

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: P321678

Luminaire Tested: **GAN-SA4B-760-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-760-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17729 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

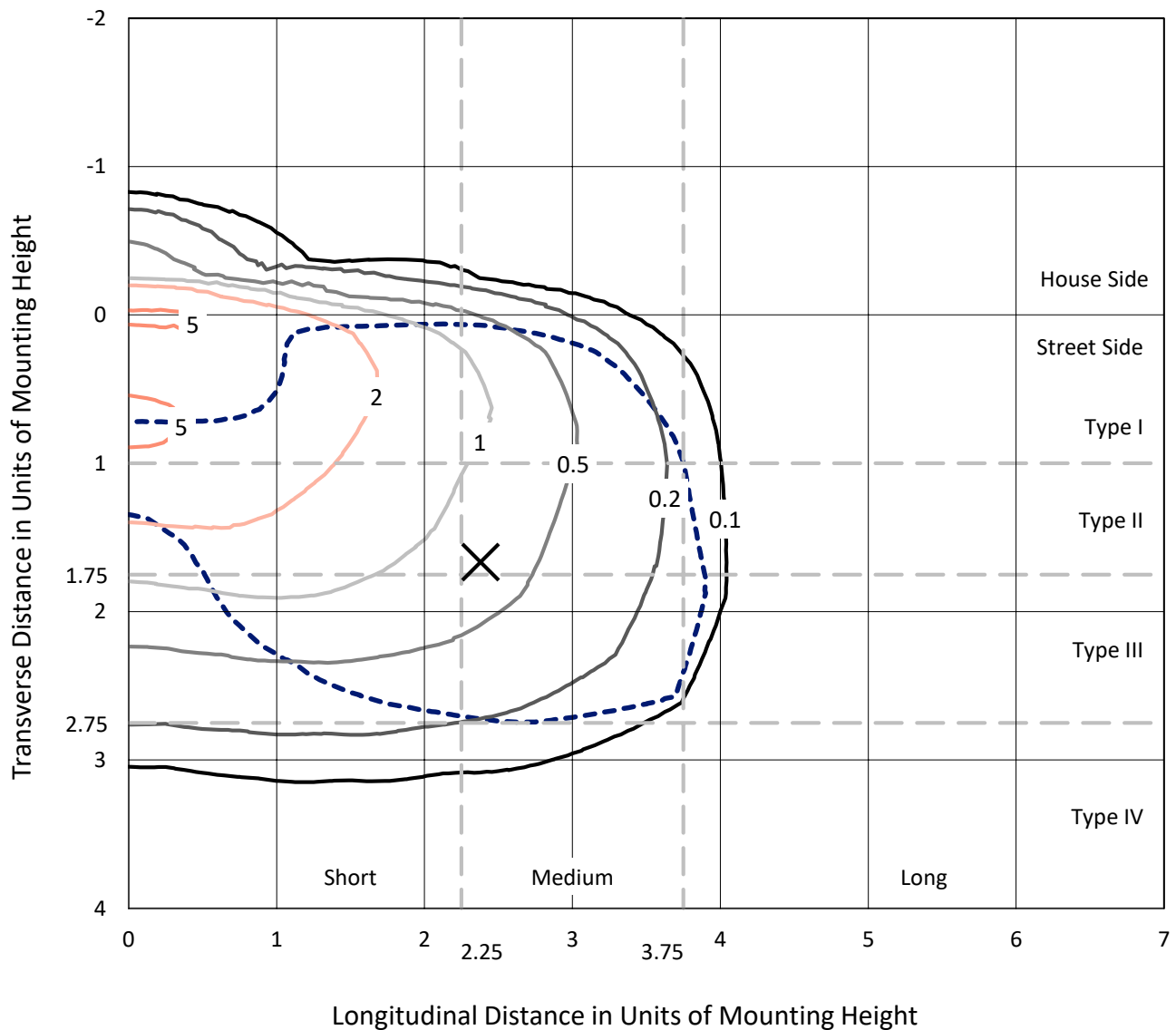
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

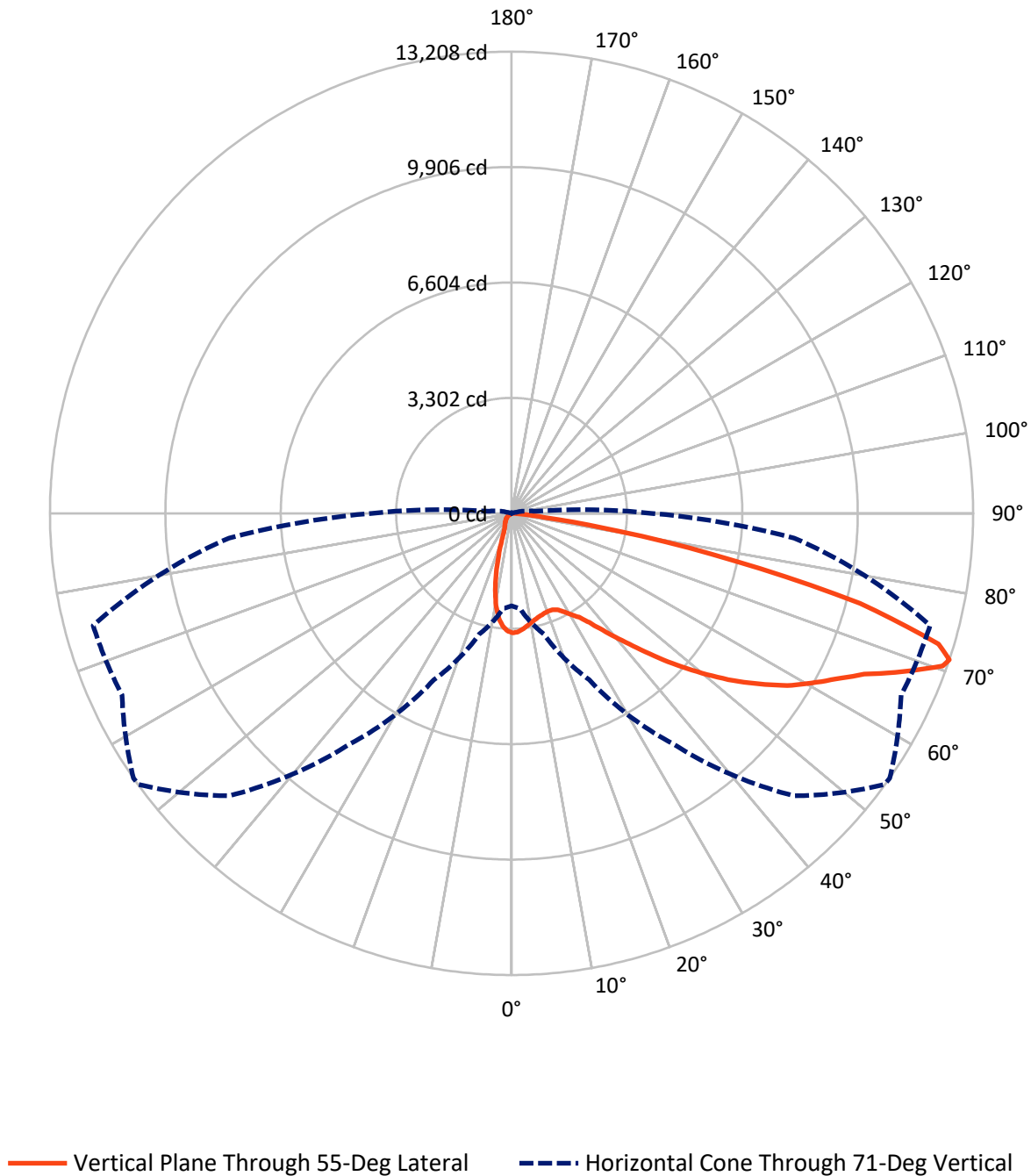
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	1403.7	0.0	1403.7
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	16325.3	0.0	16325.3
	% Fixture	92.1	0.0	92.1
Total	Lumens	17729.0	0.0	17729.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.5	1.6
10°-20°	658.1	3.7
20°-30°	1057.6	6.0
30°-40°	1797.0	10.1
40°-50°	2789.2	15.7
50°-60°	3750.0	21.2
60°-70°	4587.4	25.9
70°-80°	2682.2	15.1
80°-90°	115.9	0.7
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°	17729.0	100.0
0°-180°	17729.0	100.0

Coefficient of Utilization



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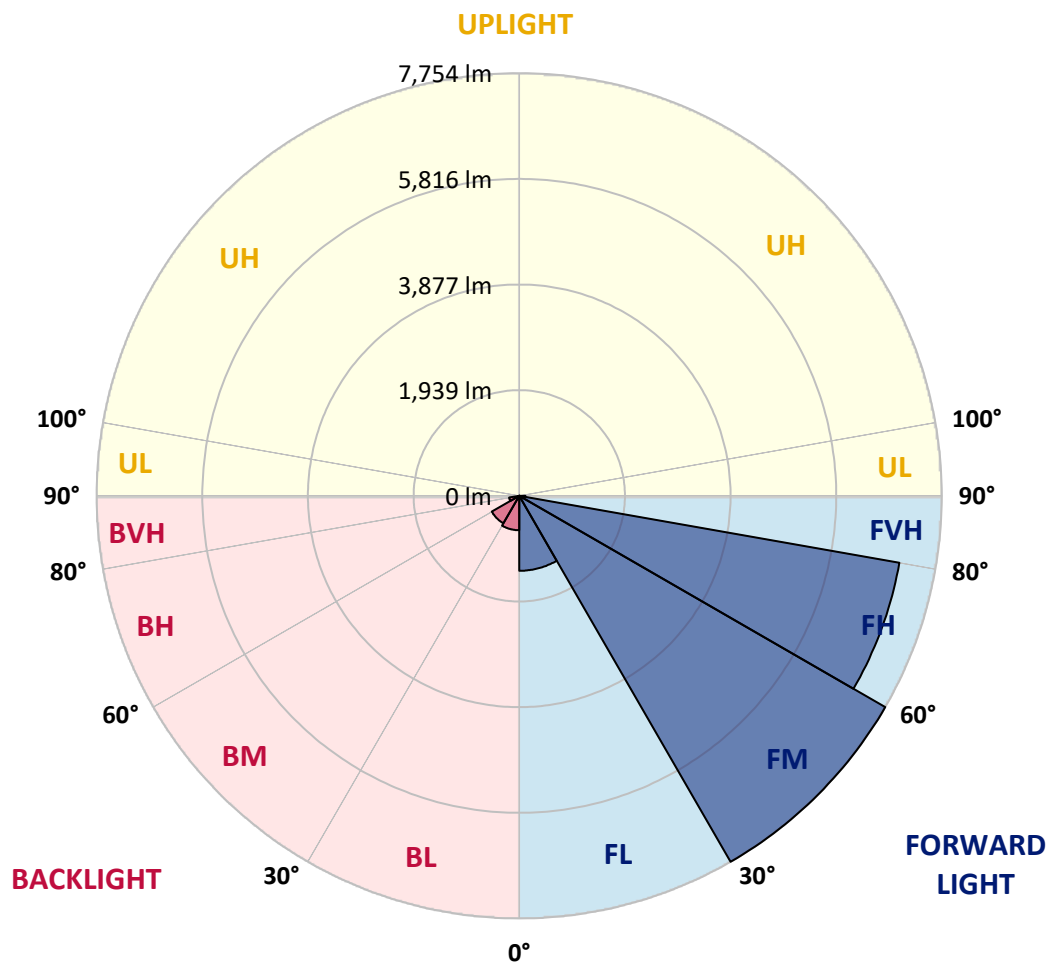
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1375.5	7.8			
FM	(30°-60°)	7754.1	43.7			
FH	(60°-80°)	7081.6	39.9			G3/7500
FVH	(80°-90°)	114.1	0.6			G2/225
BL	(0°-30°)	631.8	3.6	B2/1000		
BM	(30°-60°)	582.0	3.3	B1/1000		
BH	(60°-80°)	188.1	1.1	B1/500		G1/500
BVH	(80°-90°)	1.8	0.0			G0/10
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°	54°	55°	65°	75°	85°
