

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: P321067

Luminaire Tested: **GAN-SA3A-827-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 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: 10731 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

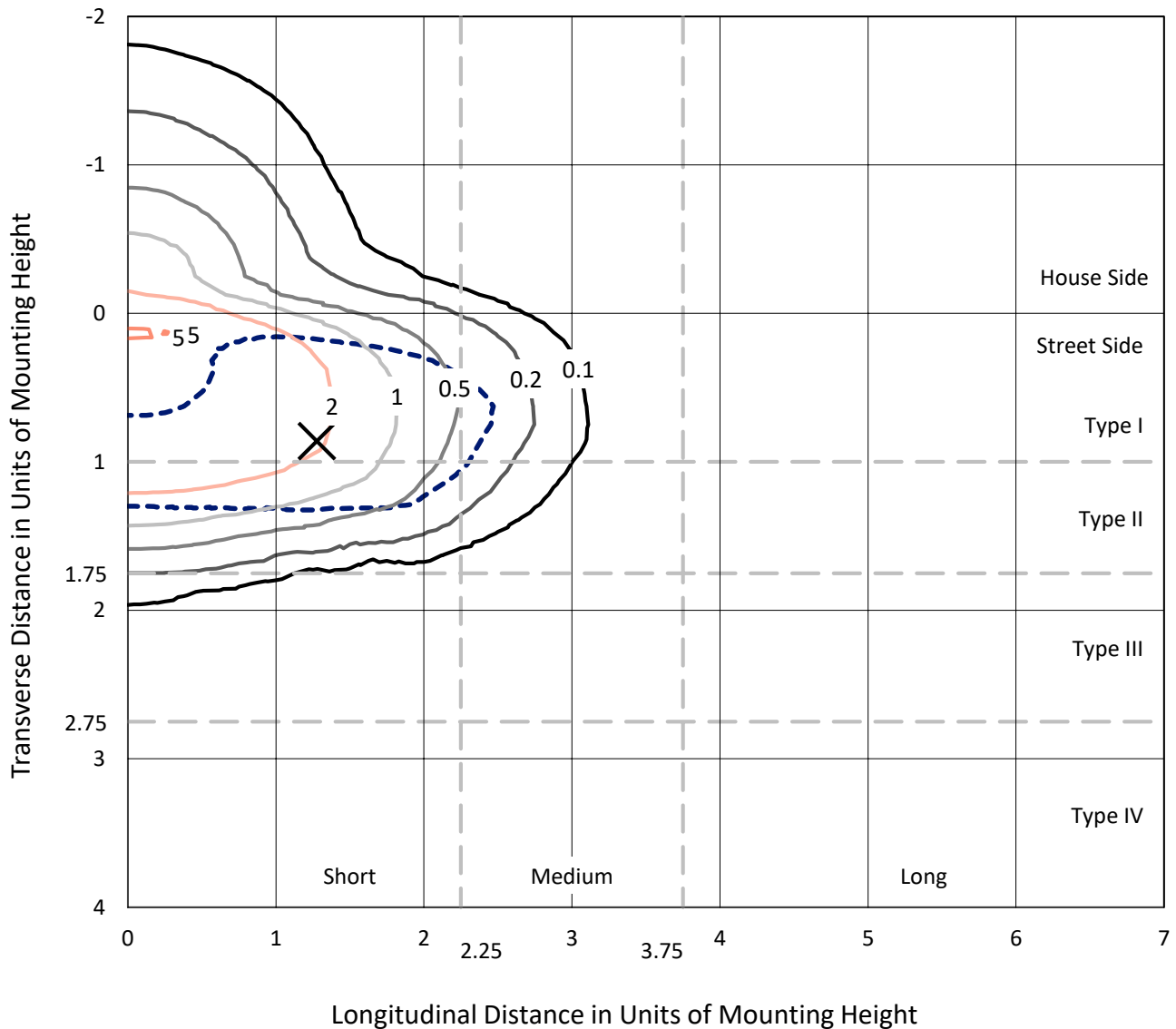
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

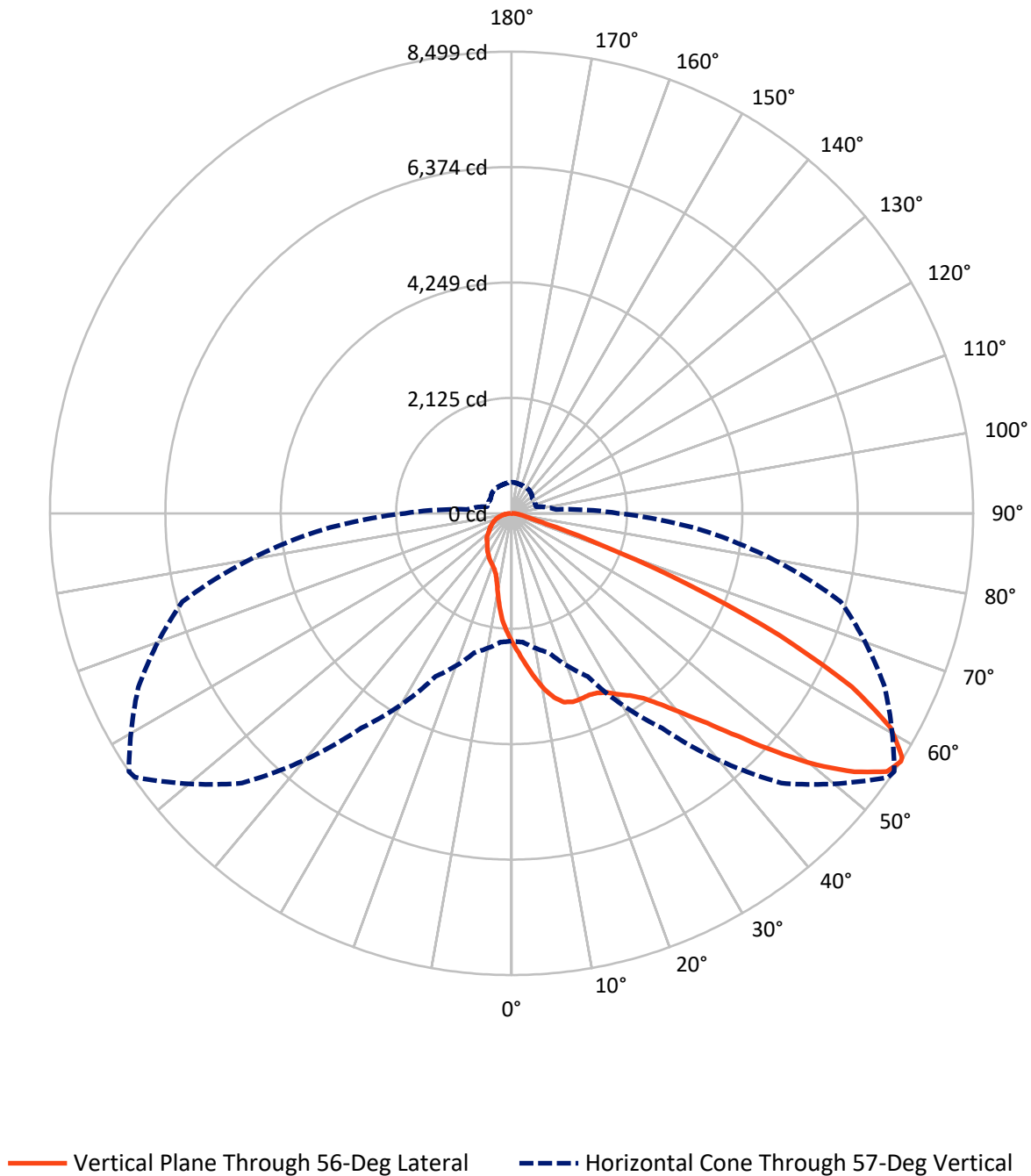
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1849.8	0.0	1849.8
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	8881.2	0.0	8881.2
	% Fixture	82.8	0.0	82.8
Total	Lumens	10731.0	0.0	10731.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.4	2.1
10°-20°	642.8	6.0
20°-30°	1047.0	9.8
30°-40°	1565.2	14.6
40°-50°	2374.0	22.1
50°-60°	2660.9	24.8
60°-70°	1571.6	14.6
70°-80°	514.9	4.8
80°-90°	127.2	1.2
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°	10731.0	100.0
0°-180°	10731.0	100.0

Coefficient of Utilization



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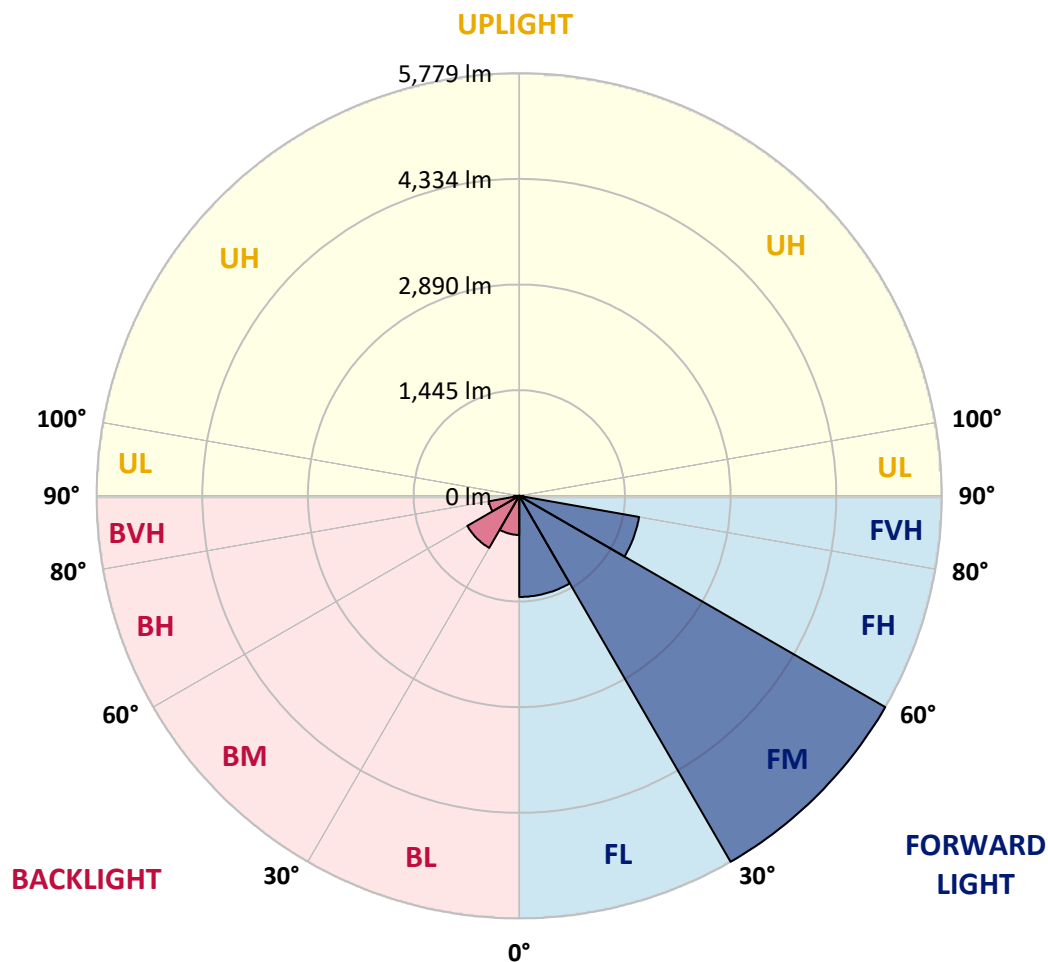
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1382.3	12.9			
FM	(30°-60°)	5779.0	53.9			
FH	(60°-80°)	1663.9	15.5			G1/1800
FVH	(80°-90°)	56.0	0.5			G1/100
BL	(0°-30°)	534.9	5.0	B2/1000		
BM	(30°-60°)	821.1	7.7	B1/1000		
BH	(60°-80°)	422.7	3.9	B1/500		G1/500
BVH	(80°-90°)	71.2	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1
