

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: P268256

Luminaire Tested: **GAN-AF-02-LED-U-AFL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268256
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-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8770.5 lumens
Efficiency: N/A
Efficacy: 103.2 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

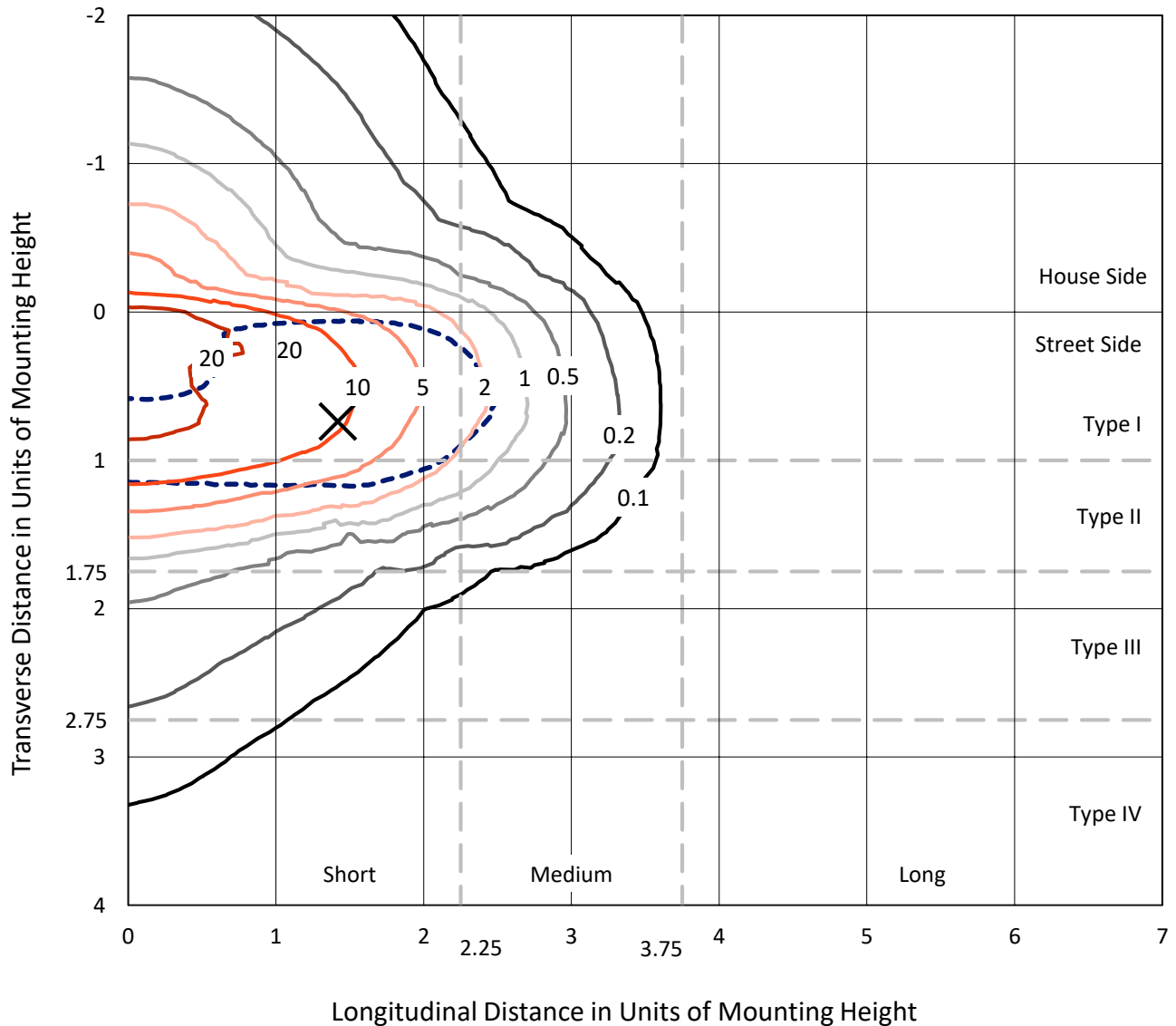
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

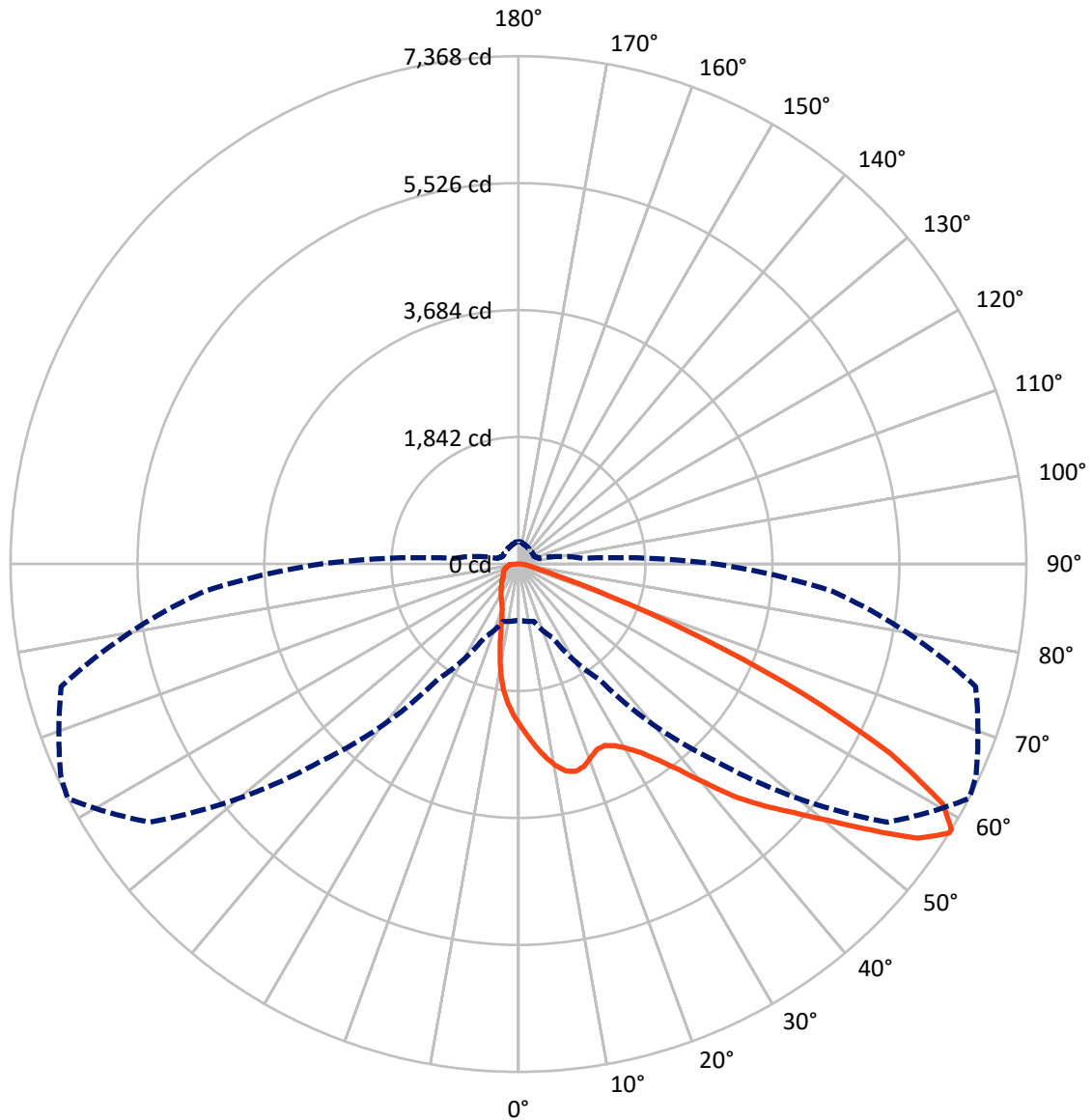
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.4 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	1337.6	0.0	1337.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	7433.0	0.0	7433.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	8770.5	0.0	8770.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.4	2.4
10°-20°	532.6	6.1
20°-30°	861.0	9.8
30°-40°	1366.8	15.6
40°-50°	1999.9	22.8
50°-60°	2091.7	23.8
60°-70°	1235.8	14.1
70°-80°	348.1	4.0
80°-90°	126.4	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°	8770.5	100.0
0°-180°	8770.5	100.0

Coefficient of Utilization



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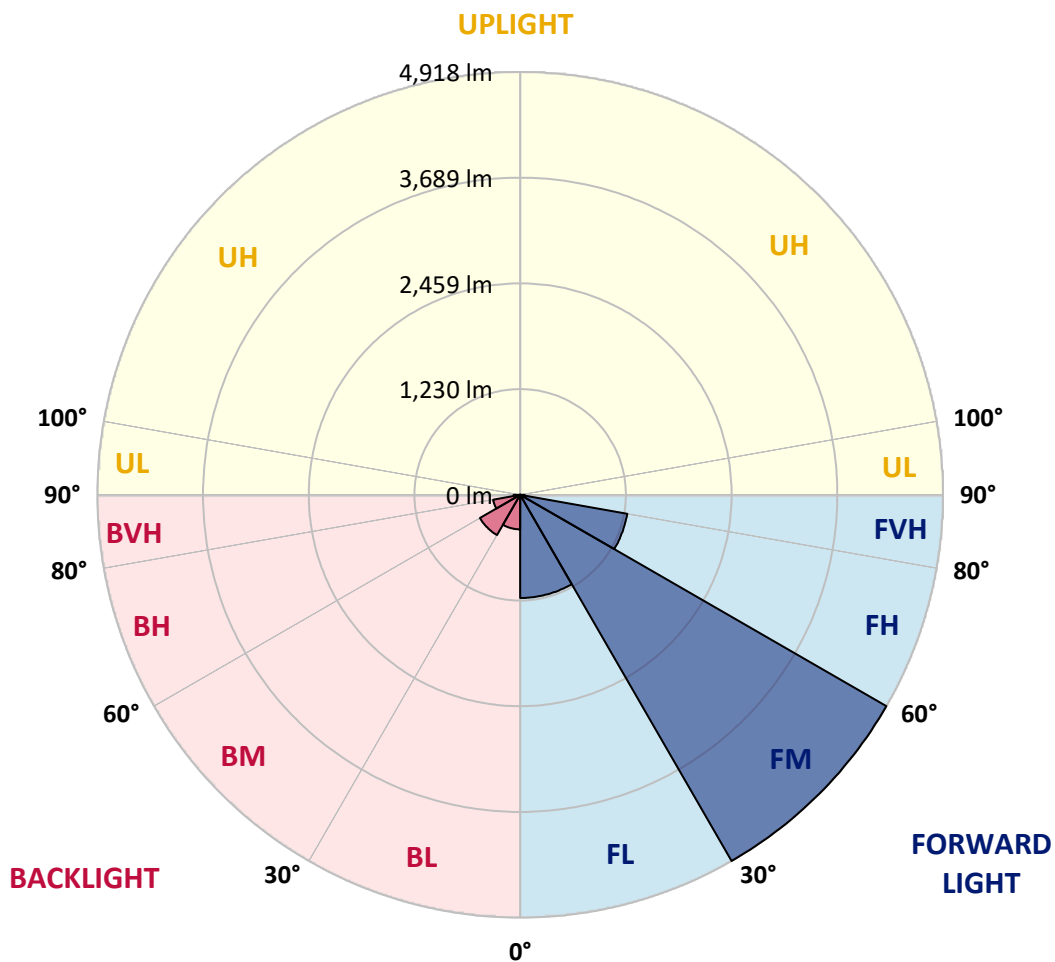
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1199.9	13.7			
FM	(30°-60°)	4918.5	56.1			
FH	(60°-80°)	1264.7	14.4			G1/1800
FVH	(80°-90°)	49.9	0.6			G1/100
BL	(0°-30°)	402.0	4.6	B1/500		
BM	(30°-60°)	539.9	6.2	B1/1000		
BH	(60°-80°)	319.2	3.6	B1/500		G1/500
