

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: P319716

Luminaire Tested: **GAN-SA2B-750-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-750-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11694 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 85
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

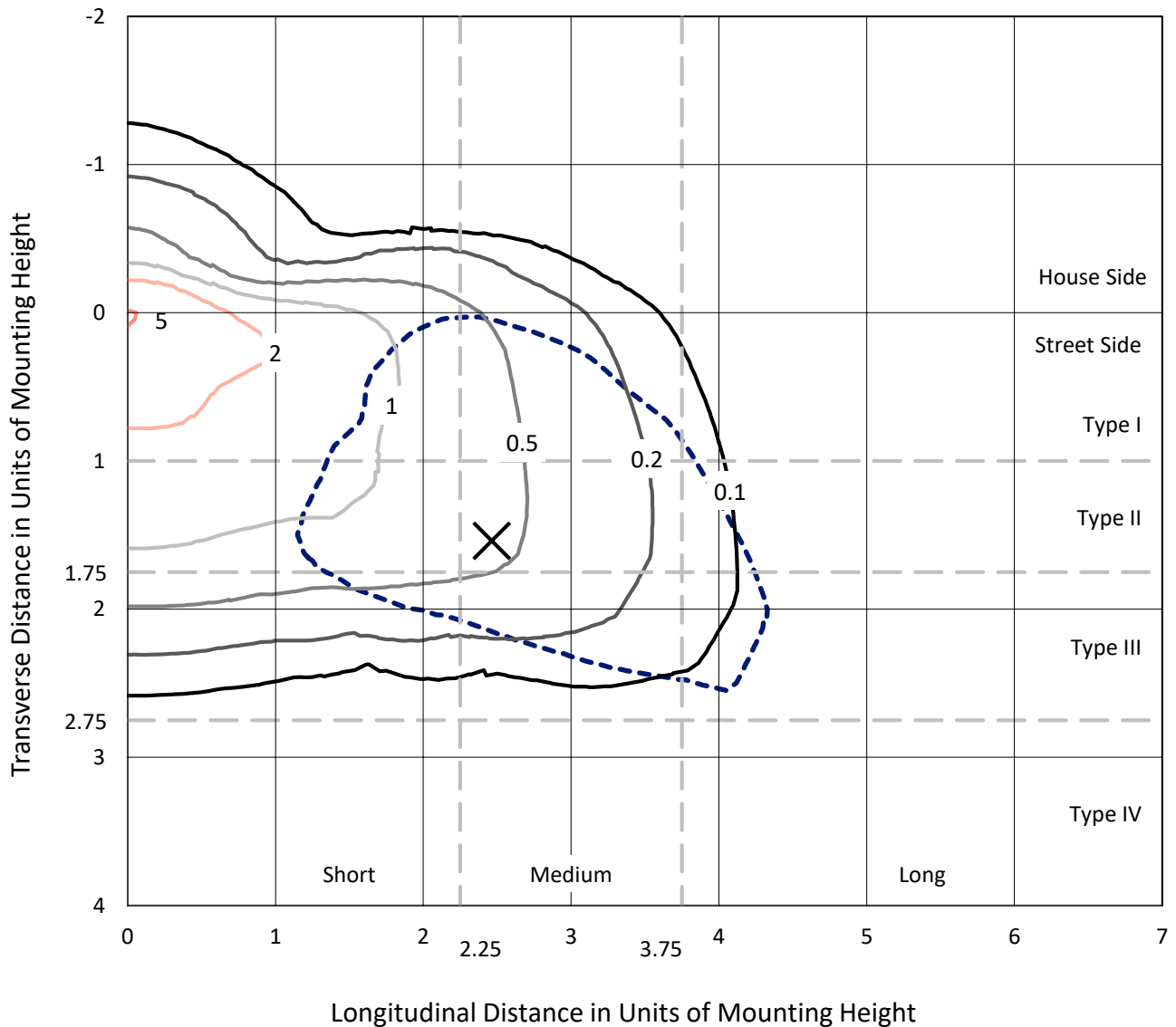




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Iso-Footcandle Lines of Horizontal Illumination

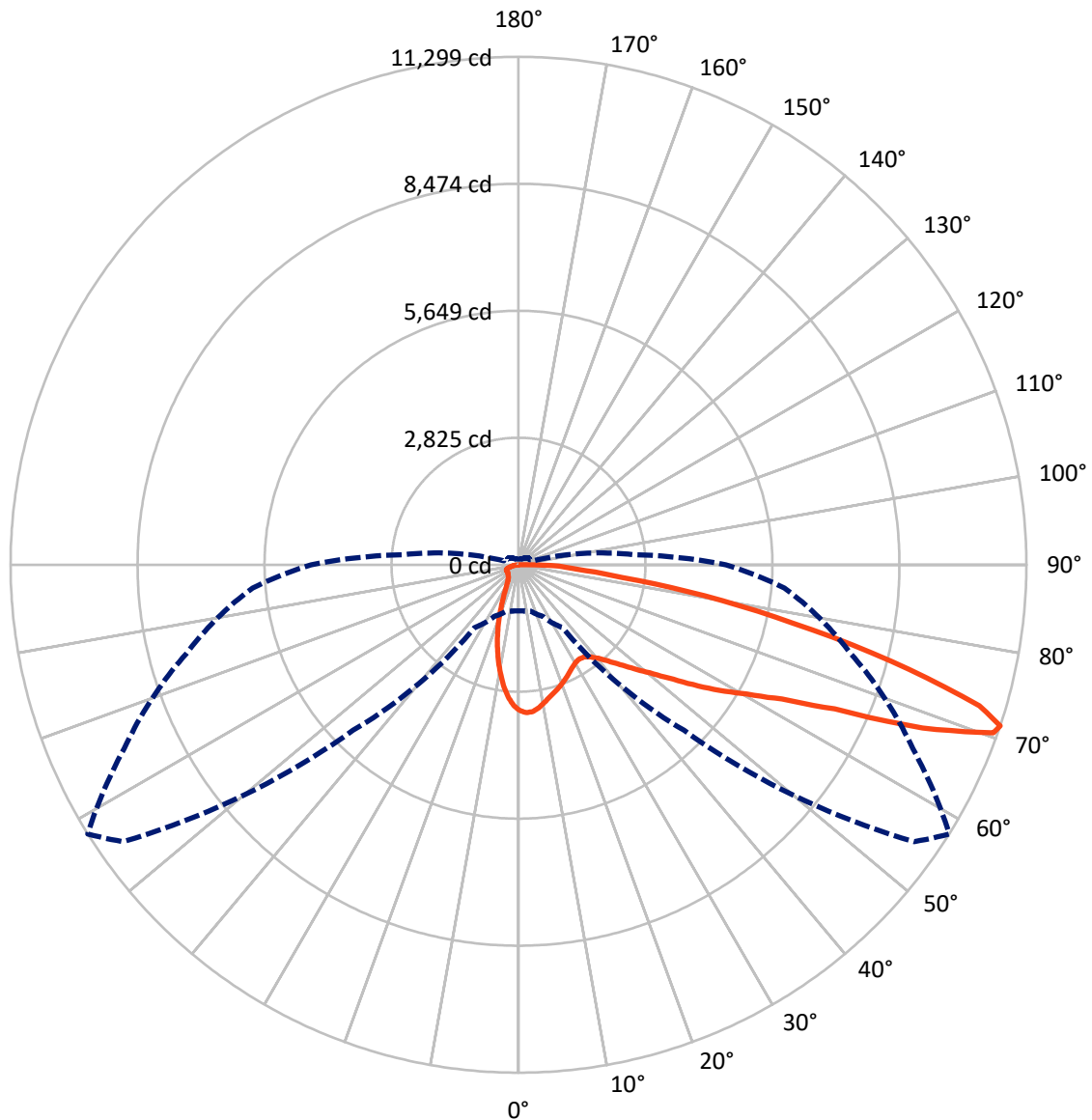
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1748.3	0.0	1748.3
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	9945.7	0.0	9945.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	11694.0	0.0	11694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.5	2.4
10°-20°	621.5	5.3
20°-30°	789.9	6.8
30°-40°	1006.2	8.6
40°-50°	1426.8	12.2
50°-60°	2208.1	18.9
60°-70°	3006.0	25.7
70°-80°	2005.4	17.1
80°-90°	350.6	3.0
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°	11694.0	100.0
0°-180°	11694.0	100.0

Coefficient of Utilization



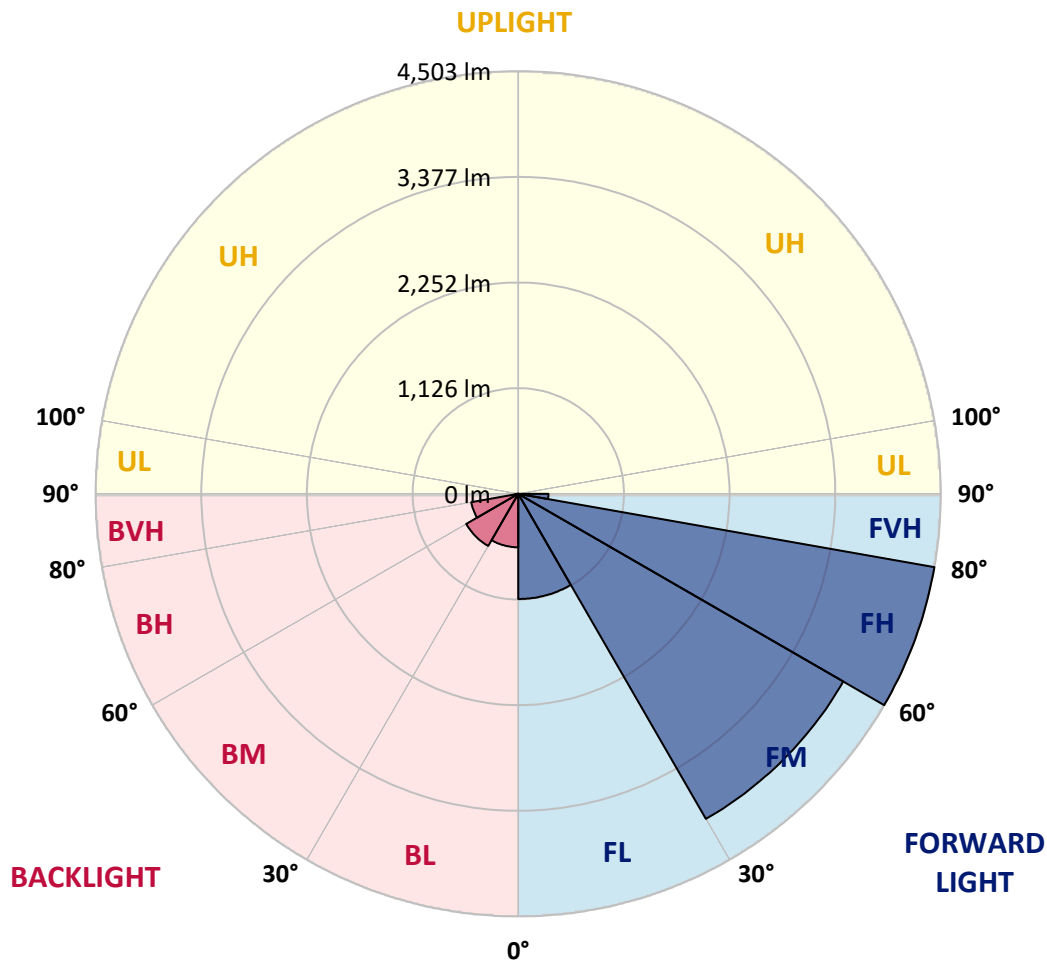
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1121.1	9.6			
FM (30°-60°)	3999.9	34.2			
FH (60°-80°)	4503.2	38.5			G2/5000
FVH (80°-90°)	321.5	2.7			G3/500
BL (0°-30°)	569.9	4.9	B2/1000		
BM (30°-60°)	641.2	5.5	B1/1000		
BH (60°-80°)	508.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	29.1	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3240.0	3240.0	3240.0	3240.0	3240.0	3240.0	3240.0	3240.0	3240.0	3240.0	3240.0
