

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: P268334

Luminaire Tested: **GAN-AF-03-LED-U-AFL-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268334
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-03-LED-U-AFL-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10672.6 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

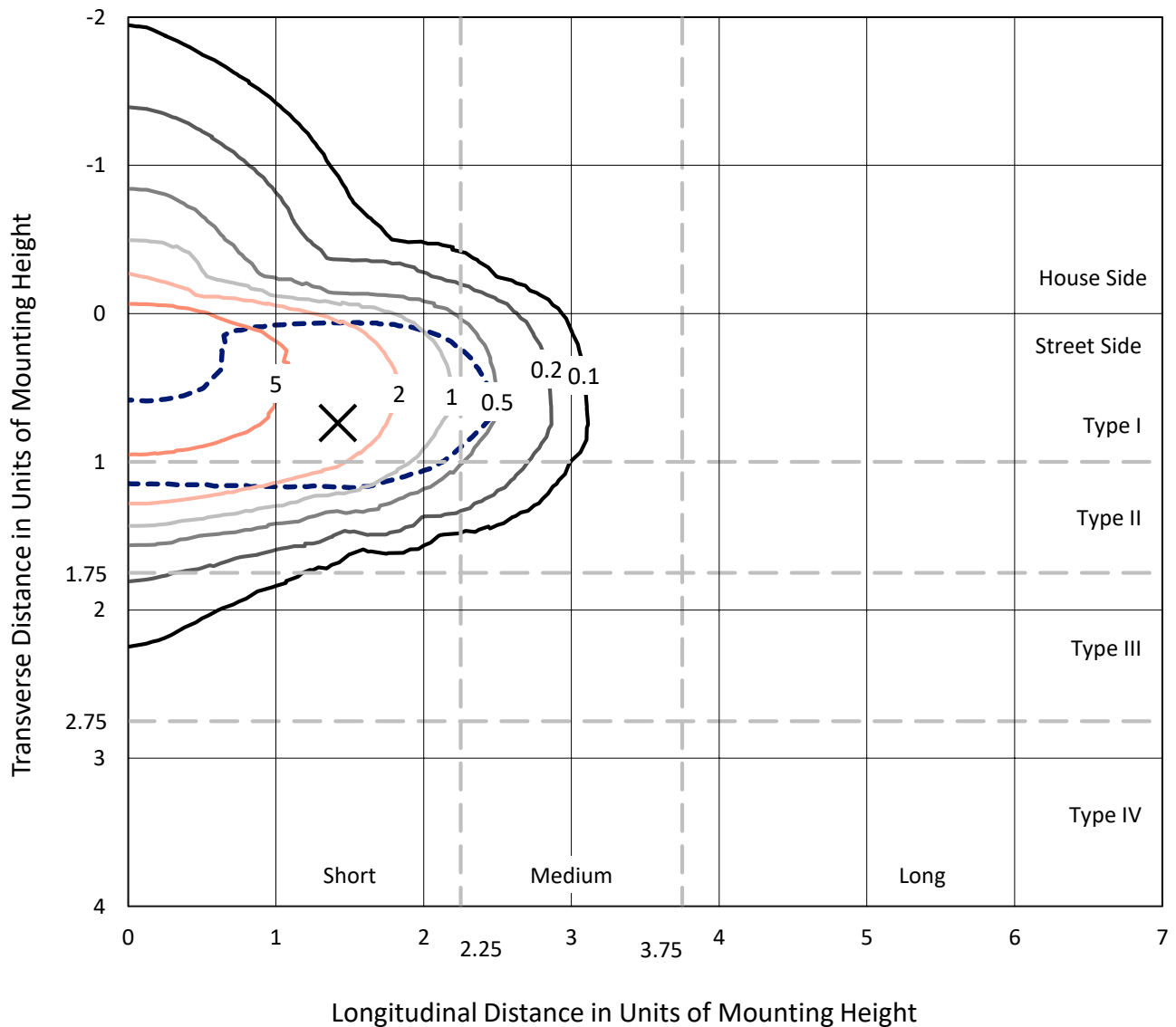
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

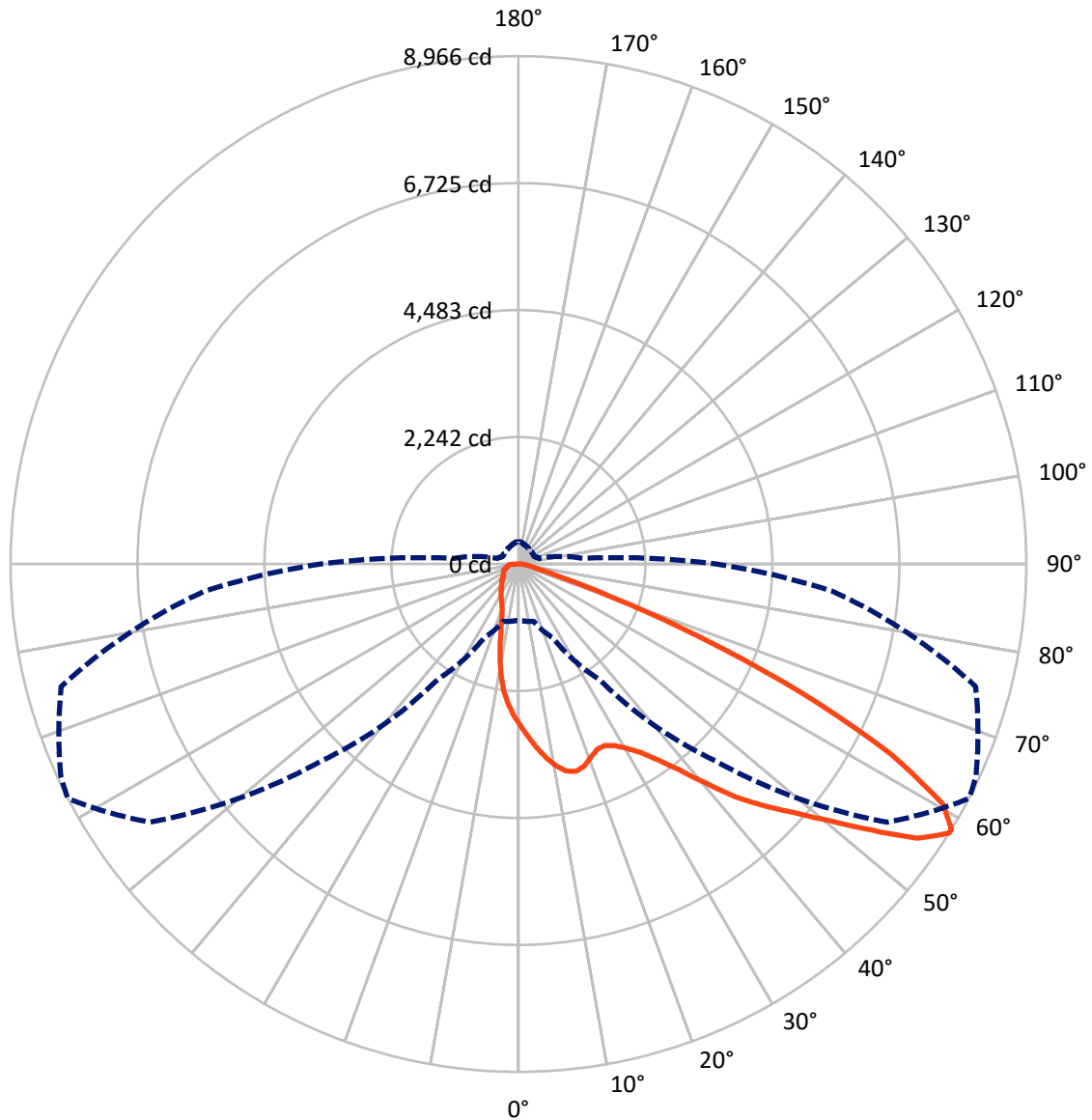
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.6 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
House Side	Lumens	1627.6	0.0	1627.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	9045.0	0.0	9045.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	10672.6	0.0	10672.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.5	2.4
10°-20°	648.1	6.1
20°-30°	1047.7	9.8
30°-40°	1663.2	15.6
40°-50°	2433.6	22.8
50°-60°	2545.3	23.8
60°-70°	1503.8	14.1
70°-80°	423.6	4.0
80°-90°	153.8	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°	10672.6	100.0
0°-180°	10672.6	100.0

Coefficient of Utilization



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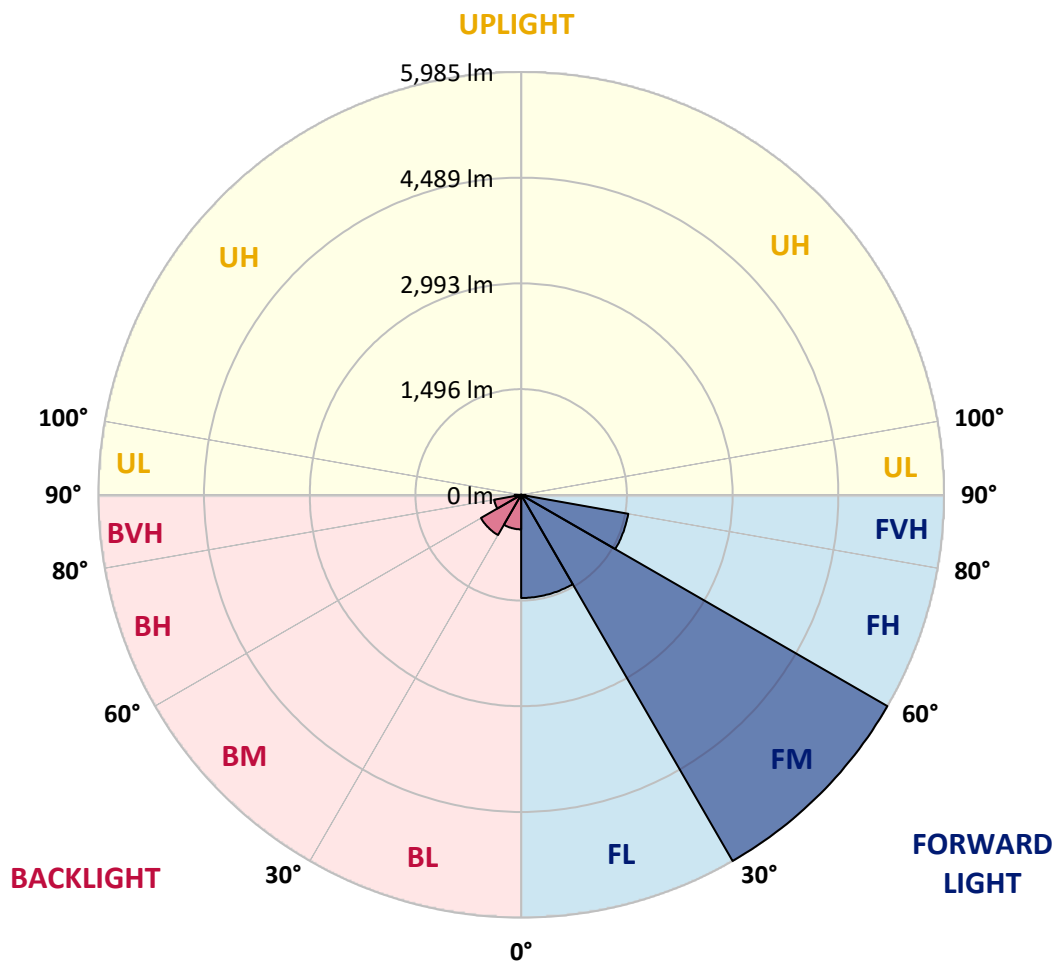
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1460.1	13.7			
FM	(30°-60°)	5985.2	56.1			
FH	(60°-80°)	1539.0	14.4			G1/1800
FVH	(80°-90°)	60.7	0.6			G1/100
BL	(0°-30°)	489.2	4.6	B1/500		
BM	(30°-60°)	656.9	6.2	B1/1000		
BH	(60°-80°)	388.4	3.6	B1/500		G1/500
