

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: P323117

Luminaire Tested: **GAN-SA3B-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12085 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

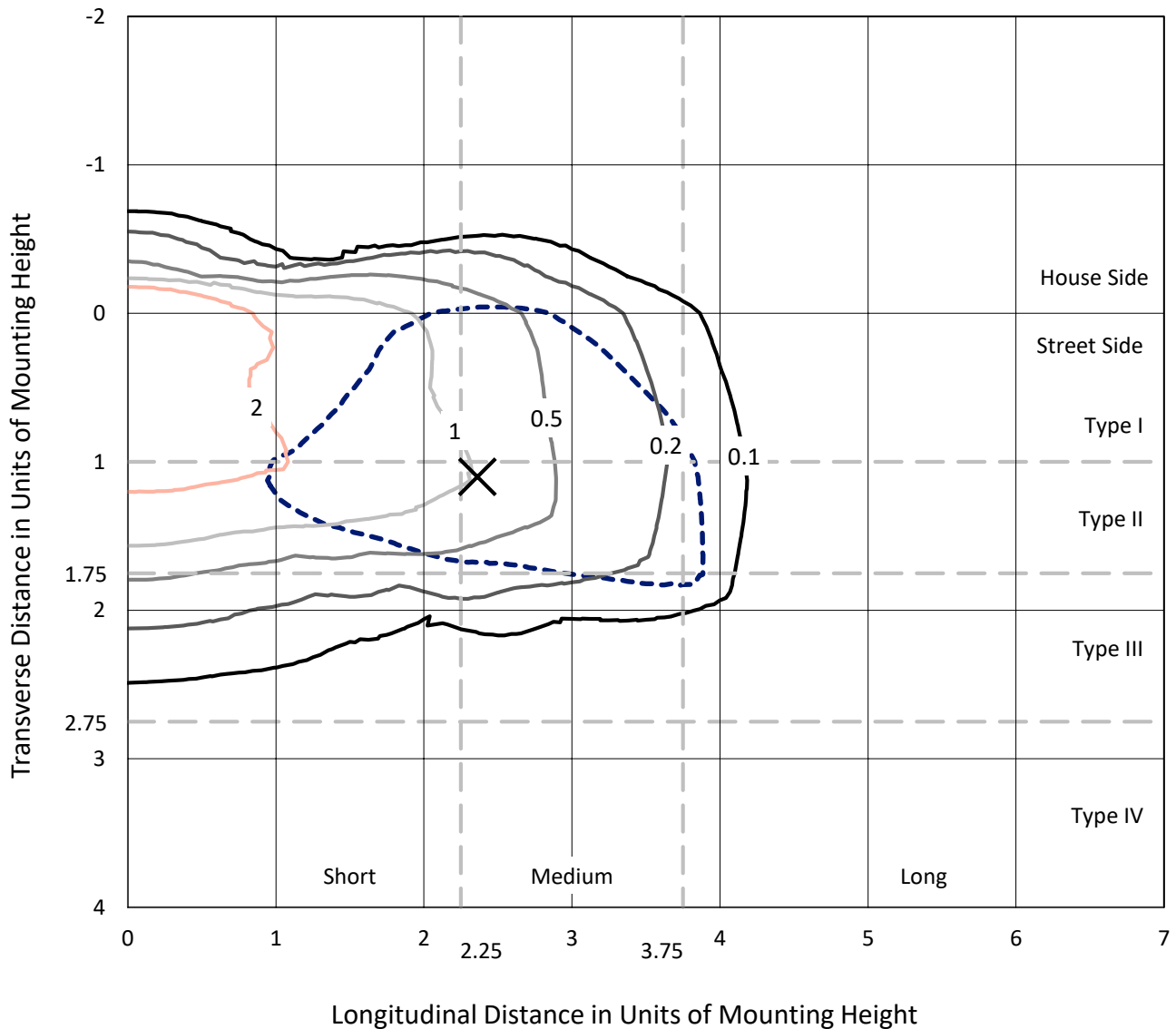
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

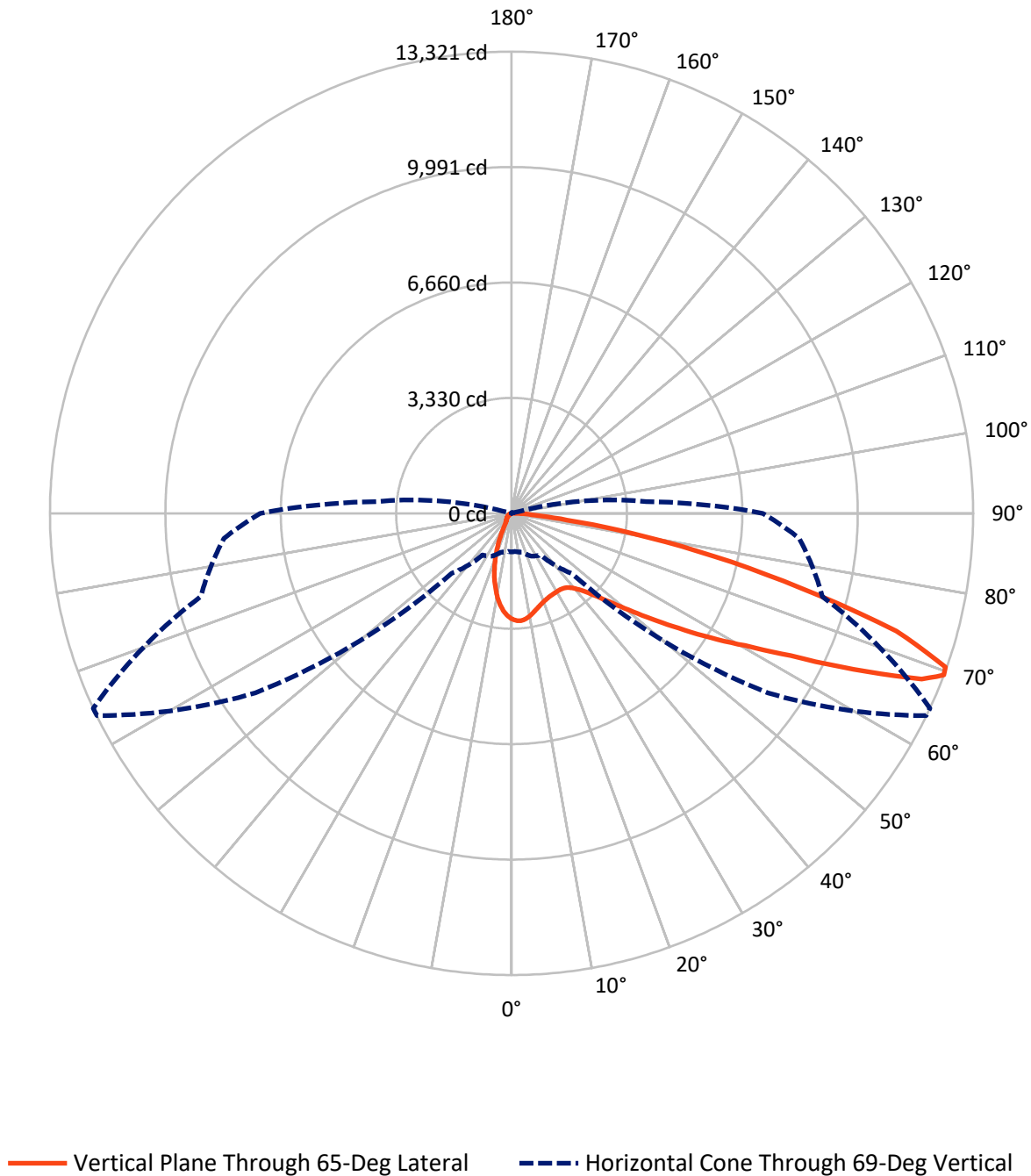
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1424.5	0.0	1424.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	10660.5	0.0	10660.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	12085.0	0.0	12085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.4	2.1
10°-20°	559.0	4.6
20°-30°	774.3	6.4
30°-40°	1079.6	8.9
40°-50°	1678.0	13.9
50°-60°	2693.8	22.3
60°-70°	3047.2	25.2
70°-80°	1789.6	14.8
80°-90°	208.2	1.7
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°	12085.0	100.0
0°-180°	12085.0	100.0

Coefficient of Utilization



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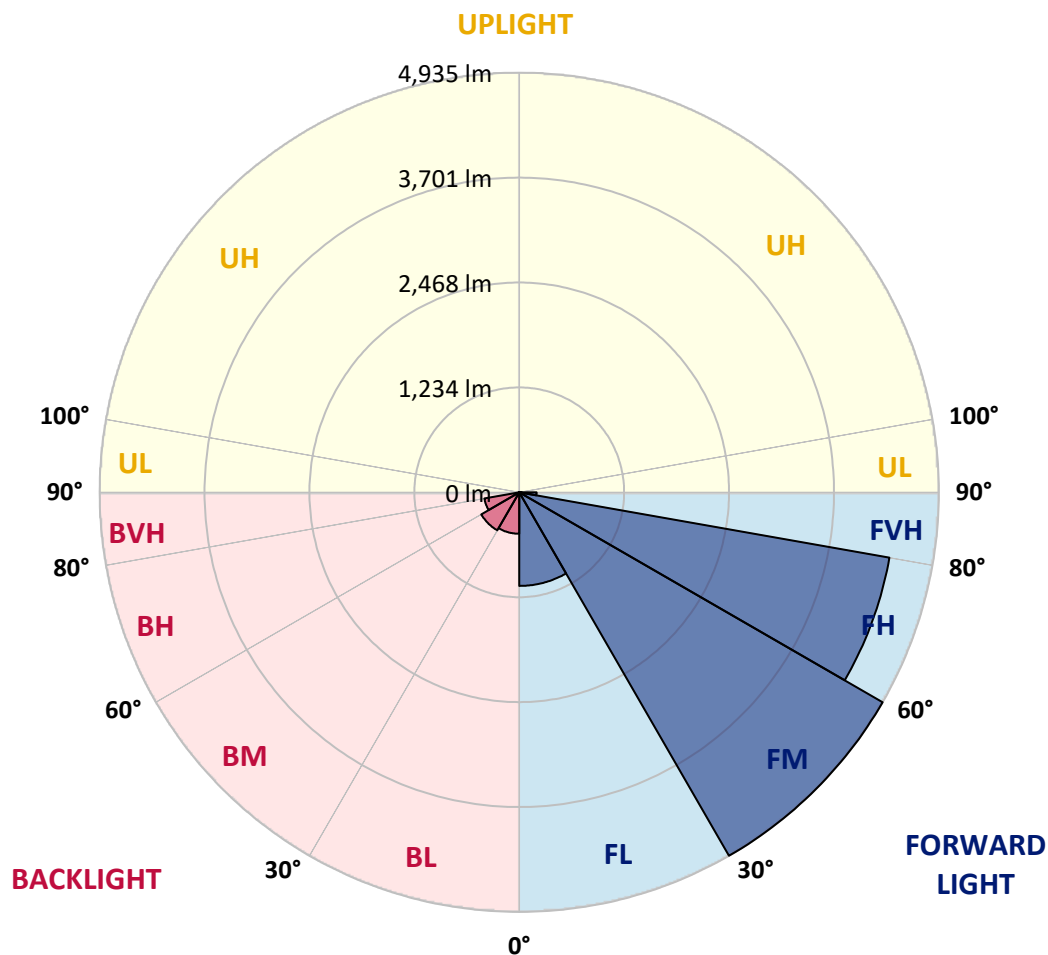
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1101.2	9.1			
FM	(30°-60°)	4935.2	40.8			
FH	(60°-80°)	4420.6	36.6			G2/5000
FVH	(80°-90°)	203.5	1.7			G2/225
BL	(0°-30°)	487.4	4.0	B1/500		
BM	(30°-60°)	516.2	4.3	B1/1000		
BH	(60°-80°)	416.2	3.4	B1/500		G1/500
BVH	(80°-90°)	4.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3053.9	3053.9	3053.9	3053.9	3053.9	3053.9	3053.9	3053.9	3053.9	3053.9	3053.9