2.5°	3326.0	3321.5	3323.1	3319.9	3312.1	3304.4	3293.0	3295.0	3279.1	3255.5	3226.2
5°	3263.2	3261.6	3273.8	3280.8	3286.5	3282.0	3278.7	3282.8	3259.6	3227.0	3176.1
7.5°	3131.7	3113.7	3129.2	3152.4	3174.4	3191.1	3213.1	3216.0	3201.3	3167.1	3100.3
10°	2944.7	2927.6	2950.4	2986.7	3030.6	3070.6	3115.0	3123.1	3126.0	3095.0	3013.9
12.5°	2750.8	2737.8	2760.6	2811.5	2884.4	2945.9	3016.8	3029.0	3054.3	3033.5	2934.1
15°	2577.3	2572.4	2600.1	2650.2	2734.1	2828.2	2930.4	2952.8	2995.6	2988.7	2871.8
17.5°	2427.4	2426.1	2447.3	2499.9	2592.7	2711.7	2844.5	2882.4	2945.9	2954.1	2820.5
20°	2315.8	2313.3	2328.0	2366.7	2462.4	2597.2	2751.6	2803.8	2895.4	2923.9	2767.5
22.5°	2255.9	2255.5	2255.9	2274.2	2352.4	2477.9	2661.2	2724.7	2846.1	2899.9	2708.8
25°	2245.7	2244.5	2235.5	2233.5	2277.9	2378.1	2571.6	2641.6	2799.3	2883.2	2653.0
27.5°	2272.2	2273.8	2262.0	2242.8	2251.8	2312.5	2493.8	2568.7	2761.8	2879.9	2614.3
30°	2327.2	2326.3	2316.2	2296.2	2278.7	2288.1	2438.4	2513.3	2736.5	2894.2	2587.9
32.5°	2387.9	2392.3	2390.3	2379.3	2353.2	2315.8	2421.7	2495.0	2729.2	2928.4	2576.5
35°	2460.8	2465.7	2480.3	2488.9	2458.3	2398.0	2457.5	2521.1	2750.4	2992.8	2594.8
37.5°	2530.0	2542.6	2583.8	2620.0	2594.0	2526.8	2552.8	2598.0	2816.0	3094.2	2644.1
40°	2609.9	2620.9	2688.1	2765.1	2761.0	2691.3	2706.4	2736.5	2931.7	3239.6	2733.3
42.5°	2688.5	2710.5	2807.8	2917.0	2948.4	2886.9	2910.9	2926.8	3094.6	3432.3	2888.9
