

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: P323267

Luminaire Tested: **GAN-SA3A-760-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323267
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-SA3A-760-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 615mA 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: 11784 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

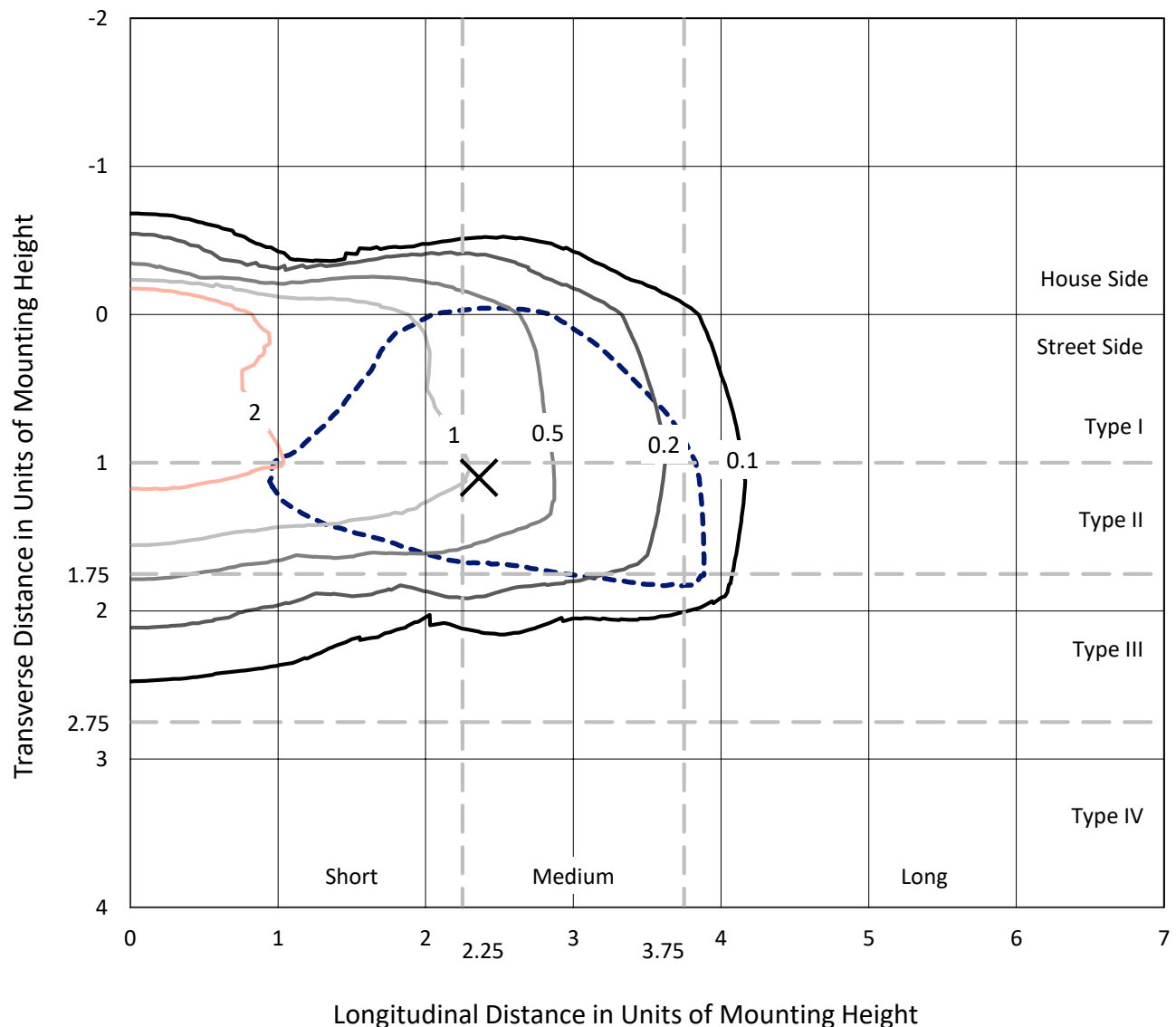
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

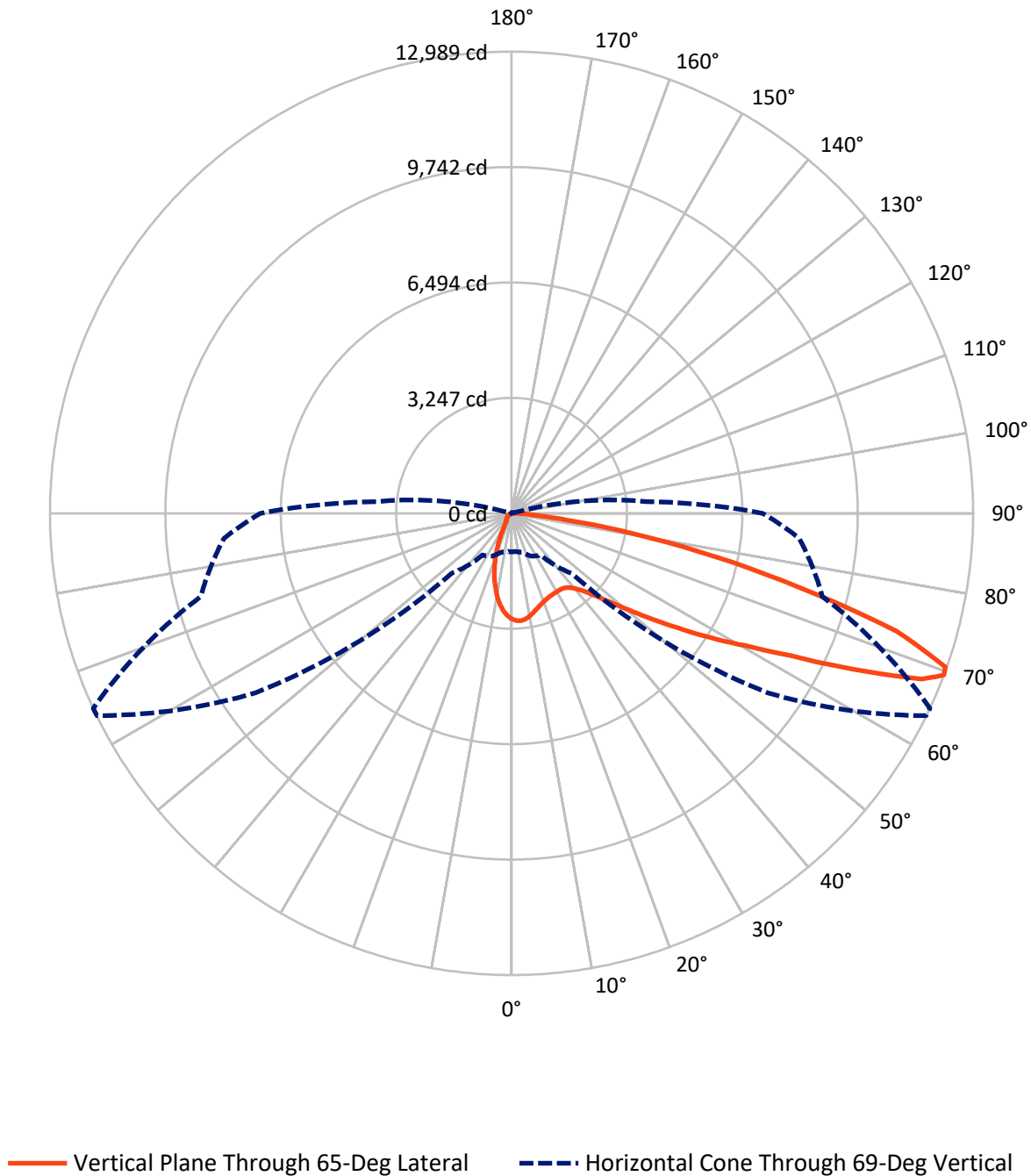
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	1389.1	0.0	1389.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	10394.9	0.0	10394.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	11784.0	0.0	11784.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.0	2.1
10°-20°	545.1	4.6
20°-30°	755.0	6.4
30°-40°	1052.7	8.9
40°-50°	1636.2	13.9
50°-60°	2626.7	22.3
60°-70°	2971.3	25.2
70°-80°	1745.1	14.8
80°-90°	203.0	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°	11784.0	100.0
0°-180°	11784.0	100.0

Coefficient of Utilization



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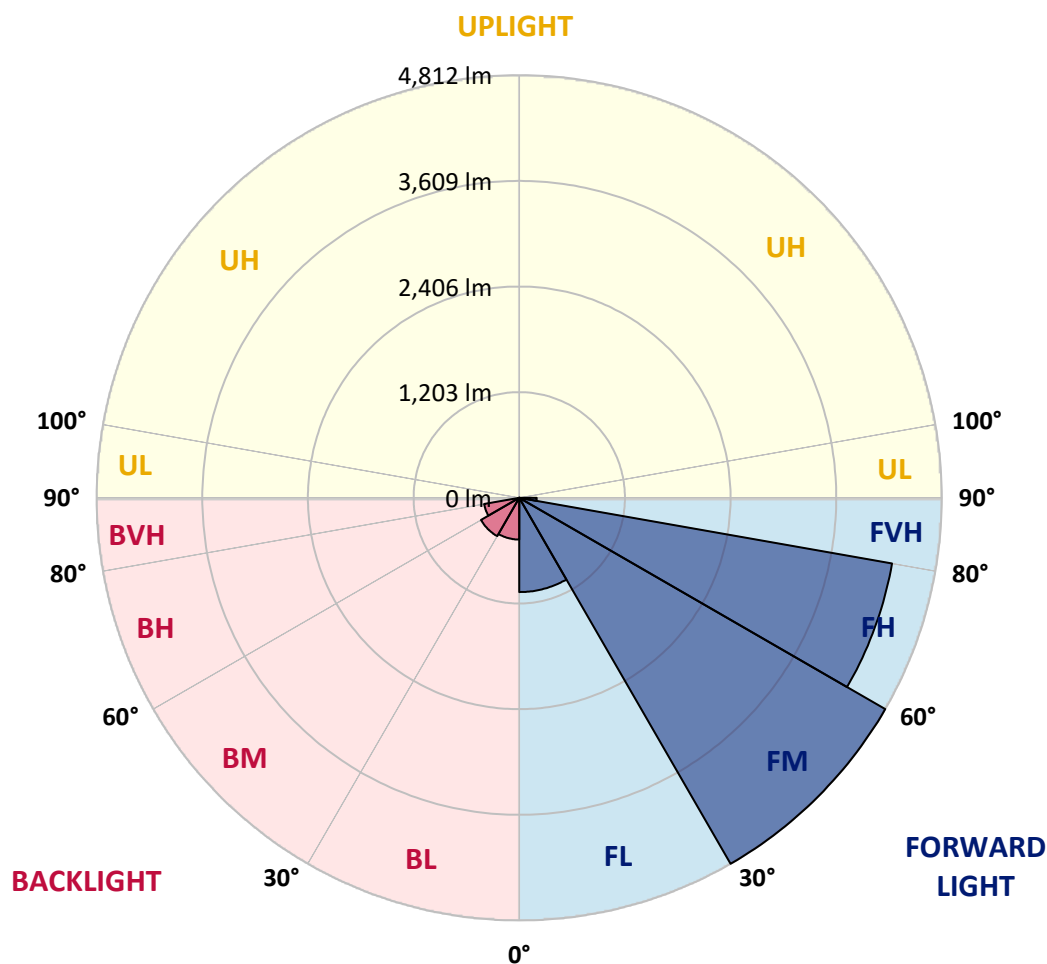
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1073.8	9.1			
FM	(30°-60°)	4812.2	40.8			
FH	(60°-80°)	4310.5	36.6			G2/5000
FVH	(80°-90°)	198.4	1.7			G2/225
BL	(0°-30°)	475.3	4.0	B1/500		
BM	(30°-60°)	503.4	4.3	B1/1000		
