

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: P268253

Luminaire Tested: **GAN-AF-02-LED-U-AFL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268253
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-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10855.2 lumens
Efficiency: N/A
Efficacy: 96.1 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

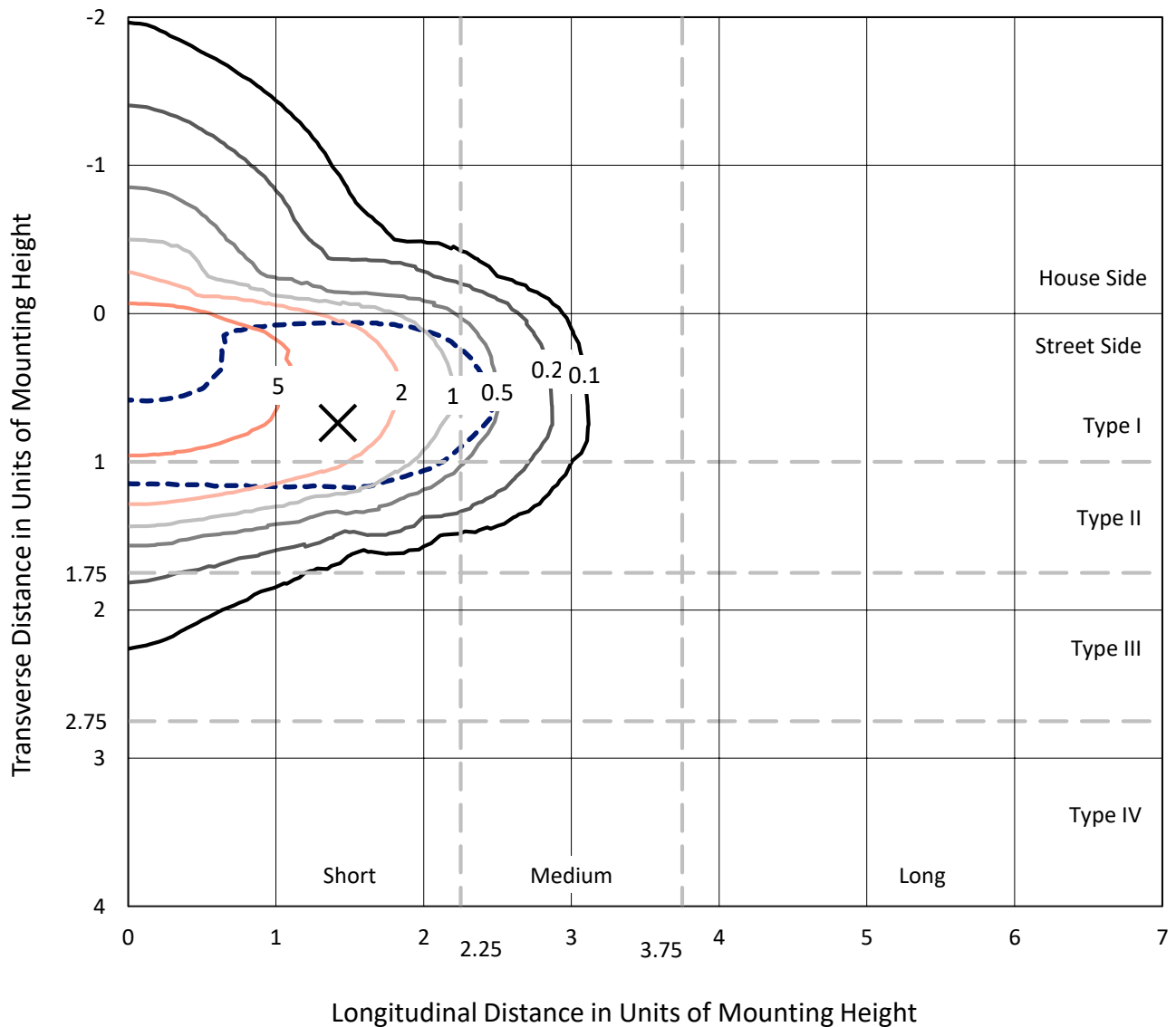
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P268253
 CATALOG NUMBER: GAN-AF-02-LED-U-AFL-7027