BVH	(80°-90°)	93.1	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°	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1
2.5°	3239.6	3213.3	3196.8	3182.2	3163.1	3122.4	3067.6	3032.9	3015.4	2955.6	2884.6
5°	3557.2	3534.0	3517.0	3497.3	3463.1	3399.4	3311.0	3240.5	3205.8	3086.2	2944.6
7.5°	3482.8	3492.3	3522.0	3573.7	3618.0	3609.4	3530.5	3441.0	3395.4	3229.0	3013.9
10°	3034.5	3051.1	3102.3	3223.5	3419.5	3620.4	3681.9	3620.0	3573.7	3370.3	3085.3
12.5°	2944.6	2944.0	2948.1	2980.1	3096.7	3379.8	3686.9	3749.2	3721.5	3504.8	3158.1
15°	2981.2	2982.3	2979.1	2992.8	3028.9	3141.1	3533.0	3798.9	3818.4	3640.7	3233.4
17.5°	3077.8	3075.2	3063.6	3063.6	3076.8	3120.4	3352.1	3752.7	3843.0	3760.7	3299.8
20°	3239.6	3228.0	3197.2	3169.2	3155.0	3178.7	3277.7	3646.1	3800.4	3865.8	3354.6
22.5°	3435.6	3426.4	3376.6	3316.5	3267.7	3267.1	3316.0	3553.2	3726.4	3964.7	3400.9
25°	3688.8	3674.2	3600.3	3503.8	3418.4	3385.8	3399.4	3548.7	3686.4	4072.2	3442.0
27.5°	3986.4	3959.6	3872.2	3733.0	3607.5	3541.6	3522.0	3630.5	3722.9	4205.4	3499.3
30°	4347.2	4316.5	4204.4	4023.0	3845.6	3737.6	3695.8	3775.8	3844.7	4367.7	3591.3
32.5°	4757.8	4713.5	4584.0	4383.9	4150.7	3985.8	3918.0	3967.8	4022.5	4563.3	3706.3
35°	5325.2	5272.4	5084.9	4809.0	4545.8	4319.1	4210.4	4246.6	4299.9	4854.8	3872.8
37.5°	5712.1	5688.5	5563.9	5304.6	5018.1	4757.2	4589.4	4610.6	4640.6	5219.2	4085.9
40°	5708.5	5718.3	5720.6	5723.2	5528.2	5278.4	5098.1	5076.0	5069.9	5619.2	4328.0
