

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: P387061

Luminaire Tested: GAW-SA2D-740-U-SL4

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-740-U-SL4
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15387 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

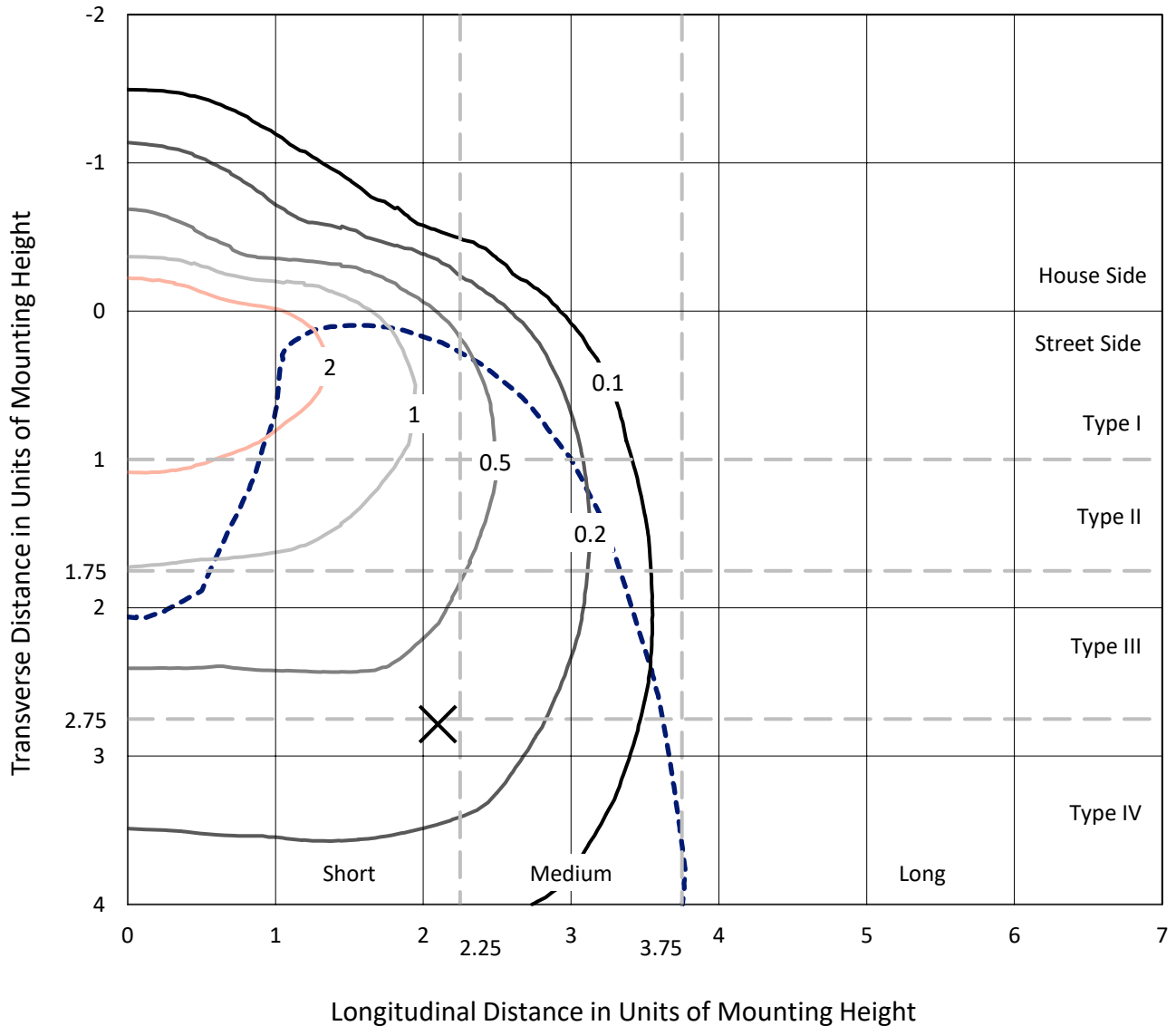
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

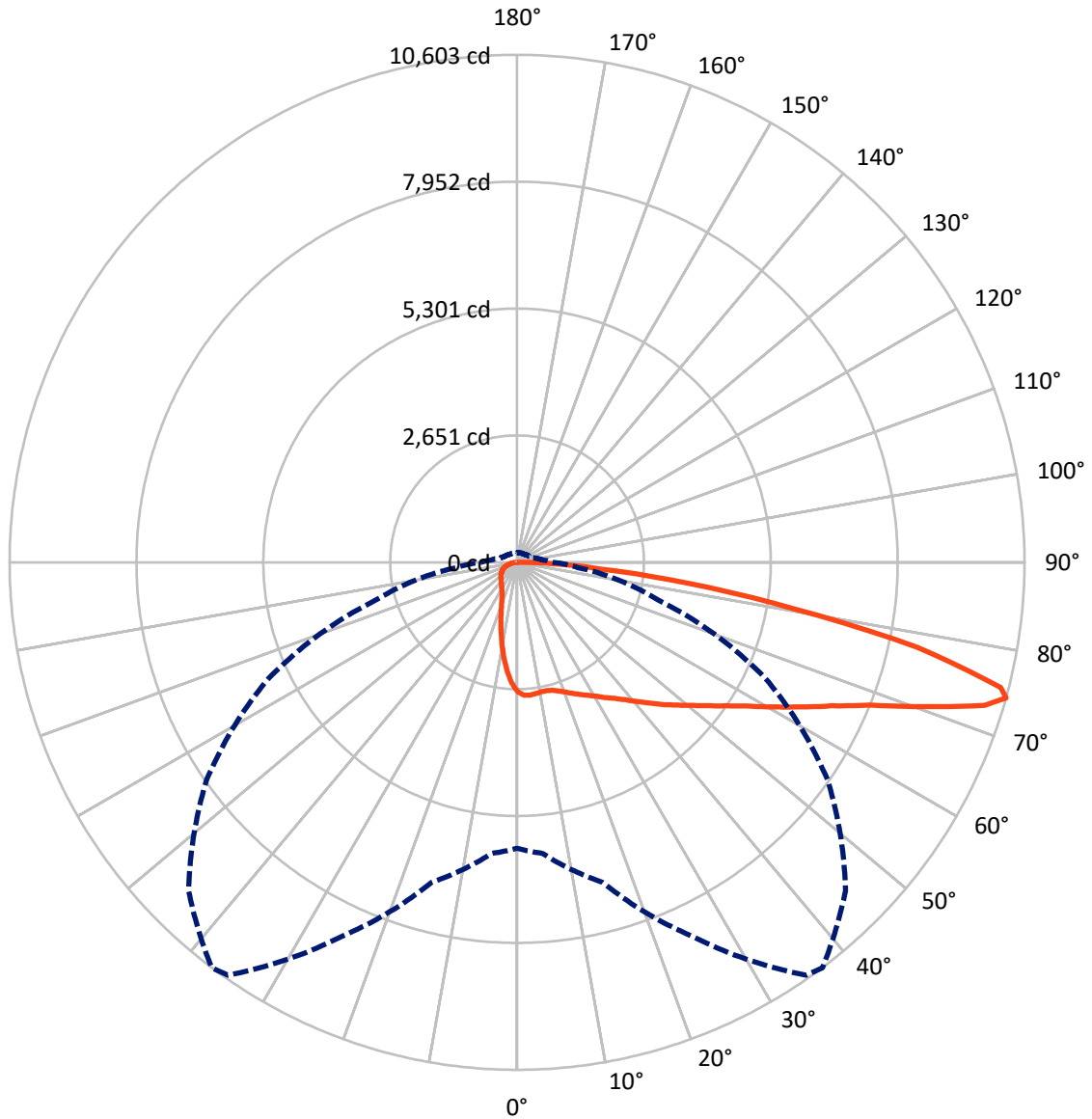
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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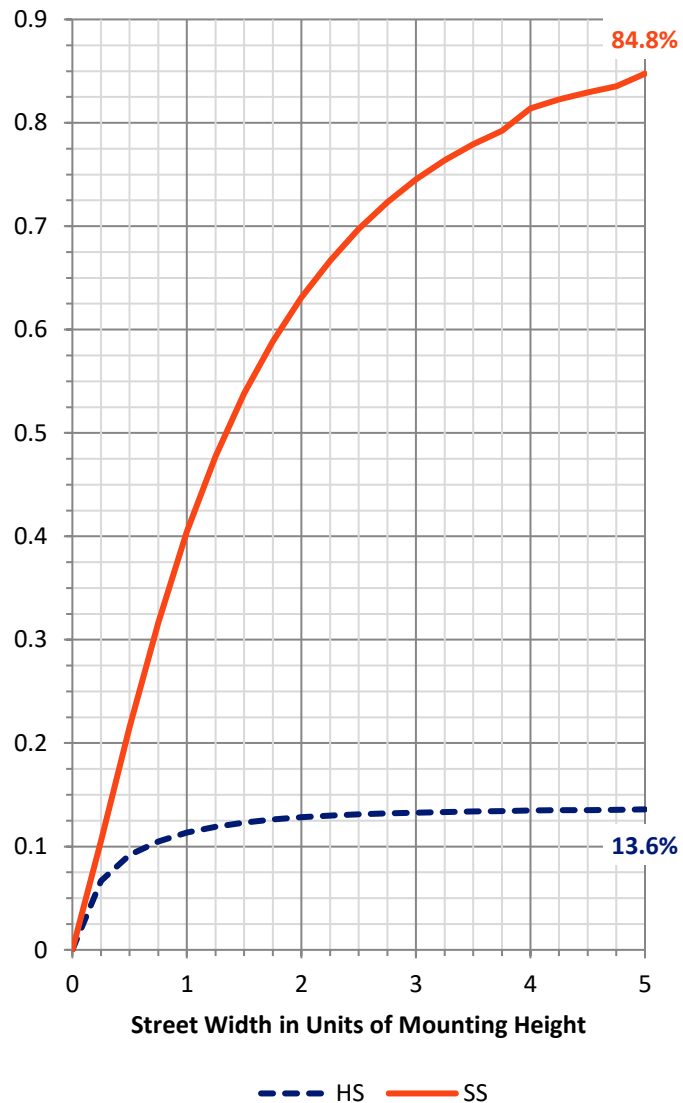
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2117.1	0.0	2117.1
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	13269.9	0.0	13269.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	15387.0	0.0	15387.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.7	1.6
10°-20°	612.0	4.0
20°-30°	942.9	6.1
30°-40°	1371.1	8.9
40°-50°	2018.1	13.1
50°-60°	2834.1	18.4
60°-70°	3587.0	23.3
70°-80°	3158.5	20.5
80°-90°	624.5	4.1
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°	15387.0	100.0
0°-180°	15387.0	100.0

Coefficient of Utilization

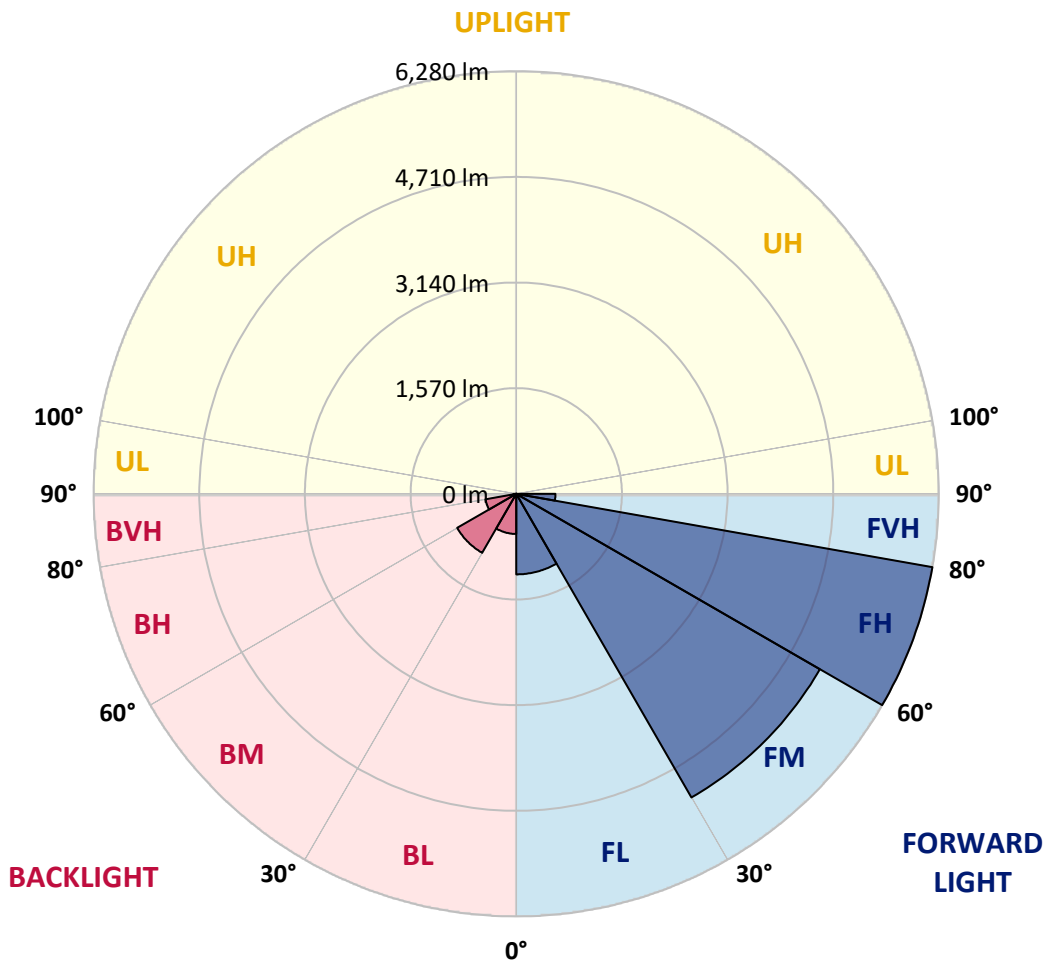


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1197.3	7.8			