0°	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1
2.5°	3318.8	3322.8	3337.1	3343.5	3358.6	3384.1	3396.8	3397.6	3418.3	3426.3	3432.6
5°	3084.0	3107.8	3131.7	3157.2	3203.4	3264.7	3325.2	3330.7	3397.6	3447.0	3473.2
7.5°	2881.8	2903.3	2931.9	2972.5	3037.8	3134.1	3235.2	3247.2	3373.7	3486.0	3544.9
10°	2674.0	2691.5	2732.9	2792.6	2882.6	3011.5	3147.6	3167.5	3352.2	3538.5	3642.0
12.5°	2451.9	2462.2	2512.4	2598.4	2730.5	2894.5	3073.6	3099.9	3338.7	3599.0	3756.6
15°	2283.1	2287.9	2335.7	2424.8	2576.1	2789.4	3016.3	3048.1	3341.9	3671.5	3881.6
17.5°	2240.1	2242.5	2268.0	2329.3	2463.0	2695.5	2970.9	3009.9	3351.4	3742.3	4007.4
20°	2414.5	2397.7	2371.5	2361.9	2419.2	2639.0	2943.9	2987.6	3364.2	3805.2	4120.4
22.5°	2892.9	2843.5	2734.5	2588.8	2500.4	2642.9	2951.0	2994.8	3404.8	3882.4	4251.0
25°	3603.0	3534.5	3349.0	3062.5	2787.0	2757.6	3010.7	3055.3	3483.6	3974.8	4376.0
27.5°	4411.0	4343.3	4116.5	3707.3	3237.6	2984.4	3147.6	3189.0	3600.6	4056.7	4471.5
30°	5184.8	5165.7	4898.2	4433.3	3804.4	3352.2	3324.4	3359.4	3687.4	4106.1	4547.1
32.5°	5840.7	5810.5	5595.5	5143.4	4453.2	3794.0	3532.1	3542.5	3752.7	4169.8	4645.8
35°	6448.9	6411.5	6222.8	5795.4	5118.7	4333.8	3852.2	3837.0	3895.1	4298.0	4789.1
37.5°	6979.9	7014.1	6804.8	6398.0	5715.8	4895.0	4283.6	4238.3	4118.0	4506.5	4996.9
40°	7424.1	7424.1	7315.0	6975.9	6360.6	5475.3	4771.6	4711.9	4453.2	4828.1	5260.4
