

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: P266657

Luminaire Tested: **GAN-AF-02-LED-U-AFL-7027-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266657
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-7027-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11908.3 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 129
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

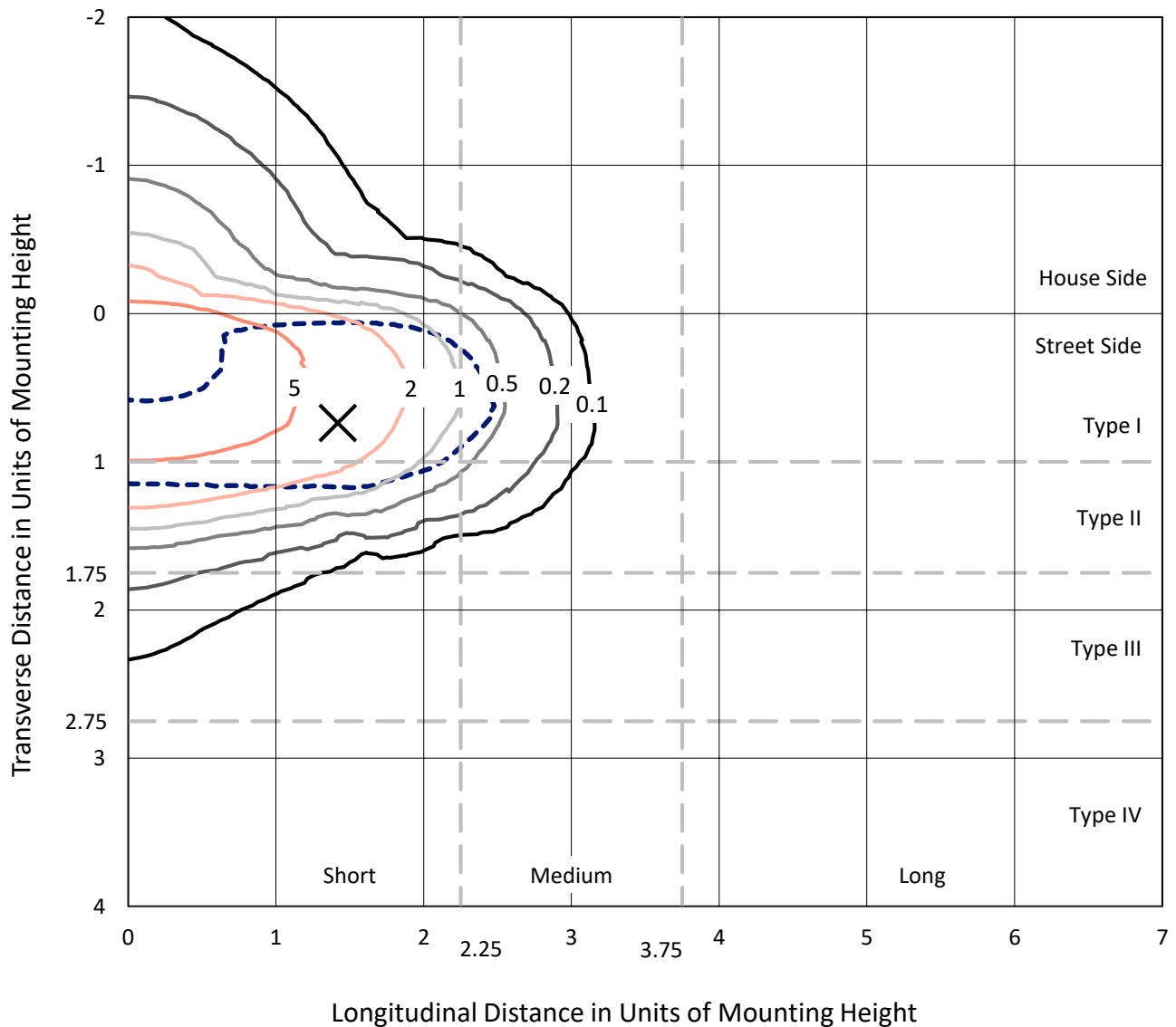


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

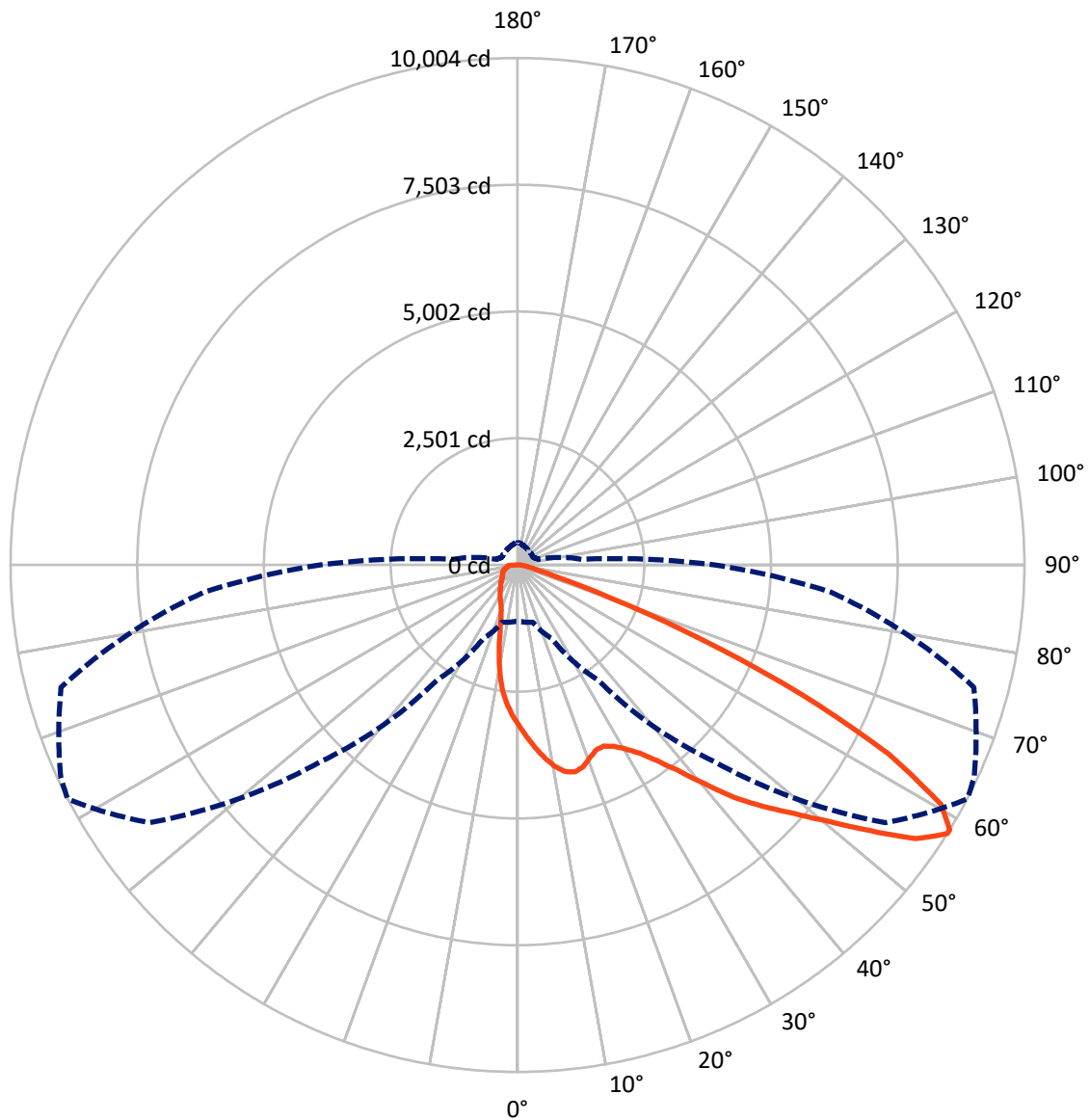


Based on 20 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - Full Cutoff

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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	1816.1	0.0	1816.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	10092.3	0.0	10092.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	11908.3	0.0	11908.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.9	2.4
10°-20°	723.1	6.1
20°-30°	1169.0	9.8
30°-40°	1855.7	15.6
40°-50°	2715.3	22.8
50°-60°	2840.0	23.8
60°-70°	1677.9	14.1
70°-80°	472.7	4.0
80°-90°	171.6	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°	11908.3	100.0
0°-180°	11908.3	100.0