2.5°	3081.0	3073.3	3079.5	3092.8	3099.4	3099.4	3104.5	3098.4	3100.4	3085.6	3064.1
5°	2888.2	2876.5	2893.3	2930.7	2976.7	3016.1	3074.4	3105.0	3108.1	3108.6	3083.6
7.5°	2680.6	2669.9	2694.9	2738.9	2798.2	2871.3	2973.1	3062.1	3067.2	3115.3	3096.9
10°	2511.8	2504.2	2533.3	2580.4	2649.9	2731.7	2856.5	2980.3	2995.1	3101.5	3094.8
12.5°	2377.9	2371.7	2399.3	2453.6	2524.6	2615.1	2745.5	2889.2	2909.2	3070.3	3084.6
15°	2280.2	2279.2	2302.2	2354.3	2433.1	2517.5	2650.9	2804.9	2827.9	3036.5	3083.0
17.5°	2229.1	2230.6	2247.5	2292.0	2359.5	2443.3	2571.2	2733.8	2758.8	3006.3	3090.7
20°	2223.9	2225.5	2234.7	2259.7	2314.5	2388.6	2506.2	2674.0	2700.0	2983.8	3103.0
22.5°	2268.9	2267.9	2270.5	2267.9	2298.6	2354.9	2463.3	2627.9	2658.1	2969.0	3112.7
25°	2355.4	2353.8	2352.8	2333.9	2313.4	2343.6	2445.4	2601.8	2630.5	2958.3	3118.3
27.5°	2475.5	2474.5	2473.0	2441.8	2380.4	2361.5	2447.4	2592.1	2616.2	2949.6	3117.3
30°	2633.6	2640.7	2638.7	2595.2	2499.6	2416.2	2468.9	2587.0	2608.0	2932.7	3106.6
32.5°	2819.2	2833.5	2844.8	2798.2	2678.6	2524.6	2518.5	2592.6	2608.0	2919.9	3087.1
35°	3012.0	3030.4	3071.8	3055.4	2897.9	2687.8	2603.9	2626.4	2639.2	2927.1	3077.9
37.5°	3201.7	3223.7	3313.7	3361.2	3185.3	2903.6	2736.9	2709.7	2716.4	2970.5	3088.2
40°	3422.1	3455.3	3591.9	3668.6	3528.5	3192.5	2935.8	2852.9	2855.5	3066.2	3135.7
42.5°	3711.5	3745.8	3893.6	4013.7	3915.0	3557.6	3205.8	3071.8	3069.2	3245.2	3247.7
