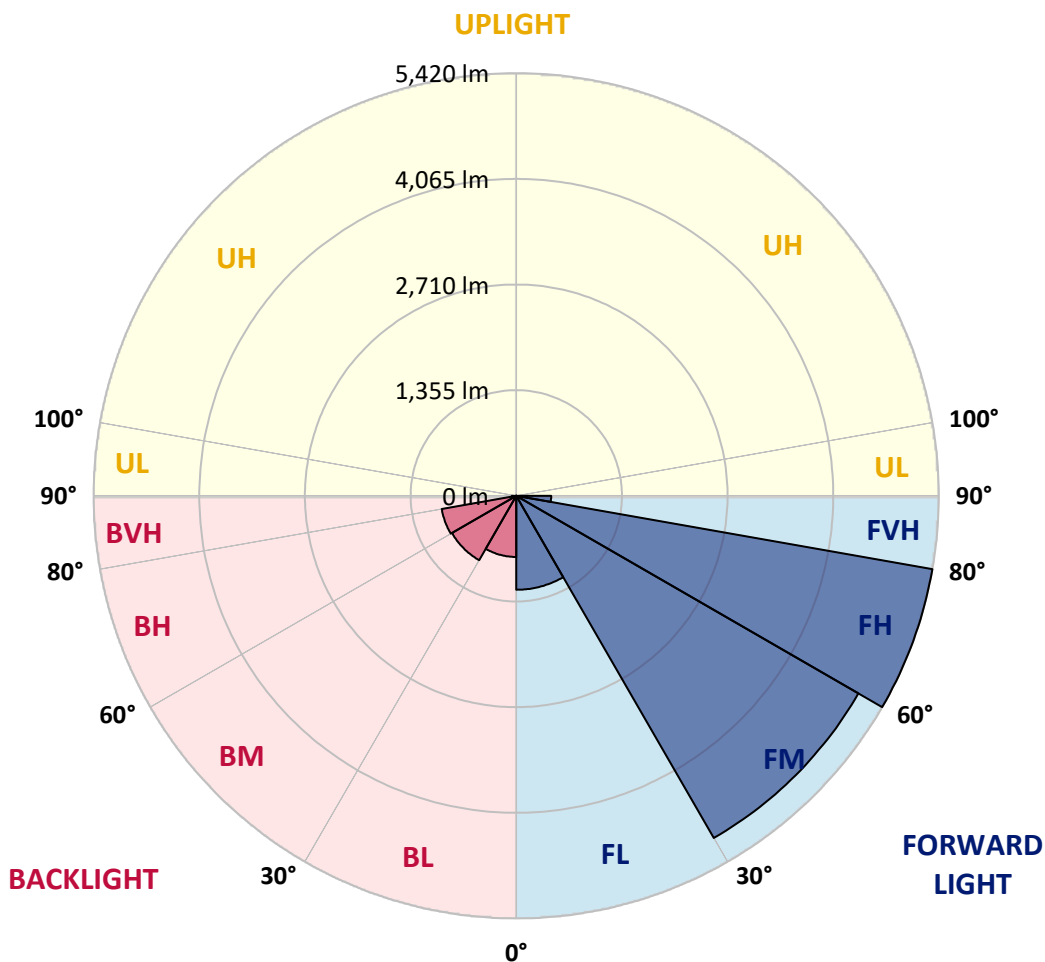


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1205.0	8.1			
FM (30°-60°)	5067.3	34.0			
FH (60°-80°)	5419.9	36.4			G3/7500
FVH (80°-90°)	447.8	3.0			G3/500
BL (0°-30°)	784.2	5.3	B2/1000		
BM (30°-60°)	952.7	6.4	B1/1000		
BH (60°-80°)	970.4	6.5	B2/1000		G2/1000
BVH (80°-90°)	54.3	0.4			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7
2.5°	3350.3	3345.3	3360.7	3376.7	3382.8	3393.1	3408.5	3417.2	3416.8	3418.3	3413.2
5°	3128.1	3121.4	3152.3	3177.5	3225.9	3280.5	3346.8	3394.1	3395.2	3421.9	3429.1
7.5°	2917.7	2913.1	2948.6	2989.2	3045.3	3128.7	3236.2	3338.0	3344.2	3416.8	3441.9
10°	2748.9	2747.9	2782.4	2826.6	2892.0	2985.1	3108.5	3257.8	3267.0	3392.1	3444.0
12.5°	2617.2	2619.3	2649.1	2699.5	2768.5	2865.7	2999.5	3167.7	3182.7	3353.0	3432.2
15°	2520.0	2528.2	2552.4	2603.3	2671.3	2770.0	2907.4	3084.4	3107.0	3309.2	3425.5
17.5°	2464.4	2473.7	2490.7	2532.9	2596.7	2691.8	2822.0	3015.9	3036.6	3275.8	3426.1
20°	2448.0	2455.7	2465.4	2491.2	2545.2	2631.6	2754.6	2954.2	2976.4	3249.0	3431.1
22.5°	2480.4	2486.0	2487.0	2485.0	2518.0	2588.4	2705.7	2908.9	2932.6	3231.5	3434.8
25°	2549.8	2557.6	2551.9	2532.9	2522.1	2565.3	2680.6	2879.1	2902.8	3218.6	3427.6
27.5°	2654.3	2655.3	2650.7	2626.0	2575.1	2567.8	2672.8	2861.6	2884.2	3203.7	3412.6
30°	2796.3	2803.0	2794.7	2761.3	2677.9	2609.0	2682.1	2844.7	2865.2	3184.7	3388.5
32.5°	2962.5	2978.9	2978.4	2943.4	2824.1	2701.1	2720.1	2834.3	2850.3	3164.6	3359.2
35°	3134.9	3157.5	3199.7	3184.7	3037.1	2846.7	2793.2	2850.8	2861.6	3162.1	3338.5
37.5°	3313.9	3336.5	3423.4	3463.5	3290.7	3055.1	2908.5	2908.9	2914.1	3193.5	3337.0
40°	3501.1	3525.4	3656.0	3760.4	3619.5	3319.0	3094.2	3030.4	3024.8	3270.6	3367.4
42.5°	3763.5	3785.1	3942.1	4075.3	3984.3	3657.1	3350.9	3217.6	3205.8	3421.9	3464.6
45°	4095.4	4113.9	4280.6	4423.1	4376.3	4042.9	3673.5	3475.4	3473.3	3674.0	3661.7
47.5°	4490.0	4504.4	4654.1	4792.0	4808.9	4486.9	4078.9	3873.1	3839.7	4019.8	3966.8
50°	4901.1	4917.0	5018.9	5167.0	5293.1	5081.2	4600.6	4360.4	4315.6	4476.1	4398.9