42.5°	5422.7	5461.9	5588.5	5845.4	5963.9	5849.4	5684.0	5620.2	5588.5	6090.6	4584.9
45°	4985.0	5006.1	5243.2	5744.8	6187.0	6414.7	6289.7	6088.5	6031.3	6523.9	4797.9
47.5°	4759.3	4782.3	4931.6	5478.5	6184.6	6871.6	6944.0	6561.0	6458.5	6900.7	4981.9
50°	4222.0	4270.4	4458.3	5015.1	5958.8	7081.7	7627.9	7123.9	6911.7	7267.6	5166.3
52.5°	3235.5	3309.9	3520.5	4253.3	5386.4	6977.7	8175.3	7806.4	7506.7	7647.5	5324.7
55°	2040.9	2096.1	2273.2	3003.8	4309.0	6436.4	8382.8	8544.6	8278.2	8007.3	5461.9
57.5°	1109.6	1134.3	1200.7	1658.5	2802.8	5239.8	8080.3	8964.7	8854.1	8312.9	5565.4
58°	993.0	1009.7	1050.8	1437.4	2485.7	4912.7	7946.0	8966.3	8910.9	8357.7	5573.4
60°	736.8	728.3	691.5	820.2	1383.6	3393.8	7134.9	8607.4	8769.8	8412.4	5534.3
62.5°	647.3	626.7	551.7	543.3	672.9	1563.5	5459.4	7373.1	7756.5	8099.8	5296.0
65°	608.2	586.0	489.4	458.3	485.4	661.4	3215.9	5529.7	6010.6	7151.9	4686.8
67.5°	579.0	550.3	449.8	407.1	409.1	437.2	1289.1	3482.8	4024.0	5430.3	3645.6
70°	550.8	519.7	416.2	366.9	355.3	345.8	512.7	1743.4	2234.4	3430.0	2324.4
72.5°	520.7	489.9	386.5	335.2	312.6	280.9	334.7	713.2	996.1	1622.8	1054.4
75°	476.9	449.3	356.8	307.1	274.9	232.8	252.9	372.3	446.7	646.3	508.1
77.5°	423.1	400.6	323.7	284.0	243.7	189.0	194.6	258.4	286.5	369.9	302.0
80°	304.0	312.2	287.9	255.3	217.1	153.3	149.3	188.5	203.6	237.7	196.5
82.5°	213.5	218.1	238.2	208.5	179.4	120.6	110.0	132.7	141.8	156.2	106.0
85°	147.2	142.2	163.3	145.3	129.6	80.4	75.4	90.0	95.5	96.9	54.7