45°	4064.4	4100.2	4253.1	4386.5	4342.0	3990.2	3551.5	3391.4	3388.3	3527.4	3459.9
47.5°	4464.3	4499.5	4636.1	4773.6	4821.7	4495.5	3991.8	3827.6	3820.4	3919.6	3787.7
50°	4807.4	4830.4	4956.2	5141.3	5358.1	5116.3	4539.4	4381.4	4373.7	4440.7	4268.9
52.5°	4932.2	4945.5	5073.3	5332.6	5873.6	5956.9	5258.9	5055.4	5049.8	5078.9	4909.7
55°	4679.5	4703.6	4860.6	5245.1	6152.8	6907.1	6167.1	5890.0	5847.5	5784.6	5579.6
57.5°	3991.2	4029.6	4198.3	4709.7	6022.4	7660.8	7501.8	6833.9	6771.6	6387.0	6124.2
60°	2990.5	3037.5	3177.7	3729.4	5326.4	7929.3	8960.2	7885.8	7745.2	6866.7	6624.8
62.5°	2052.1	2075.7	2170.8	2530.3	3922.7	7489.5	10180.4	9294.7	9038.0	7388.3	7166.3
65°	1567.3	1575.5	1614.4	1738.1	2335.9	6083.8	10665.6	11153.5	10843.1	8012.1	7728.3
67.5°	1263.1	1256.4	1310.1	1487.1	1564.3	3711.5	10099.6	12912.1	12766.9	8846.2	8293.9
69°	1113.8	1104.6	1159.3	1364.8	1469.2	2453.6	9028.7	13311.5	13320.7	9286.5	8332.8
70°	1002.3	1008.4	1062.6	1292.2	1436.9	1925.8	8006.0	13209.7	13282.3	9451.1	8099.6
72.5°	669.4	685.7	794.7	1072.9	1381.7	1457.4	4834.0	11335.5	11614.7	9080.4	6949.0
75°	377.4	389.7	519.0	809.0	1301.9	1387.9	2553.3	8351.2	8621.2	7593.3	5358.6
77.5°	185.1	191.8	293.5	522.1	1088.7	1322.4	1448.2	5672.6	5981.0	4956.2	3030.9
80°	78.2	81.8	146.8	322.2	778.3	1262.1	1075.4	3491.1	3529.5	1941.7	807.5
82.5°	30.2	31.2	61.9	201.0	494.5	983.9	899.5	1655.3	1615.4	365.6	184.1