42.5°	7584.1	7618.3	7658.9	7467.1	6937.7	6078.8	5315.3	5253.2	4925.3	5284.3	5593.2
45°	7593.7	7647.8	7855.6	7854.8	7459.1	6678.2	5928.3	5898.8	5530.3	5870.2	6005.5
47.5°	7459.1	7526.8	7869.1	8063.3	7872.3	7236.2	6598.6	6562.0	6241.2	6588.2	6437.0
50°	7251.4	7326.2	7724.2	8145.3	8153.3	7721.8	7304.7	7249.8	7023.7	7409.0	6882.8
52.5°	6879.6	7024.5	7594.5	8164.4	8338.0	8141.4	7976.6	7952.7	7899.4	8199.5	7237.8
55°	6084.3	6245.1	7268.9	8170.8	8509.1	8513.1	8606.3	8612.6	8720.1	8938.2	7502.1
57.5°	5708.6	5799.3	6700.5	8201.1	8763.1	8935.0	9247.9	9297.2	9463.6	9639.6	7803.8
60°	5472.2	5579.6	6420.3	8159.7	9161.9	9488.3	9842.6	9859.3	10037.6	10363.2	8212.2
62.5°	5283.5	5389.4	6243.5	8000.5	9610.1	10153.8	10423.7	10425.3	10559.0	11225.3	8676.3
65°	4817.8	4906.9	5886.1	7821.3	9906.2	10812.2	11098.7	11088.4	11197.5	12134.4	9215.3
67.5°	4144.3	4212.8	5156.1	7142.3	9794.8	11410.8	12117.7	12083.5	11951.3	12920.1	9427.0
70°	3204.2	3228.8	4063.9	5952.2	8750.4	11640.9	13102.4	13084.9	12413.8	12779.2	8650.8
71°	2648.5	2729.7	3581.5	5253.2	8050.6	11428.3	13198.0	13208.3	12297.6	12395.5	8116.7
72.5°	1538.0	1607.3	2596.0	4034.5	6835.0	10541.5	12702.8	12777.6	11754.7	11274.7	6932.9
75°	329.6	352.7	962.4	1952.7	3759.8	7388.3	10026.4	10293.1	9580.6	7670.1	4178.5
77.5°	229.3	247.6	412.4	886.0	1242.7	3650.8	6228.4	6529.3	5723.7	2882.6	1337.4
80°	181.5	202.2	321.6	437.8	335.9	1177.4	2917.6	3101.5	1909.0	643.2	225.3