BH	(60°-80°)	405.9	3.4	B1/500		G1/500
BVH	(80°-90°)	4.6	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°	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8
2.5°	3004.3	2996.8	3002.8	3015.7	3022.2	3022.2	3027.2	3021.2	3023.2	3008.8	2987.8
5°	2816.3	2804.8	2821.3	2857.7	2902.5	2940.9	2997.8	3027.7	3030.7	3031.2	3006.8
7.5°	2613.8	2603.4	2627.8	2670.7	2728.5	2799.8	2899.1	2985.8	2990.8	3037.7	3019.7
10°	2449.3	2441.8	2470.2	2516.1	2583.9	2663.7	2785.4	2906.0	2920.5	3024.2	3017.7
12.5°	2318.6	2312.7	2339.6	2392.4	2461.8	2550.0	2677.2	2817.3	2836.7	2993.8	3007.8
15°	2223.4	2222.4	2244.8	2295.7	2372.5	2454.8	2584.9	2735.0	2757.4	2960.9	3006.3
17.5°	2173.5	2175.0	2191.5	2234.9	2300.7	2382.5	2507.1	2665.7	2690.1	2931.5	3013.7
20°	2168.6	2170.1	2179.0	2203.5	2256.8	2329.1	2443.8	2607.4	2632.8	2909.5	3025.7
22.5°	2212.4	2211.4	2213.9	2211.4	2241.4	2296.2	2401.9	2562.5	2591.9	2895.1	3035.2
25°	2296.7	2295.2	2294.2	2275.8	2255.8	2285.2	2384.5	2537.0	2565.0	2884.6	3040.7
27.5°	2413.9	2412.9	2411.4	2381.0	2321.1	2302.7	2386.5	2527.6	2551.0	2876.1	3039.7
30°	2568.0	2574.9	2572.9	2530.6	2437.3	2356.0	2407.4	2522.6	2543.0	2859.7	3029.2
32.5°	2749.0	2762.9	2773.9	2728.5	2611.8	2461.8	2455.8	2528.1	2543.0	2847.2	3010.2
35°	2936.9	2954.9	2995.3	2979.3	2825.8	2620.8	2539.0	2561.0	2573.4	2854.2	3001.3
37.5°	3121.9	3143.4	3231.1	3277.5	3106.0	2831.2	2668.7	2642.3	2648.7	2896.6	3011.2