Coefficient of Utilization



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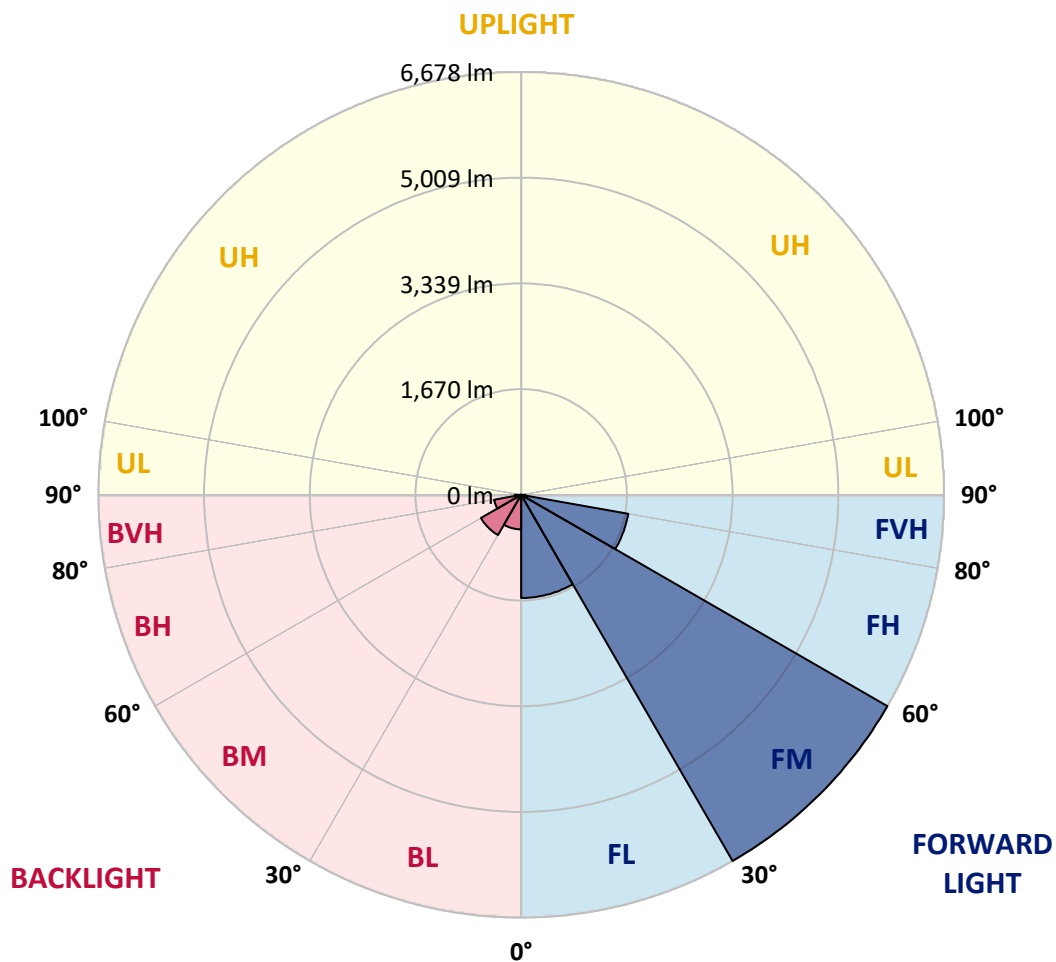
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1629.2	13.7			
FM	(30°-60°)	6678.1	56.1			
FH	(60°-80°)	1717.2	14.4			G1/1800
FVH	(80°-90°)	67.7	0.6			G1/100
BL	(0°-30°)	545.8	4.6	B2/1000		
BM	(30°-60°)	733.0	6.2	B1/1000		
BH	(60°-80°)	433.3	3.6	B1/500		G1/500
BVH	(80°-90°)	103.9	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	3163.2	3163.2	3163.2	3163.2	3163.2	3163.2	3163.2	3163.2	3163.2	3163.2	3163.2
2.5°	3614.6	3585.4	3566.9	3550.7	3529.4	3483.9	3422.8	3384.2	3364.5	3297.8	3218.6
5°	3969.0	3943.2	3924.2	3902.2	3864.1	3793.0	3694.2	3615.7	3577.1	3443.7	3285.5
7.5°	3886.0	3896.7	3929.7	3987.4	4036.9	4027.3	3939.2	3839.4	3788.4	3602.8	3362.9
10°	3385.8	3404.3	3461.4	3596.6	3815.3	4039.7	4108.0	4039.0	3987.4	3760.5	3442.5
12.5°	3285.5	3284.9	3289.4	3325.3	3455.3	3771.1	4113.7	4183.1	4152.3	3910.7	3523.8
15°	3326.3	3327.5	3324.2	3339.3	3379.7	3504.6	3942.1	4238.7	4260.7	4062.0	3608.0
17.5°	3434.0	3431.3	3418.3	3418.3	3433.0	3481.7	3740.3	4187.1	4288.1	4196.2	3682.0
20°	3614.6	3601.8	3567.4	3536.1	3520.4	3546.8	3657.2	4068.2	4240.4	4313.3	3743.0
22.5°	3833.2	3823.1	3767.8	3700.4	3646.0	3645.4	3699.8	3964.5	4158.0	4423.8	3794.6
25°	4115.9	4099.7	4017.2	3909.6	3814.3	3777.8	3793.0	3959.5	4113.1	4543.7	3840.7
27.5°	4447.9	4418.1	4320.6	4165.4	4025.0	3951.6	3929.7	4050.8	4154.0	4692.3	3904.6
30°	4850.5	4816.4	4691.3	4488.8	4290.8	4170.3	4123.8	4213.0	4289.8	4873.5	4007.1
32.5°	5308.7	5259.2	5114.6	4891.5	4631.2	4447.2	4371.6	4427.1	4488.2	5091.7	4135.5
35°	5941.7	5882.8	5673.6	5365.8	5072.0	4819.0	4698.0	4738.4	4797.8	5416.9	4321.1
37.5°	6373.6	6347.2	6208.0	5918.8	5599.1	5308.1	5120.8	5144.4	5178.0	5823.4	4558.9
40°	6369.6	6380.2	6383.0	6385.8	6168.3	5889.6	5688.2	5663.6	5656.8	6269.8	4829.2
42.5°	6050.5	6094.2	6235.6	6522.1	6654.5	6526.5	6342.2	6270.9	6235.6	6795.8	5115.8
45°	5562.0	5585.7	5850.3	6409.9	6903.5	7157.4	7017.7	6793.5	6729.7	7279.1	5353.4
47.5°	5310.3	5336.1	5502.7	6112.7	6900.6	7667.2	7747.9	7320.6	7206.3	7699.7	5558.7