Iso-Footcandle Lines of Horizontal Illumination

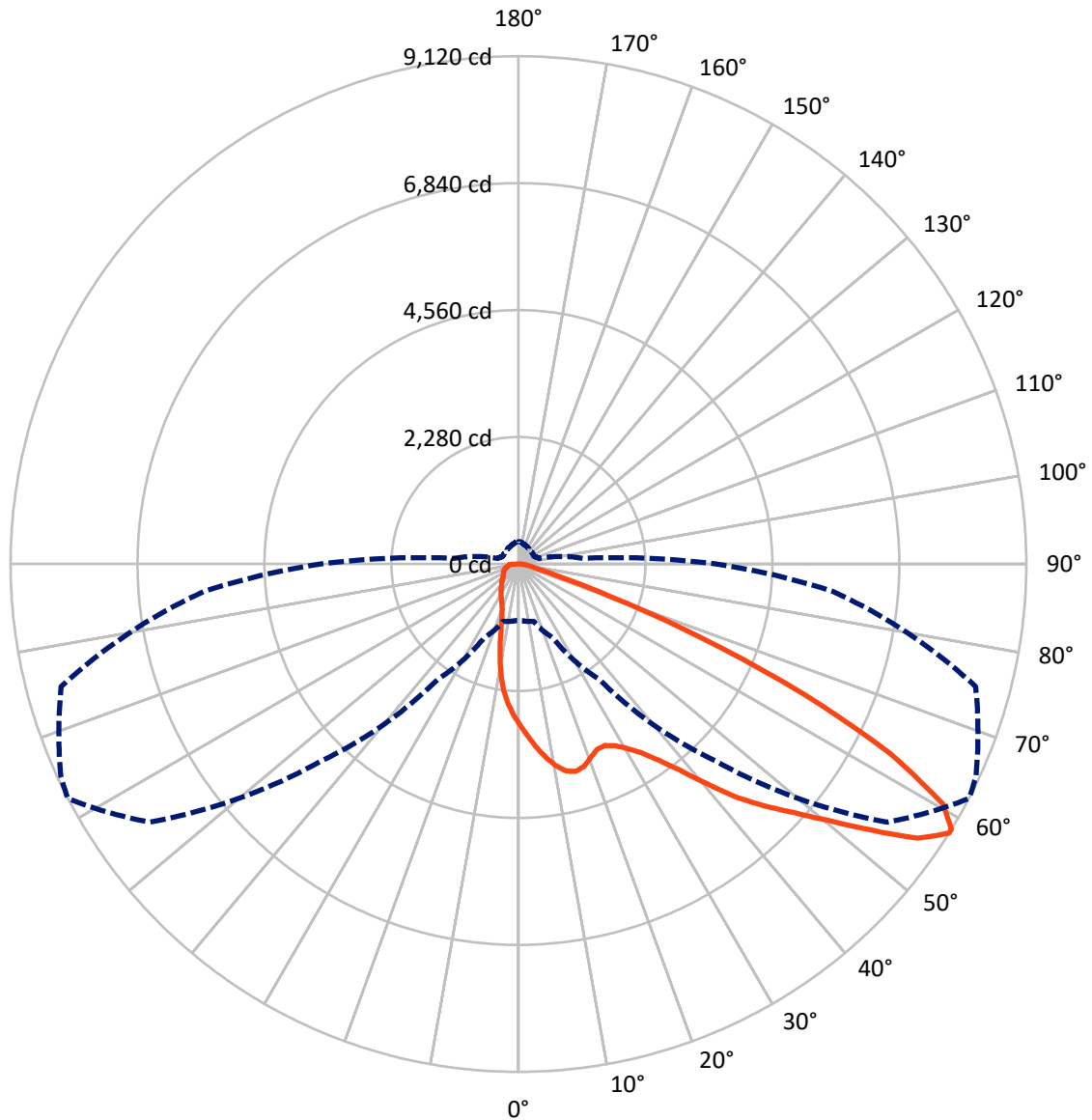
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P268253
CATALOG NUMBER: GAN-AF-02-LED-U-AFL-7027

Luminous Intensity Polar Plot



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

REPORT NUMBER: P268253

CATALOG NUMBER: GAN-AF-02-LED-U-AFL-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1655.4	0.0	1655.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	9199.7	0.0	9199.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	10855.2	0.0	10855.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.9	2.4
10°-20°	659.2	6.1
20°-30°	1065.6	9.8
30°-40°	1691.6	15.6
40°-50°	2475.2	22.8
50°-60°	2588.9	23.8
60°-70°	1529.5	14.1
70°-80°	430.9	4.0
80°-90°	156.4	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°	10855.2	100.0
0°-180°	10855.2	100.0