85°	3.6	4.1	22.5	120.7	275.1	506.3	730.7	713.4	660.2	72.6	94.6
87.5°	0.0	0.0	1.5	36.8	81.8	237.3	379.9	296.1	266.9	23.5	49.1
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°	3053.9	3053.9	3053.9	3053.9	3053.9	3053.9	3053.9	3053.9	3053.9	3053.9	3053.9
2.5°	3046.2	3041.1	3013.5	2973.6	2935.8	2888.7	2843.7	2816.6	2795.1	2780.8	2797.7
5°	3054.4	3031.9	2948.0	2840.7	2735.3	2616.7	2506.2	2412.6	2375.8	2334.9	2353.3
7.5°	3051.9	3009.4	2858.6	2667.3	2474.0	2274.1	2084.9	1939.1	1863.4	1789.3	1808.2
10°	3039.1	2967.5	2738.9	2455.6	2166.2	1878.8	1610.3	1406.3	1292.2	1188.9	1203.8
12.5°	3010.9	2911.2	2597.8	2213.2	1826.1	1447.2	1132.7	871.4	731.3	669.4	677.1
15°	2994.1	2856.5	2448.4	1967.8	1463.0	1007.9	692.4	514.9	451.0	430.6	433.1
17.5°	2985.9	2803.8	2294.0	1687.0	1091.8	641.8	447.4	394.8	381.0	377.4	378.4
20°	2977.7	2750.7	2135.0	1409.3	752.2	431.6	367.7	352.3	347.2	342.6	343.6
22.5°	2963.9	2699.5	1964.2	1128.1	507.3	350.3	331.4	316.5	305.8	300.2	301.2
25°	2947.0	2645.8	1789.8	840.2	370.2	312.4	294.5	273.6	260.8	250.6	251.1
27.5°	2919.9	2579.9	1609.8	611.6	310.9	279.7	255.7	232.7	211.2	199.4	199.4
30°	2882.1	2505.2	1409.8	437.7	278.7	247.5	218.4	189.7	166.7	156.0	154.9
32.5°	2840.1	2427.5	1207.9	331.9	253.1	217.3	184.1	153.9	133.5	124.8	124.3
35°	2804.4	2343.6	1006.4	278.2	227.6	188.2	151.9	126.3	109.9	102.8	102.3