FM (30°-60°)	5210.2	33.9			
FH (60°-80°)	6280.2	40.8			G3/7500
FVH (80°-90°)	582.2	3.8			G4/750
BL (0°-30°)	596.3	3.9	B2/1000		
BM (30°-60°)	1013.1	6.6	B2/2500		
BH (60°-80°)	465.4	3.0	B1/500		G1/500
BVH (80°-90°)	42.3	0.3			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°	37°	45°	55°	65°	75°	85°
0°	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1
2.5°	2803.8	2804.4	2803.8	2799.5	2789.2	2780.5	2773.5	2763.2	2740.4	2723.1	2697.0
5°	2830.4	2827.1	2825.0	2816.8	2800.6	2790.8	2777.3	2757.7	2720.3	2685.7	2643.4
7.5°	2817.9	2814.1	2809.2	2799.5	2781.0	2772.9	2753.9	2728.5	2683.5	2638.0	2577.3
10°	2779.4	2778.3	2776.2	2774.0	2758.3	2751.8	2734.4	2707.3	2662.9	2607.6	2536.6
12.5°	2736.6	2739.3	2748.0	2759.4	2752.3	2749.1	2738.2	2719.8	2674.3	2614.7	2529.0
15°	2709.5	2717.1	2740.4	2770.2	2776.2	2775.1	2772.4	2760.5	2712.2	2646.1	2546.4
17.5°	2700.3	2712.8	2757.2	2806.5	2823.9	2827.7	2828.7	2808.1	2754.5	2684.6	2564.2
20°	2717.1	2732.8	2797.9	2865.6	2893.2	2895.4	2890.5	2854.8	2794.6	2717.6	2574.0
22.5°	2768.0	2782.1	2863.4	2939.9	2971.3	2974.5	2959.9	2905.7	2836.9	2756.7	2587.6
25°	2866.1	2883.5	2964.8	3041.2	3057.5	3058.0	3036.9	2969.7	2892.2	2811.4	2616.8
27.5°	2994.1	3011.4	3084.6	3159.4	3150.7	3145.8	3117.1	3049.9	2964.2	2886.7	2668.9
