

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: P191760

Luminaire Tested: **GAN-AF-02-LED-U-AFL-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191760  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-02-LED-U-AFL-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10095 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

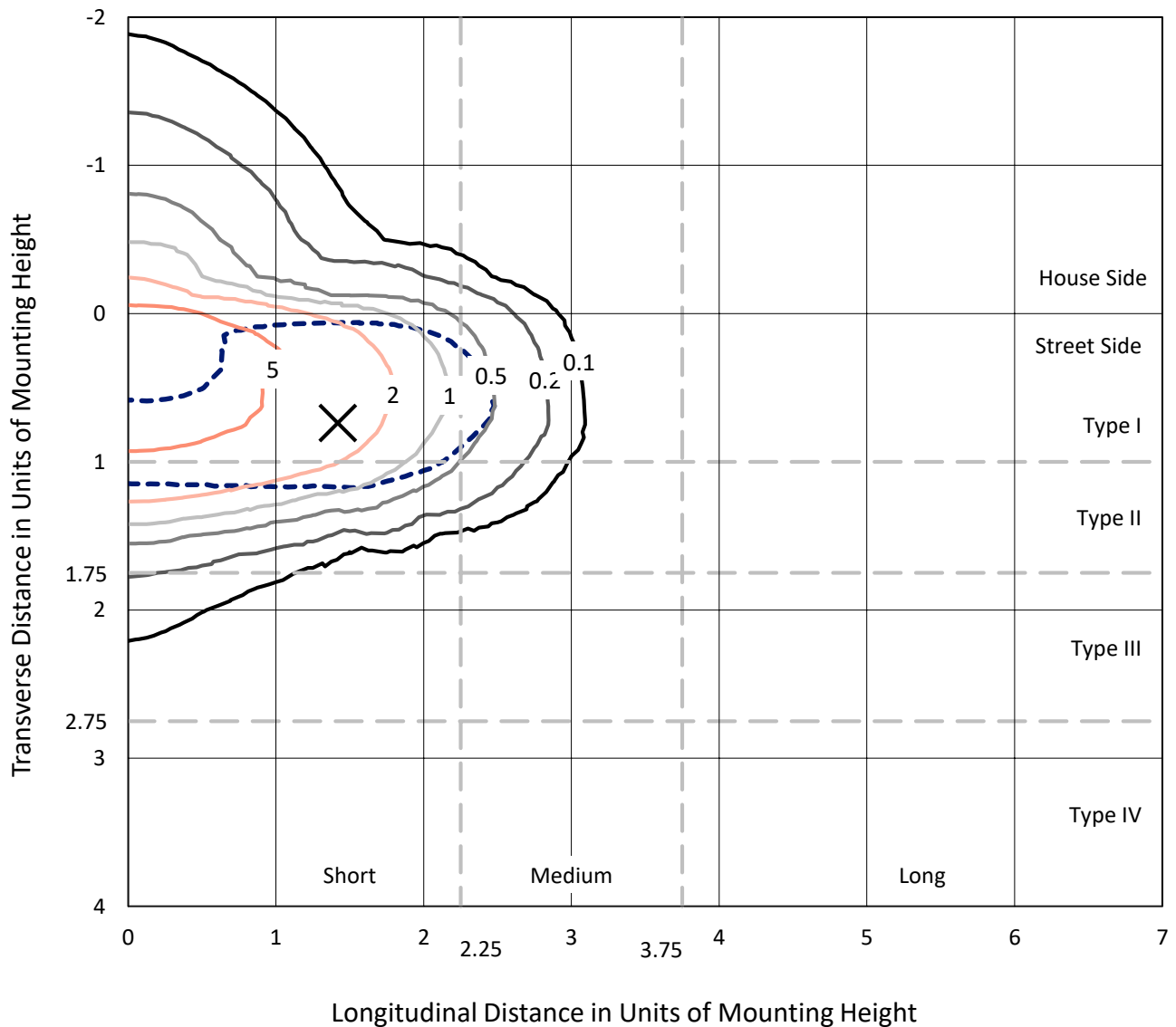
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

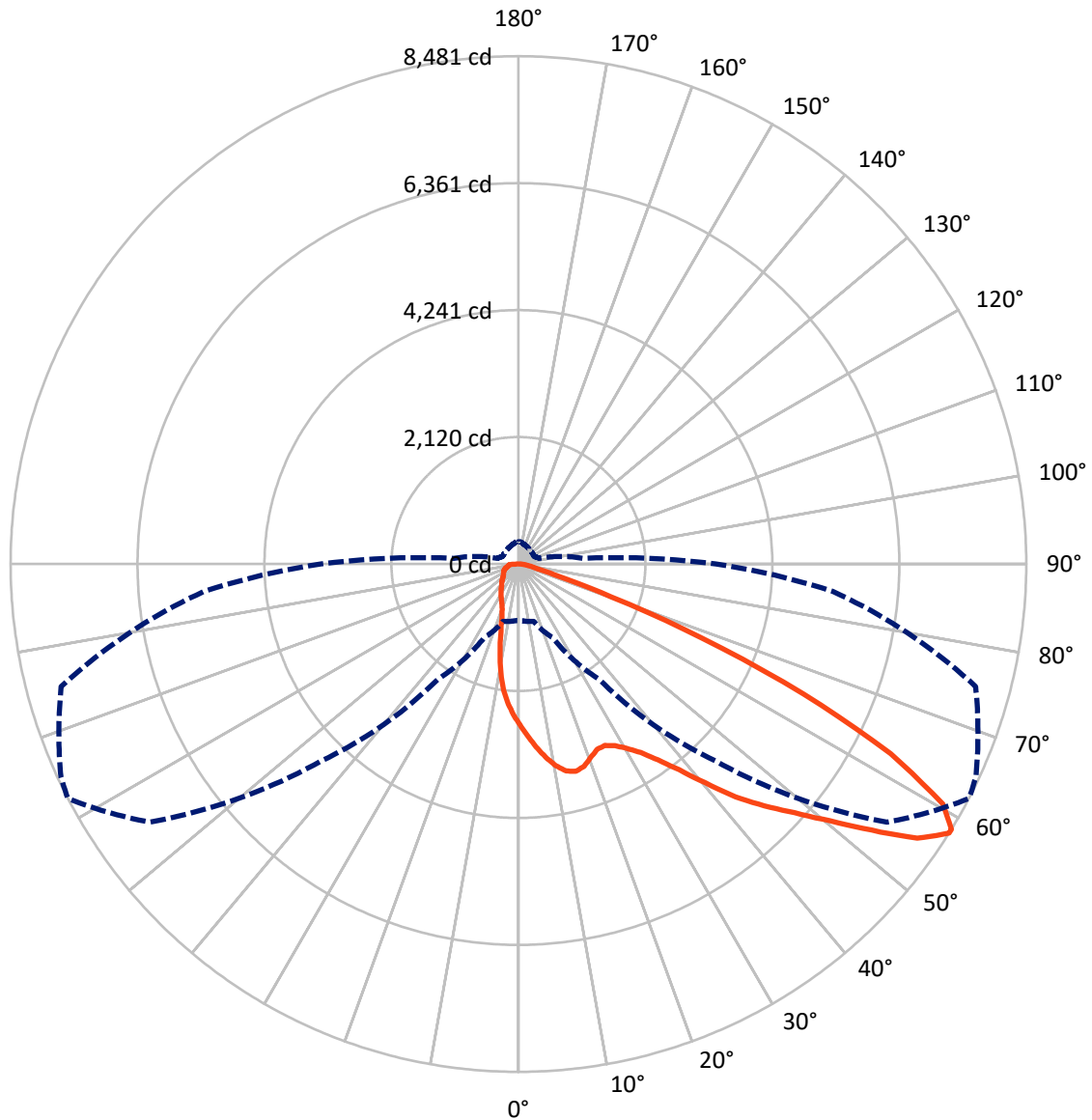
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1539.5	0.0	1539.5
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	8555.5	0.0	8555.5
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	10095.0	0.0	10095.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.8	2.4
10°-20°	613.0	6.1
20°-30°	991.0	9.8
30°-40°	1573.2	15.6
40°-50°	2301.9	22.8
50°-60°	2407.6	23.8
60°-70°	1422.4	14.1
70°-80°	400.7	4.0
80°-90°	145.5	1.4
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°	10095.0	100.0
0°-180°	10095.0	100.0



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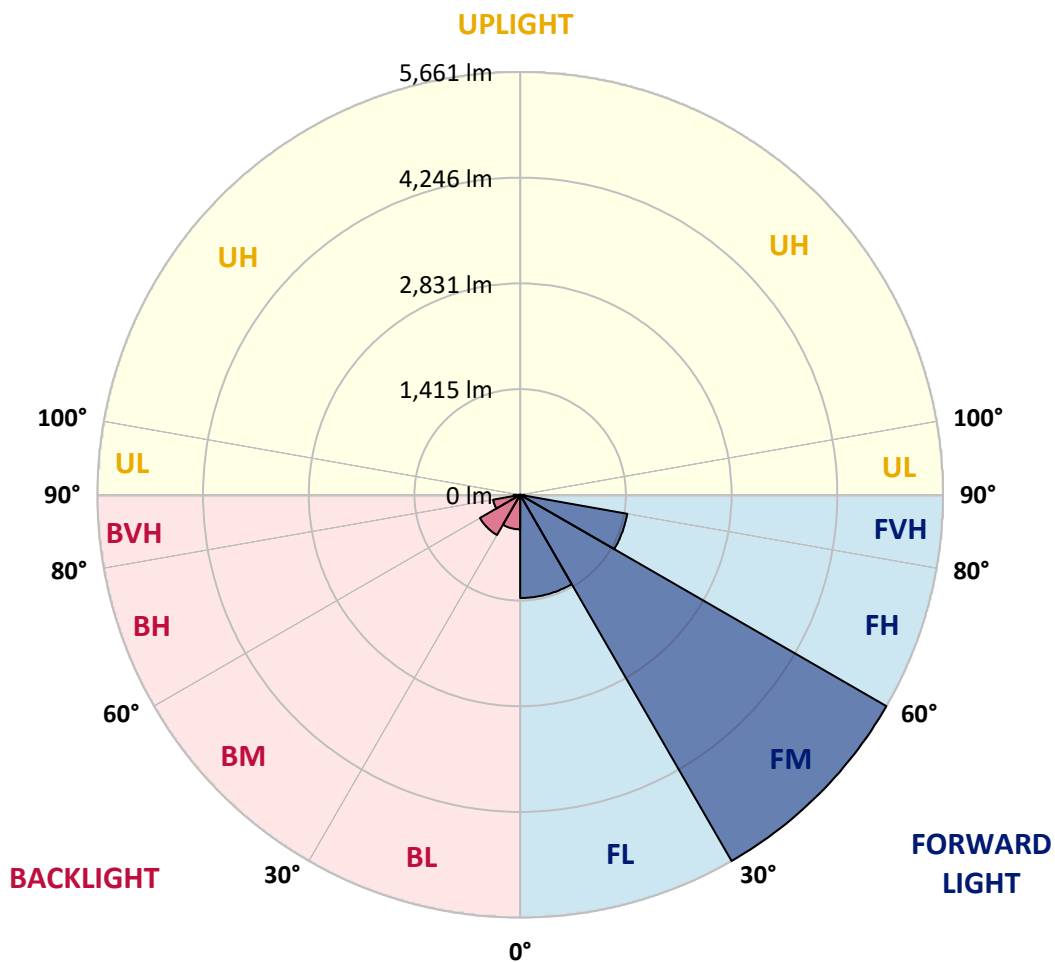
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1381.1	13.7			
FM	(30°-60°)	5661.2	56.1			
FH	(60°-80°)	1455.7	14.4			G1/1800
FVH	(80°-90°)	57.4	0.6			G1/100
BL	(0°-30°)	462.7	4.6	B1/500		
BM	(30°-60°)	621.4	6.2	B1/1000		
BH	(60°-80°)	367.3	3.6	B1/500		G1/500
BVH	(80°-90°)	88.1	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5