40°	3336.9	3369.3	3502.4	3577.2	3440.6	3113.0	2862.7	2781.9	2784.4	2989.8	3057.6
42.5°	3619.1	3652.5	3796.6	3913.8	3817.5	3469.0	3125.9	2995.3	2992.8	3164.3	3166.8
45°	3963.1	3998.0	4147.1	4277.3	4233.9	3890.8	3463.0	3306.9	3303.9	3439.6	3373.8
47.5°	4353.1	4387.5	4520.6	4654.7	4701.6	4383.5	3892.3	3732.3	3725.3	3822.0	3693.4
50°	4687.7	4710.1	4832.8	5013.3	5224.7	4988.8	4426.4	4272.3	4264.8	4330.1	4162.6
52.5°	4809.3	4822.3	4946.9	5199.7	5727.3	5808.6	5127.9	4929.5	4924.0	4952.4	4787.4
55°	4563.0	4586.4	4739.5	5114.5	5999.6	6735.0	6013.5	5743.3	5701.9	5640.5	5440.6
57.5°	3891.8	3929.2	4093.8	4592.4	5872.4	7470.0	7314.9	6663.7	6602.9	6227.9	5971.6
60°	2916.0	2961.9	3098.5	3636.5	5193.8	7731.8	8737.1	7689.4	7552.3	6695.6	6459.8
62.5°	2001.0	2024.0	2116.7	2467.2	3825.0	7303.0	9926.8	9063.2	8812.8	7204.3	6987.8
65°	1528.3	1536.3	1574.2	1694.9	2277.8	5932.2	10400.0	10875.7	10573.0	7812.6	7535.8
67.5°	1231.6	1225.1	1277.5	1450.0	1525.3	3619.1	9848.0	12590.5	12448.9	8625.9	8087.3
69°	1086.0	1077.0	1130.4	1330.9	1432.6	2392.4	8803.9	12979.9	12988.9	9055.2	8125.2
70°	977.3	983.3	1036.2	1260.0	1401.2	1877.9	7806.6	12880.7	12951.5	9215.7	7897.9
72.5°	652.7	668.7	774.9	1046.1	1347.3	1421.1	4713.6	11053.2	11325.5	8854.2	6775.9
75°	368.0	380.0	506.1	788.8	1269.5	1353.3	2489.7	8143.2	8406.5	7404.2	5225.2
77.5°	180.5	187.0	286.2	509.1	1061.6	1289.5	1412.1	5531.3	5832.0	4832.8	2955.4