BVH	(80°-90°)	76.5	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°	2329.8	2329.8	2329.8	2329.8	2329.8	2329.8	2329.8	2329.8	2329.8	2329.8	2329.8
2.5°	2662.1	2640.7	2627.1	2615.1	2599.3	2566.0	2521.0	2492.4	2478.0	2428.8	2370.5
5°	2923.2	2904.2	2890.1	2874.0	2846.0	2793.5	2720.8	2662.9	2634.5	2536.3	2419.8
7.5°	2862.1	2869.9	2894.2	2936.7	2973.2	2966.2	2901.3	2827.8	2790.1	2653.6	2476.7
10°	2493.7	2507.3	2549.4	2648.9	2810.0	2975.2	3025.6	2974.7	2936.7	2769.6	2535.3
12.5°	2419.8	2419.3	2422.5	2449.0	2544.9	2777.4	3029.8	3080.9	3058.2	2880.2	2595.3
15°	2449.9	2450.8	2448.2	2459.4	2489.2	2581.2	2903.3	3121.8	3137.9	2991.7	2657.2
17.5°	2529.2	2527.1	2517.6	2517.6	2528.4	2564.3	2754.7	3083.8	3158.3	3090.4	2711.8
20°	2662.1	2652.7	2627.5	2604.4	2592.8	2612.2	2693.6	2996.2	3123.0	3176.8	2756.8
22.5°	2823.3	2815.7	2775.0	2725.4	2685.4	2684.9	2725.0	2919.9	3062.3	3258.2	2794.7
25°	3031.4	3019.5	2958.7	2879.3	2809.2	2782.4	2793.5	2916.2	3029.4	3346.5	2828.7
27.5°	3275.8	3254.0	3182.2	3067.7	2964.4	2910.4	2894.2	2983.5	3059.4	3456.0	2875.7
30°	3572.4	3547.2	3455.2	3306.0	3160.2	3071.5	3037.2	3102.8	3159.3	3589.4	2951.3
32.5°	3909.9	3873.5	3767.0	3602.6	3411.0	3275.5	3219.7	3260.6	3305.7	3750.1	3045.9
35°	4376.2	4332.7	4178.6	3952.0	3735.5	3549.4	3460.1	3489.8	3533.7	3989.6	3182.5
37.5°	4694.2	4674.7	4572.3	4359.1	4123.8	3909.5	3771.4	3788.8	3813.7	4289.0	3357.7
40°	4691.2	4699.0	4701.1	4703.2	4543.0	4337.6	4189.4	4171.3	4166.2	4617.6	3556.7