30°	3136.6	3155.6	3225.0	3278.1	3257.5	3247.7	3224.4	3137.7	3064.5	2989.7	2748.5
32.5°	3284.0	3301.4	3362.1	3398.4	3372.4	3368.0	3332.8	3253.7	3195.1	3146.9	2877.5
35°	3435.3	3447.7	3507.3	3527.9	3493.2	3492.2	3482.4	3409.8	3372.9	3395.7	3065.1
37.5°	3589.7	3593.0	3643.9	3645.0	3634.7	3639.0	3649.3	3603.8	3614.1	3685.1	3309.0
40°	3727.4	3736.1	3772.9	3784.3	3802.2	3817.4	3868.9	3839.1	3918.7	4044.5	3612.5
42.5°	3829.3	3846.1	3905.2	3934.4	3992.4	4016.3	4088.9	4116.6	4277.0	4465.6	3973.5
45°	3915.5	3941.5	4036.3	4096.5	4194.6	4236.3	4340.4	4433.1	4681.9	4922.5	4353.4
47.5°	4008.7	4041.8	4160.5	4275.4	4408.7	4455.9	4645.0	4783.8	5113.9	5382.2	4711.7
50°	4145.8	4171.3	4287.3	4467.8	4634.2	4694.9	4956.7	5155.6	5552.9	5820.1	5022.3
52.5°	4337.2	4327.4	4425.5	4678.6	4901.9	4976.7	5289.5	5551.3	5997.9	6216.3	5284.6
55°	4529.6	4513.3	4582.1	4899.2	5214.1	5292.7	5655.9	5948.6	6421.2	6572.9	5485.7
57.5°	4743.7	4712.8	4770.8	5148.0	5569.7	5663.5	6066.2	6370.8	6837.4	6861.3	5613.6
60°	4964.3	4922.5	4987.6	5456.4	6021.2	6131.7	6546.4	6782.7	7229.9	7092.2	5654.8
62.5°	5157.2	5127.9	5228.2	5800.6	6530.1	6651.5	7017.9	7220.6	7616.9	7188.1	5506.3