2.5°	2733.1	2758.2	2747.1	2708.7	2679.2	2637.6	2591.1	2577.1	2528.0	2473.1	2407.1
5°	3165.7	3153.1	3135.1	3075.3	3012.2	2938.9	2822.3	2803.9	2694.7	2570.4	2439.2
7.5°	3412.0	3410.9	3400.2	3365.2	3307.6	3211.8	3071.3	3049.5	2884.6	2684.8	2481.2
10°	3376.2	3373.7	3391.4	3427.9	3445.2	3425.3	3306.9	3285.1	3082.7	2811.3	2529.9
12.5°	3173.0	3174.5	3202.9	3279.6	3384.0	3509.4	3490.2	3479.5	3288.1	2954.3	2588.9
15°	3014.8	3018.1	3040.6	3107.4	3230.6	3458.1	3601.6	3605.3	3486.9	3112.2	2657.8
17.5°	2945.5	2952.5	2962.8	3009.7	3122.5	3356.0	3628.1	3648.0	3660.9	3275.9	2724.2
20°	2967.6	2974.3	2977.2	3007.1	3099.6	3294.0	3609.7	3645.5	3794.4	3430.1	2790.6
22.5°	3066.8	3070.9	3072.7	3080.5	3152.4	3311.7	3597.5	3635.1	3891.1	3568.4	2840.8
25°	3231.3	3228.4	3216.6	3206.6	3254.9	3381.8	3625.5	3661.3	3969.6	3693.8	2873.6
27.5°	3428.2	3424.5	3401.7	3374.4	3402.1	3490.9	3706.3	3734.7	4040.1	3811.0	2890.2
30°	3664.6	3655.0	3611.9	3579.4	3590.1	3654.7	3839.4	3865.2	4148.8	3944.2	2906.4
32.5°	3937.9	3927.6	3865.2	3811.4	3811.4	3865.2	3976.6	3998.0	4241.0	4094.6	2932.6
35°	4280.1	4267.2	4186.1	4095.7	4070.3	4097.6	4163.6	4178.7	4407.0	4284.2	2980.2
37.5°	4683.6	4666.3	4561.1	4440.2	4384.5	4383.0	4430.6	4461.6	4672.2	4533.1	3060.9
40°	5088.1	5076.0	4984.1	4889.0	4779.8	4744.8	4818.2	4827.8	5018.8	4842.2	3164.2
42.5°	5400.9	5398.7	5381.7	5394.2	5282.5	5211.7	5269.2	5277.0	5442.2	5176.7	3274.1
45°	5566.1	5569.8	5652.0	5834.2	5875.5	5823.9	5852.3	5854.5	5926.0	5514.1	3374.8