REPORT NUMBER: P268253

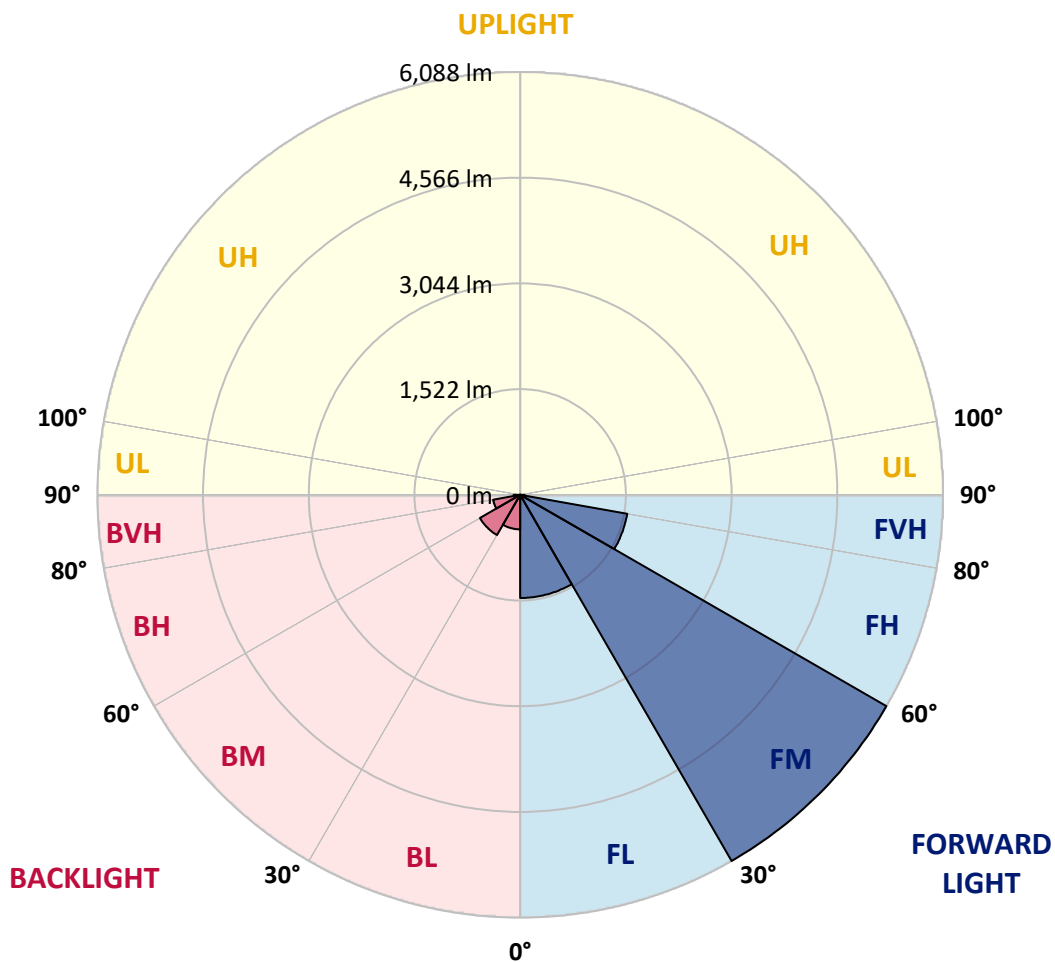
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1485.1	13.7			
FM	(30°-60°)	6087.5	56.1			
FH	(60°-80°)	1565.4	14.4			G1/1800
FVH	(80°-90°)	61.7	0.6			G1/100
BL	(0°-30°)	497.5	4.6	B1/500		
BM	(30°-60°)	668.2	6.2	B1/1000		
BH	(60°-80°)	395.0	3.6	B1/500		G1/500
BVH	(80°-90°)	94.7	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