42.5°	4456.2	4488.4	4592.6	4803.5	4901.1	4806.9	4670.9	4618.5	4592.6	5005.0	3767.9
45°	4096.5	4113.9	4308.8	4721.0	5084.3	5271.4	5168.7	5003.4	4956.4	5361.2	3942.9
47.5°	3911.1	3930.1	4052.8	4502.0	5082.3	5646.8	5706.4	5391.6	5307.4	5670.8	4094.0
50°	3469.6	3509.1	3663.6	4121.2	4896.9	5819.5	6268.5	5854.3	5680.0	5972.3	4245.6
52.5°	2658.9	2720.0	2893.0	3495.1	4426.5	5734.1	6718.2	6415.1	6168.9	6284.5	4375.7
55°	1677.1	1722.6	1867.9	2468.5	3540.9	5289.2	6888.7	7021.7	6802.9	6580.3	4488.4
57.5°	911.9	932.1	986.7	1362.9	2303.3	4305.8	6640.1	7367.0	7276.1	6831.4	4573.5
58°	816.1	829.8	863.6	1181.2	2042.7	4037.1	6529.9	7368.3	7322.9	6868.1	4580.1
60°	605.5	598.5	568.3	674.0	1137.0	2789.0	5863.2	7073.3	7206.8	6913.1	4547.8
62.5°	531.9	515.0	453.5	446.5	552.9	1284.8	4486.3	6059.1	6374.2	6656.3	4352.2
65°	499.7	481.5	402.3	376.7	398.9	543.6	2642.8	4544.2	4939.4	5877.3	3851.7
67.5°	475.7	452.2	369.7	334.4	336.1	359.3	1059.3	2862.1	3306.9	4462.4	2995.8
70°	452.7	427.1	342.0	301.6	291.9	284.1	421.2	1432.6	1836.1	2818.7	1910.1
72.5°	427.9	402.7	317.6	275.5	256.8	230.9	275.1	586.1	818.5	1333.5	866.4
75°	391.9	369.3	293.2	252.3	226.0	191.2	207.8	306.1	367.1	531.1	417.5
77.5°	347.7	329.1	266.0	233.3	200.3	155.2	159.8	212.3	235.4	303.9	248.2
80°	249.9	256.5	236.7	209.8	178.5	125.9	122.7	154.9	167.3	195.3	161.4
82.5°	175.4	179.2	195.8	171.3	147.4	99.2	90.5	109.1	116.5	128.5	87.1
85°	121.0	116.9	134.2	119.4	106.5	66.0	62.0	73.9	78.4	79.7	45.0
