

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: P320046

Luminaire Tested: **GAN-SA2C-750-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320046
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 (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-750-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1050mA 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: 13750 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

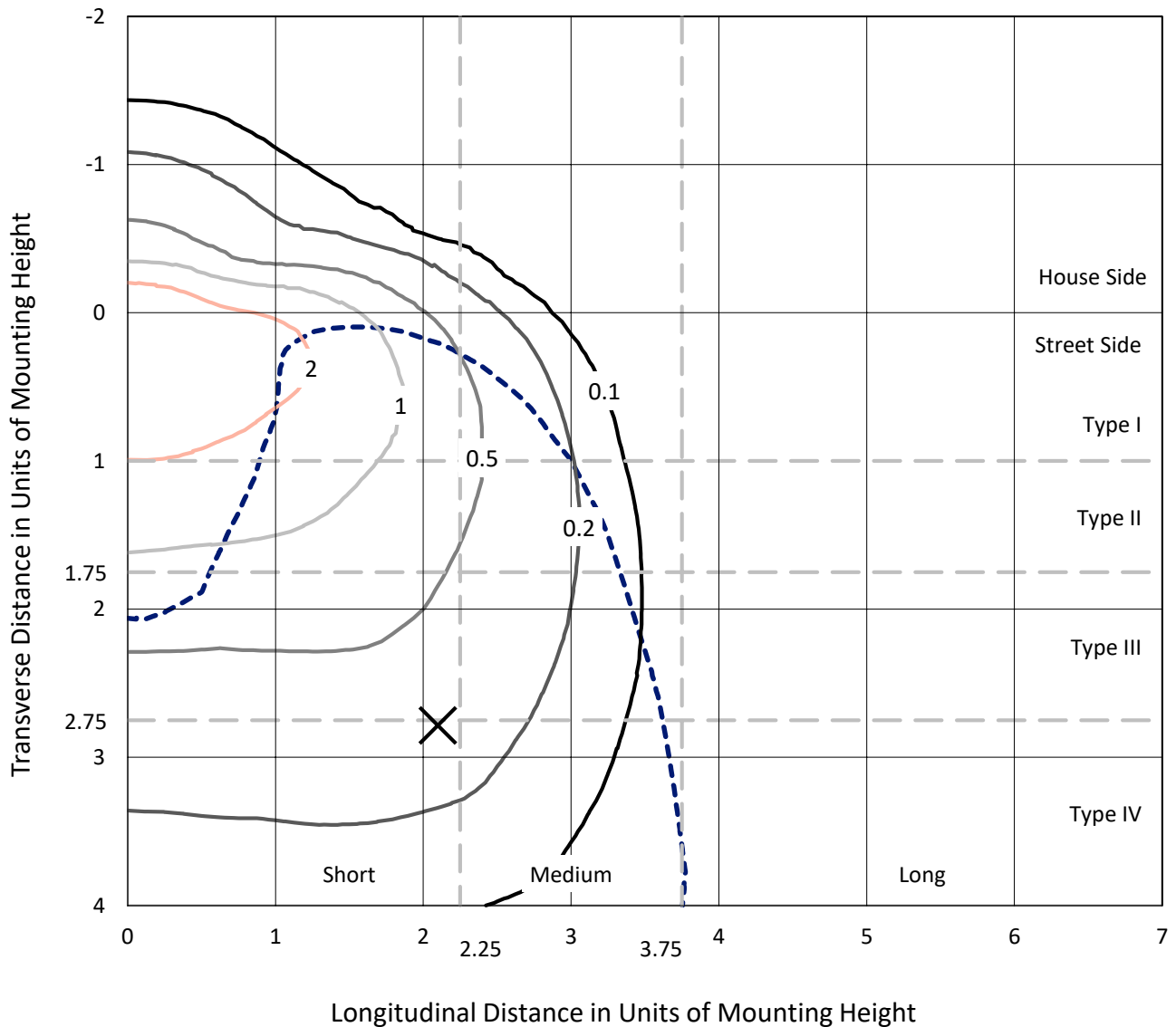
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

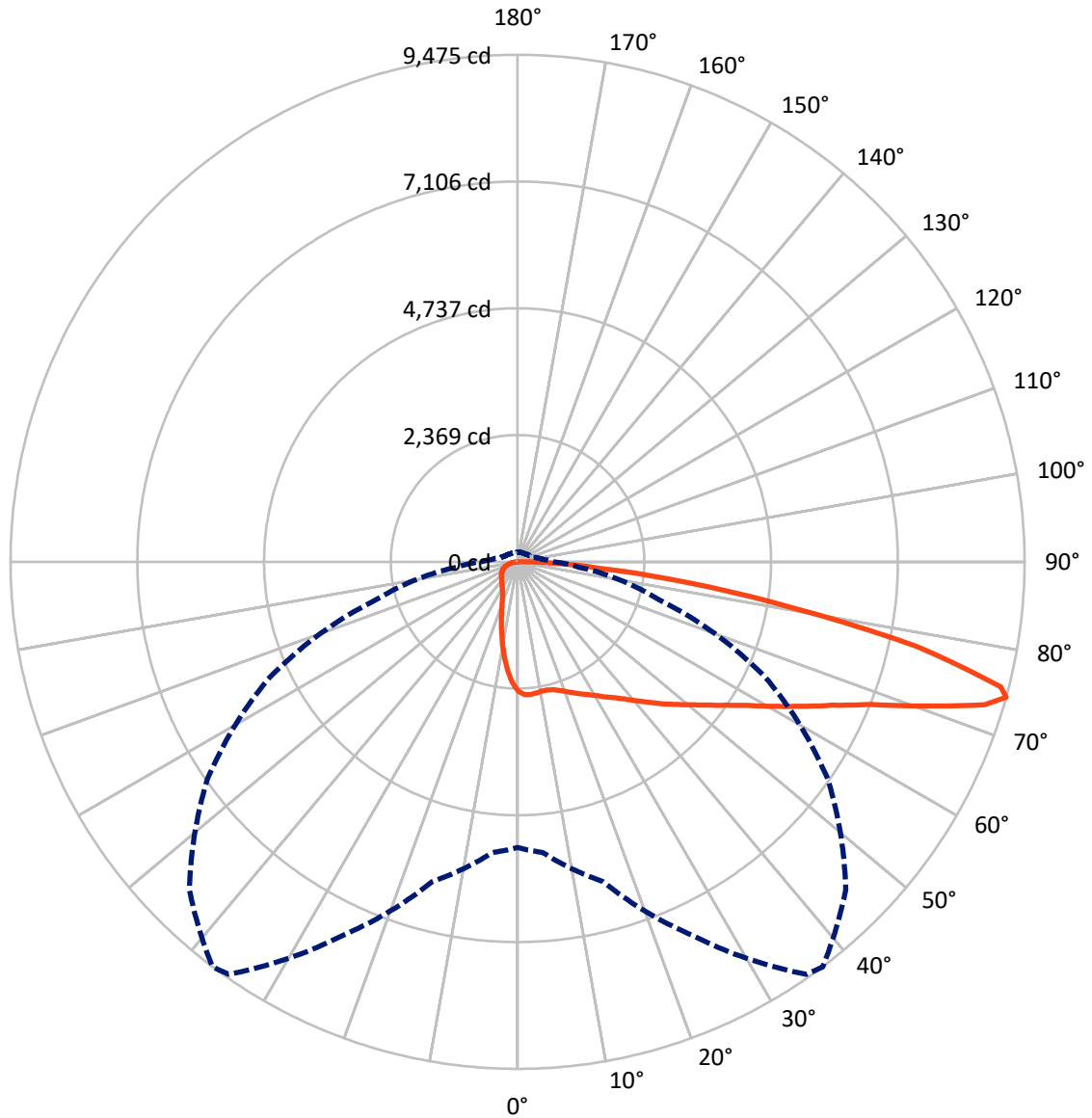
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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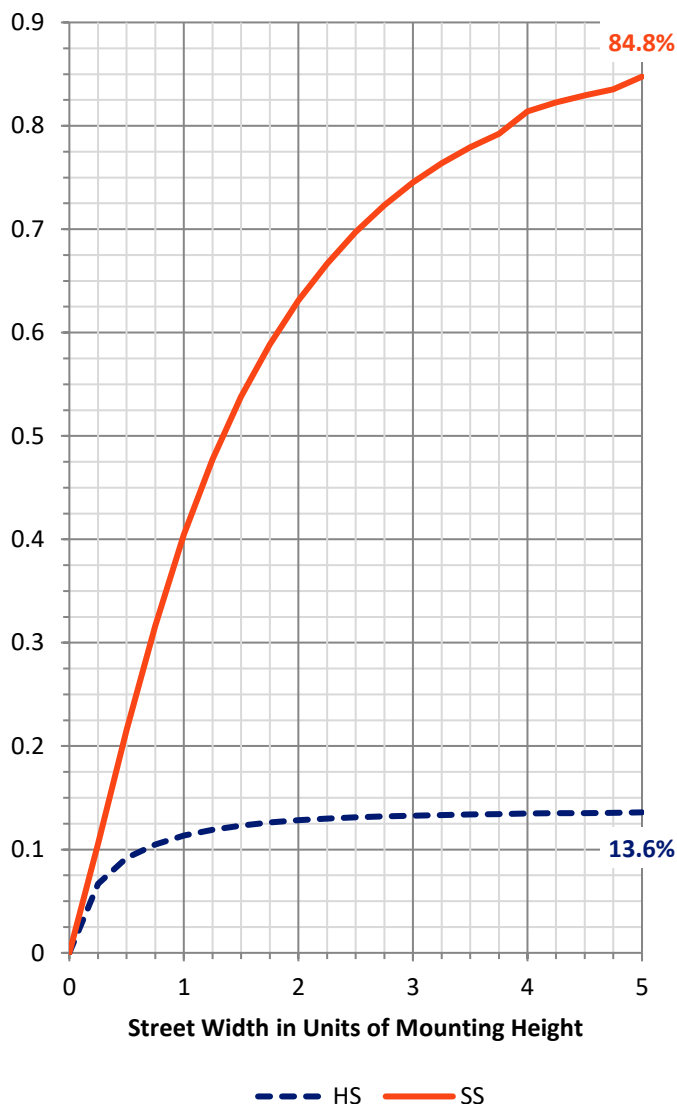
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1891.9	0.0	1891.9
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	11858.1	0.0	11858.1
	% Fixture	86.2	0.0	86.2
Total	Lumens	13750.0	0.0	13750.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.3	1.6
10°-20°	546.9	4.0
20°-30°	842.6	6.1
30°-40°	1225.3	8.9
40°-50°	1803.4	13.1
50°-60°	2532.5	18.4
60°-70°	3205.4	23.3
70°-80°	2822.5	20.5
80°-90°	558.1	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°	13750.0	100.0
0°-180°	13750.0	100.0

Coefficient of Utilization