82.5°	101.1	120.2	250.8	236.4	129.0	223.7	816.8	923.4	382.1	129.8	53.3
85°	29.5	35.8	161.6	172.0	54.9	43.0	139.3	172.7	72.4	34.2	23.9
87.5°	0.0	0.0	78.0	66.1	15.9	6.4	12.7	14.3	14.3	14.3	15.9
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°	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1	3419.1
2.5°	3432.6	3438.2	3418.3	3392.0	3364.2	3329.9	3294.1	3266.3	3265.5	3251.9	3238.4
5°	3474.8	3471.6	3416.7	3333.1	3234.4	3131.7	3033.8	2923.2	2886.5	2841.2	2826.0
7.5°	3552.8	3530.6	3414.3	3231.2	3014.7	2799.8	2577.7	2354.0	2258.4	2172.5	2157.3
10°	3650.8	3608.6	3399.2	3078.4	2681.1	2284.7	1949.6	1645.5	1511.7	1409.0	1404.3
12.5°	3752.7	3688.2	3357.0	2847.5	2244.1	1686.9	1300.8	1001.5	890.0	818.4	824.7
15°	3859.3	3763.0	3266.3	2536.3	1746.6	1144.7	799.2	623.3	578.7	560.4	565.2
17.5°	3968.4	3814.7	3139.7	2161.3	1255.4	738.7	553.3	503.9	503.9	507.9	509.5
20°	4063.1	3842.6	2953.4	1741.0	851.0	538.1	484.0	476.8	480.8	487.2	488.0
22.5°	4157.1	3844.2	2710.6	1315.1	595.5	471.3	460.9	457.7	460.1	467.3	468.1
25°	4233.5	3825.1	2406.5	935.4	475.3	444.2	439.4	437.8	439.4	448.2	448.2
27.5°	4264.5	3755.8	2035.5	657.6	425.9	414.0	412.4	414.0	416.3	422.7	423.5
30°	4267.7	3634.8	1631.1	476.0	386.1	373.4	376.5	382.1	379.7	378.1	379.7
32.5°	4275.7	3494.7	1237.1	391.7	352.7	332.8	328.8	328.8	319.2	313.6	310.5
35°	4301.9	3329.9	897.2	351.9	318.4	295.3	280.2	262.7	244.4	234.8	232.5