87.5°	72.8	72.8	77.7	64.0	57.4	34.2	33.4	42.1	45.0	42.9	24.8
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°	2329.8	2329.8	2329.8	2329.8	2329.8	2329.8	2329.8	2329.8	2329.8	2329.8	2329.8
2.5°	2336.0	2306.6	2244.2	2194.2	2131.0	2065.5	2028.6	1989.3	1962.5	1943.2	1974.1
5°	2353.6	2293.8	2164.9	2042.7	1907.6	1767.2	1660.6	1561.6	1492.5	1449.7	1490.1
7.5°	2381.8	2289.6	2084.3	1875.4	1632.9	1399.2	1190.3	1059.3	982.9	945.3	968.9
10°	2413.9	2283.0	1989.8	1648.7	1301.7	1007.3	851.1	798.4	780.9	774.0	777.3
12.5°	2440.9	2268.9	1873.8	1374.4	977.5	795.4	750.4	749.1	752.9	753.7	754.9
15°	2459.7	2248.4	1701.5	1088.7	781.9	724.8	722.3	729.8	736.8	739.7	741.3
17.5°	2472.7	2205.8	1507.0	860.7	700.5	690.5	696.2	705.8	713.3	715.3	716.9
20°	2471.3	2143.4	1275.4	717.7	656.2	656.2	666.2	673.5	674.0	671.6	672.8
22.5°	2458.7	2057.9	1050.7	641.7	617.0	624.1	633.9	626.9	598.0	579.0	580.2
25°	2437.1	1956.0	858.2	593.5	580.7	593.2	590.1	537.2	496.0	477.4	477.4
27.5°	2418.1	1835.3	710.4	551.4	544.4	559.6	508.4	460.6	443.1	434.5	431.5
30°	2404.5	1705.3	611.7	510.9	510.1	498.9	441.1	427.9	425.0	417.9	415.5
32.5°	2407.7	1573.6	548.4	475.4	478.3	427.1	408.9	411.8	409.3	401.8	398.6
35°	2435.0	1448.3	507.2	443.1	434.5	385.7	389.9	395.3	394.4	384.0	380.8
37.5°	2483.8	1329.9	480.0	416.4	379.2	365.2	371.7	380.0	377.8	370.9	368.3
40°	2534.9	1218.3	457.5	395.3	346.4	351.1	356.8	361.4	363.5	365.5	363.9