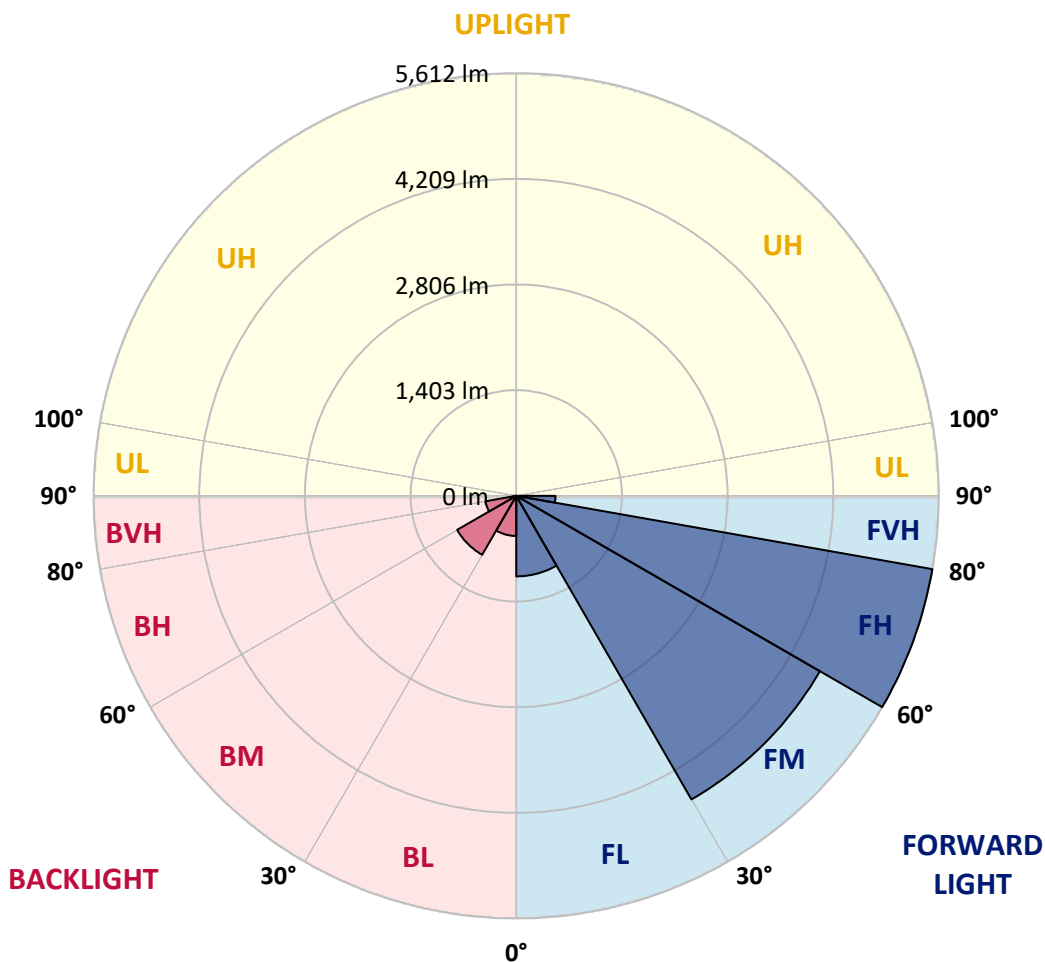


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1069.9	7.8			
FM (30°-60°)	4655.9	33.9			
FH (60°-80°)	5612.1	40.8			G3/7500
FVH (80°-90°)	520.3	3.8			G4/750
BL (0°-30°)	532.9	3.9	B2/1000		
BM (30°-60°)	905.3	6.6	B1/1000		
BH (60°-80°)	415.9	3.0	B1/500		G1/500
BVH (80°-90°)	37.8	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°	2422.7	2422.7	2422.7	2422.7	2422.7	2422.7	2422.7	2422.7	2422.7	2422.7	2422.7
2.5°	2505.5	2506.0	2505.5	2501.6	2492.4	2484.7	2478.4	2469.2	2448.9	2433.4	2410.1
5°	2529.3	2526.3	2524.4	2517.1	2502.6	2493.9	2481.8	2464.4	2430.9	2399.9	2362.2
7.5°	2518.1	2514.7	2510.4	2501.6	2485.2	2477.9	2461.0	2438.2	2398.0	2357.3	2303.1
10°	2483.7	2482.8	2480.8	2478.9	2464.8	2459.0	2443.5	2419.3	2379.6	2330.2	2266.7
12.5°	2445.5	2447.9	2455.6	2465.8	2459.5	2456.6	2446.9	2430.4	2389.8	2336.5	2260.0
15°	2421.2	2428.0	2448.9	2475.5	2480.8	2479.8	2477.4	2466.8	2423.7	2364.6	2275.5
17.5°	2413.0	2424.1	2463.9	2507.9	2523.4	2526.8	2527.8	2509.4	2461.4	2399.0	2291.4
20°	2428.0	2442.1	2500.2	2560.7	2585.4	2587.4	2583.0	2551.0	2497.3	2428.5	2300.2
22.5°	2473.6	2486.1	2558.8	2627.1	2655.2	2658.1	2645.0	2596.6	2535.1	2463.4	2312.3