65°	5325.8	5330.7	5504.1	6187.6	7097.6	7227.1	7558.9	7760.5	7921.5	7131.2	5158.8
67.5°	5526.9	5554.5	5850.4	6697.1	7812.0	7954.0	8345.9	8349.1	8091.7	6797.3	4474.8
70°	5820.1	5877.0	6326.9	7403.8	8827.7	9022.8	9325.3	8694.9	7852.6	5892.2	3520.9
72.5°	6080.3	6186.5	6833.7	8212.5	10065.7	10213.6	9898.2	8495.5	6853.7	4415.7	2193.5
74°	5974.6	6106.3	6925.8	8610.9	10531.8	10602.8	9704.7	7913.3	5714.4	3058.0	1274.8
75°	5746.9	5890.0	6791.4	8607.1	10472.7	10433.1	9237.5	7248.3	4706.3	2085.7	848.2
77.5°	4638.0	4789.2	5722.5	7376.7	8587.1	8549.7	7096.0	4862.4	2061.3	684.0	430.9
80°	2696.5	2811.9	3552.3	4684.6	5790.3	5858.0	4666.7	2406.0	810.8	384.3	292.1
82.5°	1197.8	1277.5	1716.0	2391.3	3494.3	3581.6	2443.9	1260.7	500.8	233.6	175.6
85°	785.9	845.0	1041.7	1138.8	1664.0	1723.6	1196.2	981.6	330.6	128.5	129.0
87.5°	565.3	622.2	774.0	675.9	763.7	723.0	651.0	908.4	132.8	73.2	43.4
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°	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1
2.5°	2685.7	2677.0	2657.5	2620.6	2600.0	2582.7	2553.9	2537.1	2529.6	2529.0	2532.3
5°	2619.0	2598.9	2548.5	2486.7	2437.4	2392.4	2336.6	2303.0	2279.1	2265.1	2268.9
7.5°	2541.5	2510.0	2430.9	2332.3	2253.1	2165.9	2079.7	2028.2	1988.1	1958.3	1963.7