45°	2793.2	2816.8	2952.0	3083.6	3156.9	3122.3	3160.6	3166.7	3299.5	3694.6	3115.0
47.5°	2951.6	2978.5	3136.1	3274.2	3386.3	3389.9	3453.1	3450.6	3555.3	3994.8	3399.7
50°	3198.5	3237.2	3366.3	3495.4	3631.5	3707.2	3791.6	3779.8	3862.0	4314.6	3727.6
52.5°	3521.9	3539.8	3635.6	3730.9	3899.9	4069.8	4190.8	4180.2	4209.9	4643.3	4099.9
55°	3857.1	3870.6	3910.1	3962.2	4189.5	4466.5	4722.3	4705.6	4630.3	4984.7	4467.8
57.5°	4158.6	4185.9	4213.2	4234.8	4481.2	4881.2	5266.2	5267.4	5086.5	5352.9	4847.8
60°	4205.4	4229.5	4409.9	4580.2	4980.2	5434.4	5848.2	5836.0	5558.6	5752.5	5271.4
62.5°	3717.4	3771.6	4073.0	4526.0	5460.9	6446.2	6590.8	6575.8	6123.2	6245.0	5764.7
65°	2664.0	2725.5	3089.3	3770.0	5227.9	7561.1	7931.0	7728.1	6893.1	6850.7	6342.4
67.5°	1536.9	1551.6	1709.2	2255.9	3980.6	7619.4	9975.5	9691.5	8088.6	7537.9	6625.1
70°	1136.5	1136.1	1173.6	1388.2	2154.0	6218.5	10947.8	11202.4	9347.3	7764.0	6225.4
71°	1027.7	1029.0	1070.9	1263.6	1706.0	5205.1	10741.3	11298.5	9678.9	7652.4	5936.2
72.5°	879.0	883.1	941.4	1133.2	1435.1	3589.5	9851.6	10721.7	9836.2	7377.0	5483.7
75°	666.8	676.2	756.8	955.2	1311.6	1820.4	7230.4	8561.6	8738.0	6509.4	4074.7
77.5°	475.8	486.4	577.6	803.3	1246.9	1371.9	4842.1	6245.0	6430.3	4171.6	1837.9
80°	300.6	313.2	382.1	639.1	1171.5	1302.7	3042.9	4197.7	3506.4	1334.9	467.6
82.5°	176.4	186.2	237.1	417.5	956.9	1254.6	1790.3	2326.8	1364.6	403.3	212.6
85°	102.2	106.7	147.9	266.0	694.9	1184.2	1315.3	1300.7	592.3	197.2	100.6