REPORT NUMBER: P268253

CATALOG NUMBER: GAN-AF-02-LED-U-AFL-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	2883.5	2883.5	2883.5	2883.5	2883.5	2883.5	2883.5	2883.5	2883.5	2883.5	2883.5
2.5°	3295.0	3268.4	3251.4	3236.7	3217.2	3175.9	3120.2	3084.9	3067.0	3006.2	2934.0
5°	3618.1	3594.5	3577.1	3557.2	3522.4	3457.4	3367.6	3296.1	3260.7	3139.0	2994.9
7.5°	3542.3	3552.1	3582.3	3634.8	3679.8	3671.2	3591.0	3499.9	3453.4	3284.3	3065.5
10°	3086.3	3103.3	3155.3	3278.5	3478.0	3682.4	3744.8	3682.0	3634.8	3427.8	3138.0
12.5°	2994.9	2994.4	2998.5	3031.2	3149.7	3437.5	3749.9	3813.2	3785.2	3564.8	3212.1
15°	3032.1	3033.2	3030.2	3043.9	3080.7	3194.7	3593.5	3863.9	3883.8	3702.9	3288.9
17.5°	3130.4	3127.8	3116.0	3116.0	3129.3	3173.8	3409.4	3816.9	3908.9	3825.1	3356.2
20°	3295.0	3283.1	3252.0	3223.4	3209.0	3233.1	3333.8	3708.5	3865.3	3931.8	3412.0
22.5°	3494.2	3485.2	3434.5	3373.1	3323.5	3323.1	3372.6	3613.9	3790.3	4032.5	3459.1
25°	3752.0	3737.0	3662.0	3563.8	3476.9	3443.7	3457.4	3609.3	3749.3	4141.9	3501.0
27.5°	4054.5	4027.5	3938.4	3796.9	3669.0	3602.2	3582.3	3692.7	3786.6	4277.4	3559.3
30°	4421.5	4390.3	4276.4	4091.8	3911.4	3801.4	3759.0	3840.3	3910.4	4442.5	3652.8
32.5°	4839.2	4794.2	4662.4	4458.8	4221.7	4054.1	3985.1	4035.6	4091.3	4641.4	3769.7
35°	5416.3	5362.6	5171.9	4891.4	4623.4	4392.9	4282.5	4319.3	4373.5	4937.9	3939.0
37.5°	5809.9	5785.9	5659.1	5395.3	5103.9	4838.6	4668.0	4689.4	4720.1	5308.4	4155.6
40°	5806.3	5815.9	5818.5	5821.0	5622.9	5368.7	5185.2	5162.6	5156.6	5715.2	4402.1
42.5°	5515.5	5555.3	5684.1	5945.3	6066.0	5949.5	5781.2	5716.4	5684.1	6194.7	4663.3
45°	5070.3	5091.7	5333.0	5843.0	6292.8	6524.5	6397.2	6192.7	6134.4	6635.4	4880.0
47.5°	4840.6	4864.2	5016.0	5572.1	6290.3	6989.2	7062.7	6673.1	6568.9	7018.7	5067.1
50°	4294.3	4343.3	4534.6	5100.8	6060.9	7202.8	7758.4	7245.6	7030.0	7392.0	5254.7
52.5°	3290.9	3366.5	3580.6	4326.0	5478.7	7097.0	8315.0	7939.8	7635.2	7778.3	5415.7
55°	2075.9	2132.0	2312.0	3055.2	4382.7	6546.5	8526.2	8690.7	8419.9	8144.4	5555.3
57.5°	1128.6	1153.8	1221.2	1686.8	2850.7	5329.4	8218.5	9118.1	9005.7	8455.0	5660.6
58°	1010.1	1026.9	1068.9	1461.9	2528.2	4996.6	8082.1	9119.7	9063.4	8500.7	5668.8
60°	749.4	740.7	703.4	834.3	1407.3	3451.8	7257.0	8754.6	8919.8	8556.4	5628.9
62.5°	658.4	637.3	561.3	552.5	684.5	1590.2	5552.8	7499.2	7889.3	8238.4	5386.5
65°	618.6	596.0	497.9	466.2	493.8	672.7	3270.9	5624.3	6113.4	7274.4	4767.0
67.5°	588.8	559.7	457.4	414.1	416.1	444.8	1311.2	3542.3	4092.9	5523.0	3707.9
70°	560.3	528.6	423.2	373.2	361.4	351.6	521.3	1773.3	2272.6	3488.7	2364.1
72.5°	529.6	498.4	393.1	340.9	317.9	285.8	340.5	725.3	1013.1	1650.5	1072.3
75°	485.1	457.0	362.9	312.3	279.6	236.7	257.2	378.7	454.5	657.4	516.7
77.5°	430.4	407.4	329.1	288.9	247.9	192.1	197.8	262.8	291.4	376.2	307.2
80°	309.2	317.5	292.8	259.7	220.9	155.9	151.9	191.7	207.0	241.7	199.9
82.5°	217.2	221.8	242.4	212.1	182.4	122.7	112.0	134.9	144.2	159.0	107.8