80°	76.3	79.8	143.1	314.1	758.9	1230.6	1048.6	3404.2	3441.6	1893.3	787.3
82.5°	29.4	30.4	60.3	196.0	482.2	959.4	877.1	1614.1	1575.2	356.5	179.5
85°	3.5	4.0	21.9	117.7	268.3	493.6	712.5	695.6	643.7	70.8	92.2
87.5°	0.0	0.0	1.5	35.9	79.8	231.4	370.5	288.7	260.3	22.9	47.9
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°	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8	2977.8
2.5°	2970.4	2965.4	2938.4	2899.6	2862.7	2816.8	2772.9	2746.5	2725.5	2711.6	2728.0
5°	2978.3	2956.4	2874.6	2769.9	2667.2	2551.5	2443.8	2352.6	2316.6	2276.8	2294.7
7.5°	2975.8	2934.5	2787.4	2600.9	2412.4	2217.4	2032.9	1890.8	1817.0	1744.7	1763.2
10°	2963.4	2893.6	2670.7	2394.4	2112.2	1832.0	1570.2	1371.2	1260.0	1159.3	1173.8
12.5°	2936.0	2838.7	2533.1	2158.1	1780.6	1411.1	1104.5	849.7	713.0	652.7	660.2
15°	2919.5	2785.4	2387.5	1918.7	1426.6	982.8	675.1	502.1	439.8	419.8	422.3
17.5°	2911.5	2734.0	2236.9	1645.0	1064.6	625.8	436.3	384.9	371.5	368.0	369.0
20°	2903.5	2682.1	2081.8	1374.2	733.5	420.8	358.5	343.6	338.6	334.1	335.1
22.5°	2890.1	2632.3	1915.3	1100.0	494.6	341.6	323.1	308.7	298.2	292.7	293.7
25°	2873.6	2579.9	1745.2	819.3	361.0	304.7	287.2	266.8	254.3	244.3	244.8
27.5°	2847.2	2515.6	1569.7	596.4	303.2	272.8	249.3	226.9	205.9	194.5	194.5
30°	2810.3	2442.8	1374.7	426.8	271.8	241.3	212.9	185.0	162.6	152.1	151.1
32.5°	2769.4	2367.0	1177.8	323.6	246.8	211.9	179.5	150.1	130.1	121.7	121.2
35°	2734.5	2285.2	981.3	271.3	221.9	183.5	148.1	123.2	107.2	100.2	99.7