2.5°	3064.2	3039.5	3023.8	3010.0	2991.9	2953.4	2901.6	2868.8	2852.2	2795.6	2728.6
5°	3364.6	3342.8	3326.6	3308.1	3275.7	3215.4	3131.7	3065.2	3032.4	2919.2	2785.2
7.5°	3294.3	3303.3	3331.4	3380.3	3422.1	3414.1	3339.4	3254.8	3211.6	3054.2	2850.8
10°	2870.3	2885.9	2934.4	3049.0	3234.4	3424.5	3482.5	3424.1	3380.3	3187.8	2918.3
12.5°	2785.2	2784.7	2788.5	2818.9	2929.2	3196.8	3487.3	3546.2	3520.1	3315.2	2987.2
15°	2819.9	2820.8	2818.0	2830.8	2865.0	2971.0	3341.8	3593.3	3611.8	3443.5	3058.5
17.5°	2911.1	2908.8	2897.8	2897.8	2910.2	2951.5	3170.7	3549.5	3635.1	3557.2	3121.2
20°	3064.2	3053.3	3024.3	2997.6	2984.3	3006.7	3100.3	3448.8	3594.7	3656.5	3173.1
22.5°	3249.6	3241.0	3194.0	3136.9	3090.8	3090.3	3136.5	3360.8	3524.8	3750.2	3216.8
25°	3489.2	3475.4	3405.5	3314.2	3233.4	3202.5	3215.4	3356.5	3486.8	3851.9	3255.8
27.5°	3770.6	3745.4	3662.7	3531.0	3412.2	3349.9	3331.4	3434.0	3521.5	3977.9	3310.0
30°	4111.9	4082.9	3976.9	3805.3	3637.5	3535.3	3495.8	3571.4	3636.5	4131.4	3397.0
32.5°	4500.3	4458.4	4335.8	4146.6	3926.0	3770.1	3705.9	3753.0	3804.8	4316.3	3505.8
35°	5037.0	4987.0	4809.7	4548.8	4299.7	4085.3	3982.6	4016.8	4067.2	4592.0	3663.2
37.5°	5403.0	5380.7	5262.8	5017.5	4746.5	4499.8	4341.0	4361.0	4389.5	4936.7	3864.7
40°	5399.7	5408.7	5411.1	5413.5	5229.0	4992.8	4822.1	4801.2	4795.5	5315.1	4093.8
42.5°	5129.2	5166.3	5286.1	5529.0	5641.2	5532.8	5376.4	5316.0	5286.1	5760.9	4336.8