37.5°	4343.3	3157.2	642.4	325.6	288.2	261.9	233.2	202.2	175.9	168.8	168.8
40°	4419.0	2978.9	475.3	304.9	264.3	231.7	188.7	148.1	124.2	120.2	120.2
42.5°	4538.4	2791.0	378.9	286.6	243.6	200.6	144.1	107.5	90.0	87.6	86.8
45°	4662.6	2584.0	331.2	269.1	221.3	164.8	106.7	79.6	69.3	66.9	66.9
47.5°	4786.7	2363.5	308.1	252.4	199.8	128.2	79.6	62.9	58.1	58.1	58.9
50°	4891.8	2133.5	291.4	234.0	172.0	97.1	62.9	53.3	51.7	54.9	55.7
52.5°	4918.1	1907.4	270.7	211.0	137.7	74.0	51.7	47.0	47.0	47.0	47.0
55°	4902.2	1732.2	243.6	182.3	101.9	58.9	44.6	41.4	40.6	40.6	40.6
57.5°	4956.3	1628.7	195.0	141.7	73.2	47.8	39.0	36.6	35.0	34.2	34.2
60°	5065.4	1561.1	139.3	101.9	54.9	39.8	33.4	31.0	28.7	27.1	27.1
62.5°	5210.2	1502.2	103.5	75.6	42.2	31.8	27.9	25.5	22.3	20.7	20.7
65°	5321.7	1397.1	78.8	56.5	31.8	25.5	21.5	20.7	15.9	14.3	13.5
67.5°	5151.3	1166.2	63.7	41.4	23.9	19.9	16.7	15.9	9.6	8.0	8.0
70°	4418.2	812.0	50.9	30.3	17.5	15.9	13.5	10.3	7.2	6.4	6.4
71°	4006.6	678.2	46.2	25.5	15.1	15.1	12.7	8.8	6.4	5.6	5.6
72.5°	3328.3	481.6	39.0	19.9	13.5	15.9	13.5	8.0	6.4	5.6	4.8
75°	1932.1	201.4	27.1	13.5	10.3	19.1	17.5	7.2	4.8	4.0	4.0
77.5°	581.1	74.0	15.1	8.8	8.0	16.7	19.9	6.4	2.4	0.8	0.8
80°	105.9	31.8	9.6	5.6	5.6	10.3	15.1	3.2	0.0	0.0	0.0
82.5°	37.4	15.9	5.6	3.2	2.4	4.8	7.2	0.0	0.0	0.0	0.0
85°	21.5	11.1	3.2	1.6	0.0	0.8	1.6	0.0	0.0	0.0	0.0
87.5°	14.3	3.2	0.0	0.0	0.0	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)