50°	4710.9	4764.7	4974.5	5595.7	6648.9	7901.5	8511.1	7948.7	7711.9	8109.0	5764.6
52.5°	3610.1	3693.1	3928.1	4745.7	6010.1	7785.5	9121.7	8710.1	8375.9	8533.0	5941.2
55°	2277.3	2338.8	2536.3	3351.7	4807.9	7181.6	9353.3	9533.9	9236.7	8934.5	6094.2
57.5°	1238.1	1265.6	1339.6	1850.5	3127.3	5846.3	9015.7	10002.6	9879.3	9275.4	6209.8
58°	1108.1	1126.6	1172.6	1603.7	2773.4	5481.4	8866.0	10004.3	9942.7	9325.3	6218.7
60°	822.0	812.5	771.6	915.2	1543.7	3786.7	7961.0	9604.0	9785.1	9386.4	6174.9
62.5°	722.2	699.3	615.7	606.1	750.9	1744.5	6091.4	8226.8	8654.6	9037.7	5909.2
65°	678.5	653.8	546.2	511.5	541.7	738.0	3588.3	6170.0	6706.6	7980.1	5229.6
67.5°	646.1	614.0	501.9	454.3	456.5	487.9	1438.4	3886.0	4490.0	6058.9	4067.6
70°	614.6	579.9	464.3	409.4	396.4	385.8	572.0	1945.3	2493.1	3827.0	2593.4
72.5°	580.9	546.7	431.2	374.1	348.8	313.5	373.4	795.7	1111.5	1810.7	1176.5
75°	532.2	501.3	398.0	342.7	306.7	259.6	282.1	415.6	498.5	721.1	566.9
77.5°	472.1	446.9	361.1	316.8	271.9	210.8	217.0	288.3	319.6	412.7	337.0
80°	339.3	348.3	321.4	284.9	242.3	171.0	166.5	210.3	227.1	265.2	219.2
82.5°	238.3	243.4	265.8	232.8	200.2	134.6	122.8	148.0	158.1	174.5	118.3
85°	164.3	158.7	182.3	162.1	144.6	89.7	84.1	100.4	106.5	108.2	61.2
87.5°	98.8	98.8	105.5	87.0	78.0	46.5	45.5	57.2	61.2	58.3	33.6
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°	3163.2	3163.2	3163.2	3163.2	3163.2	3163.2	3163.2	3163.2	3163.2	3163.2	3163.2
2.5°	3171.6	3131.9	3047.1	2979.3	2893.5	2804.2	2754.5	2701.2	2664.7	2638.3	2680.5
5°	3195.7	3114.5	2939.4	2773.4	2590.2	2399.5	2254.7	2120.2	2026.5	1968.2	2023.3
7.5°	3233.9	3108.9	2830.1	2546.3	2217.1	1899.8	1616.1	1438.4	1334.6	1283.6	1315.5
10°	3277.6	3099.8	2701.7	2238.5	1767.4	1367.7	1155.7	1084.0	1060.4	1050.8	1055.2
12.5°	3314.0	3080.7	2544.1	1866.1	1327.2	1080.0	1018.9	1017.2	1022.2	1023.3	1025.1
15°	3339.9	3052.7	2310.4	1478.2	1061.4	984.2	980.8	990.8	1000.4	1004.3	1006.6
17.5°	3357.2	2994.9	2046.2	1168.7	951.0	937.7	945.5	958.3	968.5	971.2	973.5
20°	3355.6	2910.2	1731.7	974.7	890.9	890.9	904.6	914.6	915.2	911.8	913.4