45°	4715.1	4735.1	4959.5	5433.9	5852.2	6067.6	5949.2	5759.0	5704.8	6170.7	4538.3
47.5°	4501.7	4523.6	4664.8	5181.9	5849.8	6499.7	6568.1	6205.9	6108.9	6527.2	4712.3
50°	3993.5	4039.2	4217.0	4743.7	5636.4	6698.4	7215.1	6738.3	6537.7	6874.2	4886.7
52.5°	3060.4	3130.8	3329.9	4023.0	5095.0	6600.0	7732.8	7383.8	7100.5	7233.6	5036.5
55°	1930.5	1982.7	2150.1	2841.3	4075.8	6088.0	7929.1	8082.1	7830.2	7574.0	5166.3
57.5°	1049.6	1072.9	1135.6	1568.7	2651.1	4956.2	7642.9	8479.6	8375.0	7863.0	5264.2
58°	939.3	955.0	994.0	1359.5	2351.2	4646.7	7516.0	8481.0	8428.7	7905.3	5271.8
60°	696.9	688.8	654.1	775.8	1308.7	3210.1	6748.7	8141.6	8295.1	7957.1	5234.7
62.5°	612.3	592.8	522.0	513.9	636.5	1478.9	5163.9	6974.1	7336.8	7661.4	5009.4
65°	575.2	554.3	463.0	433.5	459.2	625.6	3041.9	5230.4	5685.4	6764.9	4433.2
67.5°	547.6	520.5	425.5	385.0	386.9	413.6	1219.3	3294.3	3806.2	5136.3	3448.3
70°	521.0	491.5	393.6	347.0	336.1	327.1	484.9	1649.0	2113.5	3244.4	2198.6
72.5°	492.5	463.5	365.6	317.1	295.7	265.7	316.6	674.5	942.2	1535.0	997.3
75°	451.1	425.0	337.5	290.4	260.0	220.1	239.1	352.2	422.6	611.3	480.6
77.5°	400.3	378.9	306.1	268.6	230.6	178.7	184.0	244.3	271.0	349.9	285.7
80°	287.6	295.2	272.4	241.5	205.4	145.0	141.2	178.3	192.5	224.8	185.9
82.5°	202.0	206.3	225.3	197.3	169.7	114.1	104.1	125.5	134.1	147.8	100.3
85°	139.3	134.5	154.5	137.4	122.6	76.1	71.3	85.1	90.3	91.7	51.8
87.5°	83.7	83.7	89.4	73.7	66.1	39.5	38.5	48.5	51.8	49.4	28.5