47.5°	5433.7	5452.9	5660.9	6068.4	6406.6	6578.0	6530.8	6558.1	6395.1	5804.0	3453.7
50°	4917.8	4941.4	5295.4	5964.0	6654.4	7307.9	7283.2	7276.9	6773.5	6016.4	3496.5
52.5°	4278.7	4297.1	4589.2	5421.5	6472.6	7711.3	7938.1	7905.7	7109.8	6175.3	3504.6
55°	3305.4	3334.2	3614.1	4338.8	5737.2	7557.2	8419.8	8390.6	7416.3	6258.7	3495.0
57°	2349.9	2380.1	2658.2	3311.3	4826.3	7023.5	8467.7	8498.7	7581.9	6272.7	3505.7
57.5°	2096.9	2127.9	2403.4	3037.7	4542.3	6830.7	8426.4	8478.0	7611.7	6270.5	3511.6
60°	1055.8	1067.6	1243.2	1695.7	2871.4	5522.2	7887.6	8020.7	7638.7	6162.0	3537.0
62.5°	656.4	648.0	642.4	781.1	1397.0	3662.0	6775.7	7032.0	7123.5	5899.5	3475.4
65°	577.2	561.3	500.4	489.4	617.0	1778.7	5102.5	5421.5	6022.6	5485.7	3328.7
67.5°	542.1	526.6	458.0	416.7	417.1	705.1	3167.9	3527.1	4691.7	4786.1	2982.4
70°	506.0	492.0	427.8	379.1	355.1	390.5	1457.4	1730.0	3058.3	3762.0	2492.6
72.5°	459.5	449.9	389.1	338.9	313.5	292.4	558.0	659.0	1770.5	2526.6	1731.1
75°	410.8	402.0	350.0	302.0	271.1	230.1	314.2	338.5	899.5	1292.6	852.3
77.5°	357.4	352.2	311.3	267.0	242.3	190.7	222.4	234.2	385.8	554.3	427.4
80°	284.3	294.3	272.2	237.9	215.0	152.7	157.5	165.2	224.6	270.7	242.7
82.5°	185.1	202.5	213.2	193.2	177.0	120.2	113.2	116.5	146.4	165.2	105.5
85°	77.1	86.7	140.1	126.5	117.6	87.8	76.0	77.4	90.7	94.0	43.1
87.5°	34.3	36.5	61.6	57.9	49.8	30.2	32.5	35.4	48.3	45.7	16.6