22.5°	3338.1	2794.2	1426.6	871.4	837.8	847.3	860.8	851.2	812.0	786.1	787.9
25°	3308.9	2655.7	1165.2	805.8	788.4	805.2	801.3	729.6	673.5	648.2	648.2
27.5°	3283.1	2492.0	964.5	748.6	739.0	759.8	690.3	625.2	601.7	589.8	586.0
30°	3264.7	2315.3	830.5	693.6	692.6	677.4	598.9	580.9	577.0	567.5	564.1
32.5°	3269.2	2136.4	744.7	645.4	649.4	579.9	555.2	559.0	555.7	545.6	541.0
35°	3306.2	1966.6	688.6	601.7	589.8	523.7	529.3	536.6	535.5	521.5	517.1
37.5°	3372.3	1805.7	651.6	565.3	514.8	495.8	504.7	515.8	513.1	503.6	500.1
40°	3441.9	1654.1	621.3	536.6	470.4	476.6	484.5	490.7	493.4	496.3	494.0
42.5°	3509.8	1496.0	584.3	507.5	451.9	458.7	462.1	468.2	483.4	494.0	493.4
45°	3550.1	1347.5	546.2	466.0	437.4	441.2	439.1	451.4	470.0	487.3	487.9
47.5°	3594.9	1231.9	515.8	427.9	423.5	426.2	419.5	431.7	448.7	470.0	472.1
50°	3649.4	1162.9	491.8	397.6	404.2	404.2	402.6	413.8	437.4	462.1	466.5
52.5°	3711.1	1149.6	471.6	375.8	385.3	384.7	386.4	403.2	429.0	453.0	457.0
55°	3786.1	1186.0	449.7	359.4	366.8	368.9	374.6	393.6	415.6	443.0	444.8
57.5°	3873.8	1260.1	432.4	346.6	349.9	357.2	366.1	383.5	407.1	437.4	439.1
58°	3888.3	1275.8	429.5	345.4	346.6	355.0	365.0	381.9	405.5	438.6	440.2
60°	3888.9	1327.9	423.5	340.4	333.6	347.6	359.0	375.8	402.6	442.4	446.4
62.5°	3750.9	1327.2	418.9	333.1	320.2	337.6	350.5	370.1	399.8	451.9	459.8
65°	3302.8	1206.2	397.6	321.9	309.6	328.6	343.2	366.1	407.7	493.4	498.5
67.5°	2583.3	988.7	357.7	306.1	295.5	319.6	338.8	365.6	416.1	503.1	506.4
70°	1708.0	739.7	314.0	288.3	280.9	308.9	340.9	384.7	406.6	482.7	473.9
72.5°	886.5	519.3	278.7	265.8	264.1	299.4	373.4	382.4	397.1	454.3	443.0
75°	465.4	360.6	247.8	241.1	243.9	297.2	440.8	372.3	384.7	434.6	455.9
77.5°	284.9	291.1	221.5	218.6	224.2	290.5	440.2	359.4	366.8	399.8	423.5
80°	190.7	236.1	201.3	201.8	205.8	265.8	395.3	339.3	344.9	377.9	402.0
82.5°	120.6	139.6	182.8	192.3	187.2	219.2	335.8	308.9	316.8	432.4	457.0
85°	61.2	87.5	158.7	185.1	168.8	153.6	272.5	270.8	274.8	311.8	325.7
87.5°	28.0	48.1	124.0	161.4	127.3	95.8	197.9	200.7	216.4	221.5	221.5
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)