37.5°	2712.1	2203.5	789.8	242.3	199.5	157.1	124.2	101.7	90.3	84.8	84.3
40°	2708.6	2142.6	614.8	220.4	178.5	133.6	103.7	86.3	75.8	69.8	69.3
42.5°	2754.0	2107.7	471.7	201.9	157.1	113.2	88.3	73.8	62.8	56.8	56.3
45°	2873.1	2118.7	363.0	185.5	135.6	95.7	74.8	61.3	51.4	46.9	45.9
47.5°	3090.5	2194.5	288.7	169.0	115.2	81.3	63.8	50.9	42.4	37.9	37.4
50°	3477.5	2372.5	241.3	151.1	96.2	69.3	52.9	41.4	34.4	30.4	29.9
52.5°	3991.1	2689.6	215.4	133.6	79.8	58.8	43.4	32.9	26.9	23.9	23.4
55°	4557.5	3073.6	198.5	114.7	65.3	48.9	34.4	25.9	20.9	18.4	17.5
57.5°	5110.5	3406.2	182.5	96.2	54.4	39.9	27.4	20.4	16.5	14.0	13.5
60°	5618.6	3711.8	164.1	77.3	44.4	31.4	21.4	16.0	13.0	10.5	10.5
62.5°	6162.6	3948.2	138.6	60.3	36.4	23.9	17.5	14.5	10.5	9.0	8.5
65°	6739.0	4123.7	108.7	46.9	28.4	18.0	14.5	15.0	8.5	6.5	6.0
67.5°	7164.9	4088.8	80.3	36.9	21.9	14.0	14.0	16.0	7.5	5.0	4.5
69°	7071.1	3805.1	67.3	31.9	18.9	12.0	13.0	16.0	7.0	4.5	4.0
70°	6799.4	3490.9	59.3	28.4	17.0	11.0	12.5	15.5	6.5	4.5	4.0
72.5°	5662.5	2629.3	46.4	21.4	13.5	9.0	10.5	13.5	6.5	4.5	3.5
75°	4259.3	1682.9	35.4	15.5	10.0	7.0	8.0	10.0	6.5	4.0	3.5
77.5°	2317.6	606.8	25.4	10.5	7.0	5.5	5.5	7.5	6.0	3.0	2.0
80°	595.9	152.6	16.0	7.0	5.5	4.0	3.5	5.0	3.5	0.5	0.0
82.5°	147.1	34.4	8.5	5.0	4.0	1.5	1.5	2.5	1.5	0.0	0.0
85°	80.8	17.0	5.5	3.5	2.0	0.0	0.0	0.5	0.0	0.0	0.0
87.5°	41.4	5.0	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)