25°	2561.2	2576.7	2649.4	2717.7	2732.2	2732.7	2713.8	2653.7	2584.5	2512.3	2338.4
27.5°	2675.5	2691.0	2756.4	2823.3	2815.5	2811.1	2785.5	2725.4	2648.9	2579.6	2384.9
30°	2802.9	2819.9	2881.9	2929.3	2910.9	2902.2	2881.4	2803.9	2738.5	2671.7	2456.1
32.5°	2934.7	2950.1	3004.4	3036.8	3013.6	3009.7	2978.2	2907.5	2855.2	2812.1	2571.4
35°	3069.8	3080.9	3134.2	3152.6	3121.6	3120.6	3111.9	3047.0	3014.1	3034.4	2739.0
37.5°	3207.8	3210.7	3256.3	3257.2	3248.0	3251.9	3261.1	3220.4	3229.6	3293.1	2956.9
40°	3330.8	3338.6	3371.5	3381.7	3397.7	3411.2	3457.3	3430.6	3501.8	3614.2	3228.2
42.5°	3421.9	3436.9	3489.7	3515.9	3567.7	3589.0	3653.9	3678.6	3822.0	3990.5	3550.7
45°	3498.9	3522.2	3606.9	3660.7	3748.4	3785.6	3878.6	3961.5	4183.8	4398.8	3890.3
47.5°	3582.2	3611.8	3717.8	3820.5	3939.7	3981.8	4150.8	4274.8	4569.8	4809.6	4210.4
50°	3704.8	3727.5	3831.2	3992.5	4141.2	4195.4	4429.3	4607.1	4962.1	5200.9	4487.9
52.5°	3875.7	3867.0	3954.7	4180.9	4380.4	4447.3	4726.7	4960.7	5359.8	5555.0	4722.4
55°	4047.7	4033.1	4094.7	4378.0	4659.4	4729.6	5054.1	5315.7	5738.0	5873.7	4902.1
57.5°	4239.0	4211.4	4263.2	4600.3	4977.1	5060.9	5420.8	5693.0	6110.0	6131.3	5016.4
60°	4436.1	4398.8	4456.9	4875.9	5380.6	5479.4	5849.9	6061.1	6460.7	6337.7	5053.2
62.5°	4608.5	4582.4	4672.0	5183.5	5835.4	5943.9	6271.3	6452.5	6806.5	6423.4	4920.5