52.5°	5173.2	5194.4	5282.9	5470.7	5837.5	5732.5	5217.5	4951.0	4883.1	5029.1	4970.1
55°	5051.8	5099.1	5234.5	5535.5	6272.7	6727.6	5978.4	5639.8	5563.2	5684.6	5649.7
57.5°	4499.8	4564.6	4749.3	5213.9	6334.0	7604.2	7128.9	6451.3	6397.2	6362.2	6378.2
60°	3490.9	3553.1	3782.1	4387.6	5907.4	8244.2	8860.1	7451.5	7373.2	7042.4	7056.8
62.5°	2470.6	2439.2	2596.1	3039.1	4800.2	8319.4	10830.1	8789.1	8531.9	7760.6	7697.4
65°	1884.0	1876.9	1947.4	2088.4	2907.4	7420.6	12003.7	11037.4	10635.6	8605.4	8456.2
67.5°	1548.1	1535.3	1604.7	1810.0	1872.2	4787.3	12029.4	13645.9	13251.3	9657.1	9333.9
70°	1272.9	1258.4	1323.3	1588.2	1730.3	2427.9	10124.2	15173.5	15152.3	10988.6	9996.7
71°	1141.2	1130.8	1208.5	1502.8	1699.9	2023.5	8741.2	15177.6	15240.8	11439.3	9957.5
72.5°	929.2	932.8	1015.1	1337.7	1677.3	1786.8	6424.5	14470.1	14603.9	11868.9	9602.0
75°	617.4	620.5	728.5	1029.0	1626.3	1748.2	3531.0	12142.0	12388.0	11611.7	8761.8
77.5°	414.6	413.6	487.3	705.9	1416.9	1748.2	2070.3	9081.3	9351.5	9239.3	6754.8
80°	285.6	283.5	335.5	487.3	1072.7	1769.3	1600.6	6364.3	6446.1	4989.6	2745.4
82.5°	174.9	176.5	219.2	344.2	730.1	1592.4	1511.1	3470.3	3381.3	1399.4	685.9
85°	100.3	99.9	140.0	233.1	468.7	1343.9	1473.5	1493.5	1370.1	421.4	248.0
87.5°	36.0	38.6	75.2	129.2	268.6	935.8	1250.2	776.9	700.2	190.3	112.2
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°	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7
2.5°	3409.5	3412.6	3409.1	3388.5	3370.9	3342.6	3326.7	3304.6	3297.9	3294.8	3303.1
5°	3422.4	3423.4	3393.1	3339.1	3278.4	3206.8	3155.4	3092.1	3062.2	3049.4	3057.6
7.5°	3434.2	3429.6	3363.2	3259.8	3147.7	3023.2	2912.6	2811.2	2752.0	2727.8	2729.9
10°	3435.8	3416.2	3309.8	3149.7	2975.8	2793.2	2623.4	2467.0	2368.2	2303.9	2323.5
12.5°	3419.9	3386.9	3231.0	3007.2	2766.0	2516.9	2287.4	2052.9	1911.9	1846.6	1848.5
15°	3407.5	3347.8	3134.3	2839.5	2515.3	2185.6	1872.2	1596.5	1446.2	1379.4	1347.9
17.5°	3397.2	3305.6	3022.1	2650.7	2219.5	1801.3	1424.6	1178.8	1096.4	1076.8	1068.6
20°	3382.8	3260.8	2897.1	2432.0	1882.5	1371.1	1040.3	918.9	919.4	942.0	945.1