87.5°	47.7	53.0	87.6	138.9	385.8	858.3	1039.5	898.2	368.2	92.5	47.3
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°	3240.0	3240.0	3240.0	3240.0	3240.0	3240.0	3240.0	3240.0	3240.0	3240.0	3240.0
2.5°	3211.9	3205.0	3176.1	3150.4	3123.5	3088.5	3049.8	3044.9	3021.3	3025.8	3017.6
5°	3148.4	3130.9	3061.2	2998.1	2923.5	2856.7	2784.2	2750.8	2702.7	2699.5	2687.3
7.5°	3057.5	3024.9	2917.0	2797.2	2677.5	2563.4	2450.6	2376.4	2300.7	2268.5	2265.7
10°	2955.3	2899.9	2741.0	2563.8	2391.1	2224.5	2063.2	1943.8	1836.3	1785.4	1783.4
12.5°	2858.3	2776.5	2558.5	2317.4	2081.1	1865.2	1644.0	1487.2	1352.4	1307.2	1288.0
15°	2776.1	2660.8	2380.9	2072.6	1785.8	1486.0	1234.3	1069.3	944.6	901.5	893.3
17.5°	2696.2	2547.9	2198.8	1825.3	1478.7	1149.1	897.0	774.4	708.0	690.4	690.0
20°	2616.8	2431.8	2008.6	1572.4	1181.7	859.5	689.6	634.6	612.2	610.2	606.9
22.5°	2526.8	2308.8	1808.6	1318.6	922.2	675.8	586.2	564.2	561.3	568.7	568.7
25°	2442.4	2186.6	1605.8	1070.1	717.3	563.8	523.4	519.0	526.7	539.7	541.0
27.5°	2363.8	2068.9	1407.8	849.3	574.8	496.6	479.9	485.1	499.0	514.1	514.5
30°	2299.1	1957.7	1215.5	669.3	485.6	446.4	443.6	454.2	469.3	481.1	483.9
32.5°	2249.0	1862.8	1029.8	538.1	427.3	409.0	411.4	420.4	429.7	436.3	440.7
35°	2225.7	1781.3	858.3	453.8	390.2	380.1	383.3	388.2	392.3	397.2	400.8
37.5°	2229.8	1718.2	705.1	401.2	365.4	360.1	360.1	360.1	360.1	362.5	362.9
40°	2267.7	1681.9	580.5	367.8	348.7	343.0	338.5	334.4	331.2	332.8	332.0