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°	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5
2.5°	2688.7	2654.9	2583.1	2525.6	2452.9	2377.3	2335.0	2289.8	2258.9	2236.6	2272.2
5°	2709.1	2640.2	2491.9	2351.2	2195.7	2034.1	1911.4	1797.4	1718.0	1668.5	1715.1
7.5°	2741.4	2635.4	2399.2	2158.6	1879.6	1610.5	1370.0	1219.3	1131.4	1088.1	1115.2
10°	2778.5	2627.8	2290.3	1897.7	1498.3	1159.4	979.7	918.9	898.9	890.8	894.6
12.5°	2809.4	2611.7	2156.7	1582.0	1125.2	915.6	863.7	862.3	866.6	867.5	869.0
15°	2831.3	2587.9	1958.5	1253.1	899.9	834.3	831.4	840.0	848.1	851.4	853.3
17.5°	2846.0	2538.9	1734.6	990.7	806.2	794.8	801.5	812.4	821.0	823.3	825.2
20°	2844.6	2467.1	1467.9	826.2	755.4	755.4	766.8	775.3	775.8	772.9	774.4
22.5°	2829.8	2368.7	1209.3	738.7	710.2	718.3	729.7	721.6	688.3	666.5	667.9
25°	2805.1	2251.3	987.8	683.1	668.4	682.6	679.3	618.4	570.9	549.5	549.5
27.5°	2783.3	2112.5	817.6	634.6	626.5	644.1	585.2	530.0	510.1	500.1	496.8
30°	2767.6	1962.8	704.0	588.0	587.1	574.2	507.7	492.5	489.2	481.1	478.2
32.5°	2771.4	1811.1	631.3	547.1	550.5	491.5	470.6	473.9	471.1	462.5	458.7
35°	2802.7	1667.1	583.7	510.1	500.1	444.0	448.7	454.9	454.0	442.1	438.3
37.5°	2858.8	1530.7	552.4	479.2	436.4	420.2	427.8	437.3	435.0	426.9	424.0
40°	2917.8	1402.3	526.7	454.9	398.8	404.1	410.7	415.9	418.3	420.7	418.8
42.5°	2975.3	1268.3	495.3	430.2	383.1	388.8	391.7	396.9	409.8	418.8	418.3