87.5°	88.5	88.5	94.5	78.0	69.9	41.7	40.8	51.3	54.7	52.3	30.2
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°	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1
2.5°	2842.4	2806.8	2730.9	2670.1	2593.2	2513.3	2468.6	2420.8	2388.1	2364.6	2402.2
5°	2864.2	2791.3	2634.4	2485.7	2321.3	2150.5	2020.7	1900.2	1816.3	1764.0	1813.3
7.5°	2898.3	2786.3	2536.5	2282.1	1987.1	1702.6	1448.3	1289.1	1196.2	1150.4	1179.0
10°	2937.5	2778.2	2421.3	2006.3	1584.2	1225.7	1035.7	971.4	950.3	941.9	945.8
12.5°	2970.2	2761.1	2280.2	1672.6	1189.5	968.0	913.1	911.7	916.2	917.2	918.6
15°	2993.3	2736.0	2070.6	1324.8	951.3	882.0	879.0	888.1	896.6	900.1	902.1
17.5°	3008.9	2684.1	1833.9	1047.3	852.3	840.3	847.3	858.9	867.9	870.5	872.4
20°	3007.3	2608.3	1551.9	873.4	798.6	798.6	810.6	819.7	820.2	817.2	818.6
22.5°	2991.7	2504.3	1278.5	780.9	750.9	759.3	771.5	762.9	727.6	704.6	706.1
25°	2965.7	2380.1	1044.3	722.1	706.5	721.7	718.1	653.8	603.7	580.9	580.9
27.5°	2942.5	2233.4	864.3	670.9	662.4	680.9	618.7	560.4	539.3	528.7	525.1
30°	2925.9	2075.1	744.2	621.6	620.6	607.2	536.7	520.7	517.2	508.6	505.6
32.5°	2929.9	1914.7	667.4	578.5	582.0	519.7	497.5	501.1	498.0	488.9	484.9
35°	2963.1	1762.5	617.1	539.3	528.7	469.5	474.5	481.0	480.0	467.4	463.3
37.5°	3022.4	1618.2	584.0	506.6	461.4	444.2	452.2	462.4	459.8	451.3	448.3
40°	3084.7	1482.6	556.8	481.0	421.7	427.1	434.2	439.7	442.2	444.8	442.8
42.5°	3145.5	1340.8	523.7	454.8	405.0	411.2	414.1	419.7	433.3	442.8	442.2