65°	4759.2	4763.5	4918.5	5529.3	6342.5	6458.3	6754.7	6934.9	7078.7	6372.5	4610.0
67.5°	4938.9	4963.6	5228.0	5984.6	6980.9	7107.8	7458.0	7460.9	7230.8	6074.2	3998.8
70°	5200.9	5251.8	5653.8	6616.2	7888.5	8062.9	8333.2	7769.9	7017.2	5265.3	3146.3
72.5°	5433.4	5528.3	6106.6	7338.8	8994.8	9127.0	8845.1	7591.6	6124.6	3946.0	1960.1
74°	5338.9	5456.6	6189.0	7694.8	9411.3	9474.8	8672.2	7071.4	5106.5	2732.7	1139.2
75°	5135.5	5263.4	6068.9	7691.4	9358.5	9323.2	8254.7	6477.2	4205.6	1863.8	758.0
77.5°	4144.5	4279.7	5113.7	6591.9	7673.5	7640.1	6341.1	4345.1	1842.0	611.2	385.1
80°	2409.6	2512.8	3174.4	4186.2	5174.3	5234.8	4170.2	2150.0	724.6	343.4	261.1
82.5°	1070.4	1141.6	1533.4	2136.9	3122.6	3200.6	2183.9	1126.6	447.5	208.8	156.9
85°	702.3	755.1	930.9	1017.6	1486.9	1540.2	1069.0	877.1	295.5	114.8	115.3
87.5°	505.2	556.0	691.6	604.0	682.4	646.1	581.7	811.8	118.7	65.4	38.7
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°	2422.7	2422.7	2422.7	2422.7	2422.7	2422.7	2422.7	2422.7	2422.7	2422.7	2422.7
2.5°	2399.9	2392.2	2374.7	2341.8	2323.4	2307.9	2282.2	2267.2	2260.4	2260.0	2262.9
5°	2340.4	2322.4	2277.4	2222.2	2178.1	2137.9	2088.0	2058.0	2036.7	2024.1	2027.5
7.5°	2271.1	2243.0	2172.3	2084.1	2013.4	1935.4	1858.4	1812.4	1776.6	1749.9	1754.8