45°	3009.5	1142.3	463.0	395.0	370.8	374.1	372.2	382.7	398.4	413.1	413.6
47.5°	3047.6	1044.4	437.3	362.7	358.9	361.3	355.6	366.0	380.3	398.4	400.3
50°	3093.7	985.9	416.9	337.0	342.7	342.7	341.3	350.8	370.8	391.7	395.5
52.5°	3146.0	974.5	399.8	318.5	326.6	326.1	327.5	341.8	363.7	384.1	387.4
55°	3209.7	1005.4	381.2	304.7	310.9	312.8	317.5	333.7	352.2	375.5	377.0
57.5°	3283.8	1068.1	366.5	293.8	296.6	302.8	310.4	325.1	345.1	370.8	372.2
58°	3296.2	1081.5	364.1	292.8	293.8	300.9	309.5	323.7	343.7	371.7	373.2
60°	3296.7	1125.7	358.9	288.5	282.8	294.7	304.2	318.5	341.3	375.1	378.4
62.5°	3179.7	1125.2	355.1	282.4	271.4	286.2	297.1	313.7	338.9	383.1	389.8
65°	2799.9	1022.5	337.0	272.9	262.4	278.6	290.9	310.4	345.6	418.3	422.6
67.5°	2190.0	838.1	303.3	259.5	250.5	271.0	287.1	309.9	352.7	426.4	429.3
70°	1448.0	627.0	266.2	244.3	238.2	261.9	289.0	326.1	344.6	409.3	401.7
72.5°	751.6	440.2	236.3	225.3	223.9	253.8	316.6	324.2	336.6	385.0	375.5
75°	394.6	305.7	210.1	204.4	206.8	251.9	373.6	315.6	326.1	368.4	386.5
77.5°	241.5	246.7	187.8	185.4	190.1	246.2	373.2	304.7	310.9	338.9	358.9
80°	161.6	200.1	170.7	171.1	174.5	225.3	335.1	287.6	292.3	320.4	340.8
82.5°	102.2	118.4	155.0	163.1	158.8	185.9	284.7	261.9	268.6	366.5	387.4
85°	51.8	74.2	134.5	156.9	143.1	130.2	231.0	229.6	232.9	264.3	276.2
87.5°	23.8	40.9	105.1	136.9	107.9	81.3	167.8	170.2	183.5	187.8	187.8
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)