10°	2488.4	2445.0	2329.6	2187.5	2055.8	1929.0	1810.3	1739.3	1682.9	1639.6	1642.8
12.5°	2470.5	2411.9	2252.0	2062.3	1877.5	1704.1	1549.1	1440.1	1382.1	1332.8	1336.6
15°	2473.2	2394.6	2187.0	1949.6	1717.1	1498.7	1310.6	1183.2	1104.6	1070.5	1071.0
17.5°	2475.4	2374.5	2118.7	1828.7	1558.3	1306.8	1102.4	973.4	899.2	867.8	868.3
20°	2468.3	2342.0	2034.2	1690.0	1392.4	1130.6	932.8	823.3	766.9	742.6	742.6
22.5°	2459.1	2303.5	1938.8	1550.7	1228.7	977.8	811.4	727.9	695.4	679.1	678.6
25°	2463.4	2274.8	1841.2	1407.6	1078.1	855.8	730.6	675.3	653.7	643.4	642.8
27.5°	2486.7	2261.3	1751.2	1265.0	946.3	764.2	676.4	637.4	623.3	616.8	616.8
30°	2529.0	2261.3	1657.5	1143.6	836.9	696.5	634.7	608.1	598.4	594.0	594.0
32.5°	2602.7	2273.7	1566.9	1023.3	749.6	643.4	600.0	582.1	574.5	572.4	572.4
35°	2729.6	2316.0	1478.6	909.5	679.1	600.0	566.9	556.6	551.2	550.7	552.3
37.5°	2907.9	2402.2	1395.7	825.5	629.3	564.8	539.3	531.2	527.9	530.6	532.8
40°	3132.3	2519.3	1320.3	749.6	591.3	536.6	513.8	508.4	506.8	510.6	513.8
42.5°	3403.3	2677.5	1258.5	694.9	562.1	512.7	492.1	485.6	484.0	488.4	492.7
45°	3696.5	2847.7	1215.2	654.2	539.3	494.9	473.2	466.1	462.9	465.0	469.9
47.5°	3963.2	3008.7	1197.8	625.5	517.6	479.7	456.4	447.7	442.3	441.2	445.0