85°	149.7	144.6	166.1	147.7	132.0	81.7	76.6	91.4	97.1	98.6	55.8
87.5°	90.0	90.0	96.1	79.2	71.1	42.4	41.4	52.1	55.8	53.2	30.6
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°	2883.5	2883.5	2883.5	2883.5	2883.5	2883.5	2883.5	2883.5	2883.5	2883.5	2883.5
2.5°	2891.1	2854.9	2777.6	2715.8	2637.7	2556.2	2510.9	2462.3	2429.0	2405.0	2443.4
5°	2913.2	2839.1	2679.6	2528.2	2361.0	2187.3	2055.4	1932.8	1847.4	1794.2	1844.3
7.5°	2947.9	2833.9	2579.8	2321.2	2021.1	1731.8	1473.2	1311.2	1216.6	1170.0	1199.1
10°	2987.8	2825.7	2462.8	2040.6	1611.2	1246.7	1053.5	988.0	966.5	958.0	962.1
12.5°	3021.0	2808.3	2319.2	1701.1	1209.8	984.5	928.8	927.2	931.8	932.9	934.3
15°	3044.4	2782.8	2105.9	1347.4	967.7	897.0	894.1	903.2	911.9	915.6	917.4
17.5°	3060.3	2730.0	1865.2	1065.3	867.0	854.6	861.8	873.6	882.8	885.3	887.3
20°	3058.8	2653.0	1578.4	888.5	812.2	812.2	824.6	833.6	834.3	831.1	832.6
22.5°	3043.0	2547.1	1300.3	794.3	763.6	772.4	784.6	776.0	740.2	716.7	718.1
25°	3016.4	2420.8	1062.2	734.5	718.7	734.0	730.4	665.0	613.9	590.9	590.9
27.5°	2992.9	2271.6	879.3	682.4	673.6	692.7	629.3	570.0	548.4	537.7	534.1
30°	2975.9	2110.6	757.0	632.2	631.2	617.5	545.9	529.6	526.0	517.3	514.2
32.5°	2980.0	1947.5	678.8	588.3	592.0	528.6	506.0	509.6	506.6	497.3	493.3
35°	3013.9	1792.7	627.6	548.4	537.7	477.4	482.5	489.1	488.1	475.4	471.3
37.5°	3074.1	1646.0	594.0	515.3	469.3	451.8	460.0	470.3	467.7	459.0	456.0
40°	3137.5	1508.0	566.4	489.1	428.9	434.5	441.6	447.3	449.8	452.3	450.3
42.5°	3199.4	1363.7	532.6	462.5	412.1	418.2	421.1	426.9	440.6	450.3	449.8
45°	3236.1	1228.3	497.9	424.8	398.7	402.4	400.3	411.5	428.3	444.2	444.8
47.5°	3277.0	1123.1	470.3	390.0	385.9	388.4	382.4	393.5	408.9	428.3	430.4
50°	3326.7	1060.2	448.3	362.5	368.6	368.6	367.0	377.3	398.7	421.1	425.3
52.5°	3382.8	1048.0	429.8	342.4	351.1	350.7	352.1	367.5	391.0	413.0	416.6
55°	3451.4	1081.1	409.9	327.6	334.3	336.3	341.4	358.9	378.7	403.8	405.3
57.5°	3531.1	1148.6	394.0	315.9	319.0	325.6	333.8	349.6	371.1	398.7	400.3
58°	3544.4	1162.9	391.5	314.9	315.9	323.6	332.7	348.2	369.6	399.7	401.3
60°	3544.9	1210.5	385.9	310.3	304.2	316.9	327.2	342.4	367.0	403.2	406.9
62.5°	3419.2	1209.8	381.8	303.6	291.9	307.7	319.4	337.4	364.4	412.1	419.1
65°	3010.7	1099.5	362.5	293.3	282.2	299.6	312.8	333.8	371.5	449.8	454.5
67.5°	2354.9	901.2	326.2	279.2	269.4	291.4	308.7	333.4	379.3	458.6	461.5
70°	1557.0	674.2	286.3	262.8	256.0	281.7	310.8	350.7	370.6	440.1	431.9
72.5°	808.1	473.3	254.0	242.4	240.7	272.9	340.5	348.6	361.8	414.1	403.8
75°	424.3	328.7	226.0	219.7	222.4	270.8	401.8	339.4	350.7	396.2	415.6
77.5°	259.7	265.3	201.8	199.3	204.5	264.8	401.3	327.6	334.3	364.4	385.9
80°	173.8	215.2	183.6	184.1	187.6	242.4	360.4	309.2	314.3	344.5	366.5
82.5°	110.0	127.3	166.6	175.3	170.7	199.9	306.2	281.7	288.9	394.0	416.6
85°	55.8	79.7	144.6	168.7	153.9	140.0	248.4	246.9	250.4	284.3	297.0
87.5°	25.5	43.9	112.9	147.2	116.1	87.5	180.4	183.0	197.3	201.8	201.8
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)