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°	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1
2.5°	2382.4	2351.4	2298.3	2239.6	2191.7	2153.3	2114.6	2088.1	2057.1	2040.5	2032.0
5°	2384.2	2323.4	2211.6	2096.9	1994.4	1900.7	1811.5	1742.9	1678.7	1644.0	1634.5
7.5°	2391.9	2300.5	2119.8	1931.0	1748.8	1582.5	1454.1	1373.7	1315.8	1290.0	1282.6
10°	2398.2	2273.6	2006.2	1726.7	1478.8	1310.3	1210.7	1165.7	1145.8	1142.5	1139.2
12.5°	2413.0	2245.9	1886.7	1513.5	1269.0	1152.5	1117.8	1114.8	1120.4	1128.5	1128.5
15°	2436.2	2218.6	1750.3	1330.6	1135.5	1094.6	1101.6	1117.8	1132.9	1145.4	1147.3
17.5°	2453.2	2185.1	1603.5	1184.2	1064.3	1075.4	1100.5	1123.3	1138.8	1151.0	1152.1
20°	2465.3	2133.1	1446.7	1072.4	1023.4	1057.7	1089.0	1109.3	1120.0	1132.2	1134.0
22.5°	2459.1	2063.4	1307.7	992.4	990.2	1031.9	1061.7	1086.1	1078.0	1066.2	1073.9
25°	2428.8	1967.5	1164.6	932.7	955.2	997.2	1034.1	1017.8	990.6	985.4	988.3
27.5°	2375.0	1845.0	1032.2	877.3	914.6	965.1	962.9	946.7	937.1	930.4	934.5
30°	2317.1	1712.3	916.4	829.0	869.6	911.3	902.8	902.4	892.8	882.1	887.3
32.5°	2259.9	1578.8	824.6	789.2	835.7	841.2	859.6	865.2	846.4	823.9	822.4
35°	2210.1	1452.6	754.9	753.1	794.7	795.5	822.4	814.6	767.8	744.6	744.6
37.5°	2172.9	1326.9	701.8	720.6	740.9	760.1	773.7	741.6	733.9	721.0	720.6
40°	2156.7	1216.3	668.6	695.9	702.9	727.2	692.2	704.8	708.4	701.8	701.8
42.5°	2139.7	1120.0	639.8	677.1	676.0	672.7	655.0	671.2	685.9	686.3	685.2