50°	4188.1	3128.5	1206.0	608.1	500.3	462.9	440.1	430.4	422.2	417.3	420.1
52.5°	4351.8	3203.8	1213.6	600.5	486.7	444.4	422.2	413.0	402.2	394.0	394.0
55°	4470.5	3221.2	1196.8	594.6	476.4	424.4	402.2	393.5	382.7	373.4	372.4
57.5°	4517.1	3172.4	1134.4	585.9	469.4	405.4	381.0	374.5	365.3	354.5	353.9
60°	4454.2	3021.7	1014.1	567.5	460.2	389.7	359.9	355.6	351.2	340.9	340.4
62.5°	4201.7	2691.1	858.5	530.1	441.7	372.9	340.4	342.5	343.1	336.0	335.0
65°	3743.7	2236.9	706.8	481.3	414.1	352.8	320.3	330.6	336.6	335.5	333.9
67.5°	3078.1	1740.9	598.9	429.8	377.8	325.2	298.6	310.6	315.4	319.2	318.2
70°	2284.6	1227.7	495.4	375.6	333.9	292.7	270.5	276.4	273.2	277.5	279.1
72.5°	1273.7	736.6	403.8	321.4	288.3	254.7	239.0	237.9	230.9	230.9	230.9
74°	764.2	540.4	355.0	287.8	260.7	229.8	216.3	211.4	204.9	205.4	204.9
75°	614.6	464.5	325.7	265.6	241.2	215.2	201.6	195.1	190.2	190.2	189.7
77.5°	388.1	352.8	262.3	211.4	193.0	177.2	168.0	159.4	159.4	158.8	158.3
80°	293.2	280.8	204.3	159.9	148.0	136.0	130.1	126.3	126.3	127.9	127.4
82.5°	201.1	211.4	143.6	111.7	105.7	97.0	95.9	96.5	94.9	92.7	92.1
85°	146.9	158.8	97.0	70.5	64.5	59.1	63.4	65.6	62.9	58.0	55.8
87.5°	56.4	104.1	52.0	29.3	27.1	23.3	27.1	28.2	30.4	23.8	24.4
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)