10°	2223.6	2184.9	2081.7	1954.8	1837.1	1723.8	1617.7	1554.3	1503.9	1465.1	1468.1
12.5°	2207.6	2155.3	2012.5	1842.9	1677.8	1522.8	1384.3	1286.9	1235.1	1191.0	1194.4
15°	2210.1	2139.8	1954.3	1742.2	1534.4	1339.2	1171.1	1057.3	987.1	956.6	957.1
17.5°	2212.0	2121.9	1893.3	1634.2	1392.5	1167.8	985.2	869.9	803.5	775.4	775.9
20°	2205.7	2092.9	1817.7	1510.2	1244.3	1010.3	833.6	735.7	685.3	663.6	663.6
22.5°	2197.5	2058.5	1732.5	1385.7	1098.0	873.8	725.1	650.5	621.4	606.9	606.4
25°	2201.4	2032.8	1645.3	1257.8	963.4	764.8	652.9	603.5	584.1	574.9	574.4
27.5°	2222.2	2020.7	1564.9	1130.5	845.7	682.9	604.5	569.6	557.0	551.2	551.2
30°	2260.0	2020.7	1481.1	1022.0	747.8	622.4	567.2	543.4	534.7	530.8	530.8
32.5°	2325.8	2031.8	1400.2	914.4	669.8	574.9	536.2	520.2	513.4	511.5	511.5
35°	2439.2	2069.6	1321.3	812.7	606.9	536.2	506.6	497.4	492.6	492.1	493.5
37.5°	2598.5	2146.6	1247.2	737.7	562.3	504.7	481.9	474.7	471.8	474.2	476.1
40°	2799.0	2251.2	1179.9	669.8	528.4	479.5	459.2	454.3	452.9	456.3	459.2
42.5°	3041.2	2392.7	1124.7	620.9	502.3	458.2	439.8	434.0	432.5	436.4	440.3
45°	3303.2	2544.8	1085.9	584.6	481.9	442.2	422.8	416.5	413.6	415.6	419.9
47.5°	3541.5	2688.6	1070.4	558.9	462.6	428.6	407.8	400.1	395.2	394.3	397.6