22.5°	3362.7	3209.9	2763.9	2186.6	1520.9	998.7	815.5	780.4	816.0	859.2	867.0
25°	3332.9	3149.7	2615.6	1915.4	1159.7	767.6	696.7	695.1	738.3	783.5	790.2
27.5°	3290.7	3071.0	2451.1	1624.2	854.6	652.4	624.0	634.8	666.8	699.8	702.3
30°	3234.1	2979.5	2269.4	1317.1	669.9	580.8	577.8	587.6	607.1	630.2	632.3
32.5°	3171.9	2886.3	2075.5	1019.7	573.7	542.3	545.3	550.0	559.2	568.5	570.6
35°	3115.2	2791.1	1876.9	774.8	527.8	517.0	515.0	513.9	515.0	511.9	512.4
37.5°	3078.8	2712.4	1670.1	616.9	501.6	495.0	488.8	481.1	472.3	467.2	468.2
40°	3065.3	2653.8	1460.7	533.0	480.0	475.4	463.6	447.1	436.8	433.7	433.7
42.5°	3101.4	2623.4	1258.4	490.8	462.0	454.3	434.8	415.7	408.0	407.5	406.9
45°	3211.5	2635.8	1066.0	467.6	445.6	430.6	404.9	389.0	383.8	384.9	384.3
47.5°	3409.1	2713.4	901.3	452.2	429.1	409.6	380.7	367.9	361.7	361.7	362.2
50°	3745.0	2895.0	770.2	439.4	415.2	389.9	363.3	347.3	339.0	338.6	338.6
52.5°	4234.3	3220.2	688.4	428.6	399.8	372.5	345.7	325.7	315.9	313.9	312.8
55°	4847.6	3686.4	665.7	421.4	379.1	353.5	324.7	304.6	293.7	289.1	288.7
57.5°	5533.4	4253.3	710.6	412.6	358.1	330.9	301.5	282.5	271.1	265.5	265.0
60°	6227.4	4872.3	893.2	400.3	340.6	306.1	277.9	260.3	249.0	242.8	241.8
62.5°	6922.5	5524.7	1266.2	399.2	328.2	282.5	253.6	238.7	227.9	221.2	219.7
65°	7706.6	6238.8	1690.2	426.5	324.1	260.9	228.9	217.1	207.9	201.7	201.1
67.5°	8607.0	7045.0	1649.5	482.6	338.0	241.3	205.8	196.5	189.9	184.7	184.2
70°	9029.4	6918.9	1025.3	522.2	357.5	222.3	183.7	177.0	171.8	168.2	166.7
71°	8852.4	6569.6	859.7	517.6	355.6	214.0	174.9	169.7	164.7	161.6	160.0
72.5°	8369.8	5991.3	717.2	481.5	332.4	199.2	163.6	158.5	153.9	150.2	149.2
75°	7510.5	5350.7	574.2	384.9	265.0	168.2	143.5	137.9	134.2	132.3	130.2
77.5°	5521.0	3818.5	444.1	304.1	195.0	137.3	122.4	118.4	114.7	111.6	110.1
80°	2115.0	1479.2	298.9	226.9	143.1	108.6	98.8	96.8	93.1	91.0	91.0
82.5°	569.6	442.0	159.5	137.3	95.7	79.2	75.6	74.6	71.5	67.4	67.9
85°	230.5	195.0	89.5	75.6	58.6	46.8	50.9	51.5	47.8	42.7	43.2
87.5°	101.4	82.9	49.9	33.4	25.7	18.0	23.1	23.1	21.1	17.5	16.0
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)