37.5°	2781.3	2259.7	810.0	248.5	204.5	161.1	127.3	104.3	92.6	86.9	86.4
40°	2777.8	2197.4	630.5	226.0	183.1	137.0	106.4	88.5	77.7	71.6	71.1
42.5°	2824.3	2161.6	483.8	207.1	161.1	116.1	90.5	75.7	64.4	58.3	57.8
45°	2946.5	2172.8	372.3	190.2	139.1	98.2	76.7	62.9	52.7	48.1	47.0
47.5°	3169.5	2250.5	296.1	173.4	118.1	83.4	65.5	52.2	43.5	38.9	38.4
50°	3566.3	2433.1	247.5	154.9	98.7	71.1	54.2	42.4	35.3	31.2	30.7
52.5°	4093.0	2758.3	220.9	137.0	81.8	60.3	44.5	33.8	27.6	24.5	24.0
55°	4673.9	3152.1	203.5	117.6	67.0	50.1	35.3	26.6	21.5	18.9	17.9
57.5°	5241.0	3493.2	187.2	98.7	55.7	40.9	28.1	21.0	16.9	14.3	13.8
60°	5762.1	3806.6	168.2	79.3	45.5	32.2	22.0	16.4	13.3	10.7	10.7
62.5°	6320.0	4049.0	142.2	61.9	37.3	24.5	17.9	14.8	10.7	9.2	8.7
65°	6911.2	4229.0	111.5	48.1	29.1	18.4	14.8	15.3	8.7	6.6	6.1
67.5°	7347.9	4193.2	82.3	37.8	22.5	14.3	14.3	16.4	7.7	5.1	4.6
69°	7251.7	3902.3	69.0	32.7	19.4	12.3	13.3	16.4	7.2	4.6	4.1
70°	6973.0	3580.1	60.9	29.1	17.4	11.3	12.8	15.9	6.6	4.6	4.1
72.5°	5807.1	2696.5	47.6	22.0	13.8	9.2	10.7	13.8	6.6	4.6	3.6
75°	4368.1	1725.9	36.3	15.9	10.2	7.2	8.2	10.2	6.6	4.1	3.6
77.5°	2376.8	622.3	26.1	10.7	7.2	5.6	5.6	7.7	6.1	3.1	2.0
80°	611.1	156.5	16.4	7.2	5.6	4.1	3.6	5.1	3.6	0.5	0.0
82.5°	150.9	35.3	8.7	5.1	4.1	1.5	1.5	2.6	1.5	0.0	0.0
85°	82.8	17.4	5.6	3.6	2.0	0.0	0.0	0.5	0.0	0.0	0.0
87.5°	42.4	5.1	1.5	1.0	0.5	0.0	0.0	0.0	0.0	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)