45°	2122.7	1037.0	614.4	636.9	652.4	616.6	619.9	637.3	657.9	665.3	665.3
47.5°	2103.9	971.4	591.2	594.5	618.5	594.5	591.9	605.2	629.5	641.3	643.9
50°	2062.6	912.4	564.6	557.2	563.9	572.0	574.2	580.5	607.4	626.2	630.6
52.5°	2005.5	859.6	530.7	522.9	522.9	553.5	563.9	565.7	588.6	611.1	615.5
55°	1957.9	826.1	495.6	494.2	492.7	534.0	551.7	554.7	570.5	588.2	590.4
57°	1961.2	823.5	468.7	470.2	469.8	514.1	540.3	546.5	554.7	569.8	572.4
57.5°	1963.0	825.3	462.8	463.6	463.2	508.6	537.0	544.0	550.2	566.1	568.7
60°	1990.7	830.1	438.9	430.7	432.6	479.1	518.1	527.0	531.1	552.1	555.4
62.5°	1949.8	808.7	419.7	400.1	400.1	448.1	492.0	506.0	512.2	540.6	546.2
65°	1831.0	748.6	397.2	365.5	369.2	417.1	460.6	483.5	493.1	528.5	534.4
67.5°	1647.7	678.9	373.2	334.5	338.2	384.6	428.2	452.9	468.0	515.2	520.0
70°	1409.1	593.7	340.8	301.7	306.1	349.2	389.8	417.8	440.3	502.7	504.1
72.5°	1038.9	486.8	295.4	265.5	270.3	307.9	351.1	383.5	413.8	471.3	470.6
75°	617.7	380.6	245.2	229.0	232.3	267.4	316.0	355.5	400.9	459.1	466.1
77.5°	374.7	286.5	199.9	191.8	195.8	231.6	291.0	333.0	395.3	433.0	430.7
80°	226.4	204.7	159.7	154.5	158.6	198.0	269.2	316.0	345.6	369.9	369.9
82.5°	118.4	125.0	117.3	113.2	118.7	160.8	244.9	275.9	305.4	262.2	244.9
85°	48.3	65.3	71.2	70.8	74.1	111.4	211.3	236.0	196.9	187.0	191.4
87.5°	16.2	27.7	34.7	29.9	31.3	70.1	146.4	114.0	135.3	94.4	89.6
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)