42.5°	2364.6	1678.7	489.2	346.7	335.2	325.9	316.9	311.2	307.1	308.8	309.6
45°	2529.2	1719.4	427.7	331.6	322.6	308.4	297.0	290.8	288.0	293.3	294.1
47.5°	2742.2	1808.2	390.2	320.6	310.8	292.1	279.8	274.1	275.0	282.7	284.7
50°	3016.8	1952.4	372.3	313.7	302.7	278.2	265.6	260.7	263.1	274.1	276.6
52.5°	3318.2	2160.1	374.3	311.6	297.4	268.0	254.6	248.9	253.0	263.1	265.2
55°	3666.1	2409.9	408.2	314.5	289.6	261.5	245.6	235.9	239.1	248.5	250.1
57.5°	4052.7	2695.8	476.2	313.7	279.8	255.4	236.3	221.6	224.0	229.7	231.4
60°	4455.1	3041.2	581.7	316.1	275.4	248.1	223.6	205.3	204.5	209.4	210.2
62.5°	4938.2	3440.8	702.3	317.7	278.2	238.7	206.9	189.0	186.6	187.8	188.6
65°	5436.0	3730.1	657.0	311.2	287.2	231.0	192.3	173.1	168.6	167.8	168.2
67.5°	5451.5	3420.1	460.7	298.2	290.8	226.9	181.3	159.7	152.3	149.5	149.1
70°	4889.0	2778.5	358.9	284.3	276.2	220.4	171.1	148.7	137.7	133.2	132.8
71°	4614.4	2557.7	340.1	277.4	265.2	213.9	166.6	143.8	132.4	127.5	126.7
72.5°	4183.8	2292.9	317.3	266.4	244.0	197.2	158.0	136.9	125.1	119.4	118.1
75°	3002.5	1499.4	272.5	237.5	202.0	157.2	138.5	123.0	112.8	105.9	105.1
77.5°	1156.9	596.8	206.1	197.6	154.8	123.0	114.1	106.3	99.0	92.1	91.7
80°	357.6	266.8	150.3	148.7	112.0	91.7	88.8	86.8	83.9	76.6	75.0
82.5°	191.0	153.2	103.5	96.1	73.3	61.1	64.4	65.2	65.6	57.8	57.0
85°	91.2	81.1	58.3	54.6	42.8	34.2	39.5	42.8	43.2	35.4	33.0
87.5°	43.6	42.4	27.3	20.8	15.9	11.4	13.8	17.1	18.7	13.4	11.8
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)