50°	3742.5	2795.6	1077.7	543.4	447.1	413.6	393.3	384.6	377.3	372.9	375.4
52.5°	3888.8	2863.0	1084.4	536.7	434.9	397.2	377.3	369.1	359.4	352.1	352.1
55°	3994.9	2878.5	1069.4	531.3	425.7	379.2	359.4	351.6	341.9	333.7	332.7
57.5°	4036.5	2834.9	1013.7	523.6	419.4	362.3	340.5	334.7	326.4	316.8	316.3
60°	3980.4	2700.2	906.2	507.1	411.2	348.2	321.6	317.7	313.9	304.7	304.2
62.5°	3754.6	2404.8	767.2	473.7	394.7	333.2	304.2	306.1	306.6	300.3	299.3
65°	3345.4	1998.9	631.6	430.1	370.0	315.3	286.2	295.5	300.8	299.8	298.4
67.5°	2750.6	1555.7	535.2	384.1	337.6	290.6	266.9	277.5	281.9	285.3	284.3
70°	2041.5	1097.0	442.7	335.7	298.4	261.5	241.7	247.0	244.1	248.0	249.4
72.5°	1138.2	658.2	360.8	287.2	257.7	227.6	213.6	212.6	206.3	206.3	206.3
74°	682.9	482.9	317.2	257.2	233.0	205.4	193.3	188.9	183.1	183.6	183.1
75°	549.2	415.1	291.1	237.3	215.5	192.3	180.2	174.4	170.0	170.0	169.5
77.5°	346.8	315.3	234.4	188.9	172.4	158.4	150.1	142.4	142.4	141.9	141.4
80°	262.0	250.9	182.6	142.9	132.2	121.6	116.2	112.9	112.9	114.3	113.8
82.5°	179.7	188.9	128.4	99.8	94.4	86.7	85.7	86.2	84.8	82.8	82.3
85°	131.3	141.9	86.7	63.0	57.6	52.8	56.7	58.6	56.2	51.8	49.9
87.5°	50.4	93.0	46.5	26.2	24.2	20.8	24.2	25.2	27.1	21.3	21.8
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)