42.5°	2585.0	1102.0	430.4	373.8	332.9	337.9	340.3	344.9	356.0	363.9	363.5
45°	2614.6	992.4	402.3	343.2	322.1	325.0	323.4	332.5	346.0	359.0	359.3
47.5°	2647.8	907.4	380.0	315.1	311.8	313.9	308.8	318.0	330.3	346.0	347.7
50°	2687.8	856.5	362.1	292.8	297.8	297.8	296.5	304.7	322.1	340.3	343.6
52.5°	2733.3	846.7	347.4	276.7	283.8	283.3	284.6	296.9	315.9	333.7	336.5
55°	2788.6	873.5	331.3	264.7	270.1	271.7	275.9	290.0	306.1	326.3	327.5
57.5°	2852.9	927.9	318.4	255.2	257.8	263.1	269.8	282.4	299.9	322.1	323.4
58°	2863.6	939.5	316.4	254.4	255.2	261.4	268.9	281.3	298.5	323.0	324.2
60°	2864.2	978.0	311.8	250.6	245.7	256.0	264.3	276.7	296.5	325.8	328.7
62.5°	2762.6	977.5	308.5	245.2	235.9	248.7	258.2	272.5	294.5	332.9	338.7
65°	2432.5	888.3	292.8	237.1	228.0	242.1	252.8	269.8	300.3	363.5	367.1
67.5°	1902.7	728.0	263.6	225.6	217.7	235.4	249.5	269.3	306.4	370.5	372.9
70°	1257.9	544.7	231.3	212.3	206.9	227.6	251.0	283.3	299.4	355.5	349.0
72.5°	653.0	382.4	205.3	195.8	194.6	220.5	275.1	281.7	292.4	334.4	326.3
75°	342.9	265.5	182.5	177.5	179.7	218.8	324.6	274.3	283.3	320.1	335.7
77.5°	209.8	214.3	163.1	161.1	165.2	213.9	324.2	264.7	270.1	294.5	311.8
80°	140.4	173.9	148.3	148.7	151.5	195.8	291.2	249.9	254.0	278.4	296.1
82.5°	88.8	102.9	134.7	141.7	137.9	161.4	247.5	227.6	233.3	318.4	336.5
85°	45.0	64.4	116.9	136.4	124.3	113.1	200.7	199.5	202.4	229.6	239.9
87.5°	20.7	35.6	91.3	118.9	93.8	70.6	145.7	147.9	159.4	163.1	163.1
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)