45°	3181.7	1207.6	489.4	417.6	392.0	395.6	393.5	404.5	421.1	436.8	437.2
47.5°	3222.0	1104.1	462.4	383.4	379.4	382.0	375.9	387.0	402.0	421.1	423.1
50°	3270.6	1042.4	440.8	356.3	362.3	362.3	360.8	370.9	392.0	414.1	418.2
52.5°	3326.0	1030.3	422.7	336.8	345.3	344.8	346.2	361.4	384.5	406.0	409.5
55°	3393.3	1063.0	403.1	322.1	328.7	330.7	335.6	352.9	372.3	397.1	398.6
57.5°	3471.7	1129.3	387.4	310.5	313.6	320.2	328.2	343.7	364.8	392.0	393.5
58°	3484.7	1143.4	385.0	309.6	310.5	318.1	327.2	342.3	363.4	393.0	394.5
60°	3485.2	1190.1	379.4	305.1	299.0	311.6	321.7	336.8	360.8	396.5	400.0
62.5°	3361.6	1189.5	375.4	298.5	287.0	302.5	314.0	331.7	358.3	405.0	412.1
65°	2960.2	1081.0	356.3	288.4	277.3	294.6	307.6	328.2	365.4	442.2	446.7
67.5°	2315.3	886.0	320.6	274.4	264.8	286.5	303.5	327.7	372.8	450.8	453.9
70°	1530.8	662.9	281.3	258.4	251.7	276.9	305.6	344.8	364.4	432.8	424.7
72.5°	794.6	465.4	249.8	238.2	236.8	268.4	334.7	342.8	355.8	407.1	397.1
75°	417.2	323.1	222.2	216.1	218.6	266.3	395.1	333.7	344.8	389.4	408.5
77.5°	255.3	260.9	198.5	196.0	201.0	260.2	394.5	322.1	328.7	358.3	379.4
80°	170.9	211.6	180.4	180.9	184.4	238.2	354.3	304.0	309.0	338.8	360.3
82.5°	108.1	125.1	163.9	172.4	167.9	196.5	301.0	276.9	284.0	387.4	409.5
85°	54.7	78.4	142.2	165.8	151.3	137.7	244.2	242.7	246.2	279.5	291.9
87.5°	25.2	43.2	111.1	144.7	114.1	86.0	177.4	179.9	194.0	198.5	198.5
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)