

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: P193282

Luminaire Tested: **GAN-AF-04-LED-U-T4FT-7030-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-T4FT-7030-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25628.9 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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

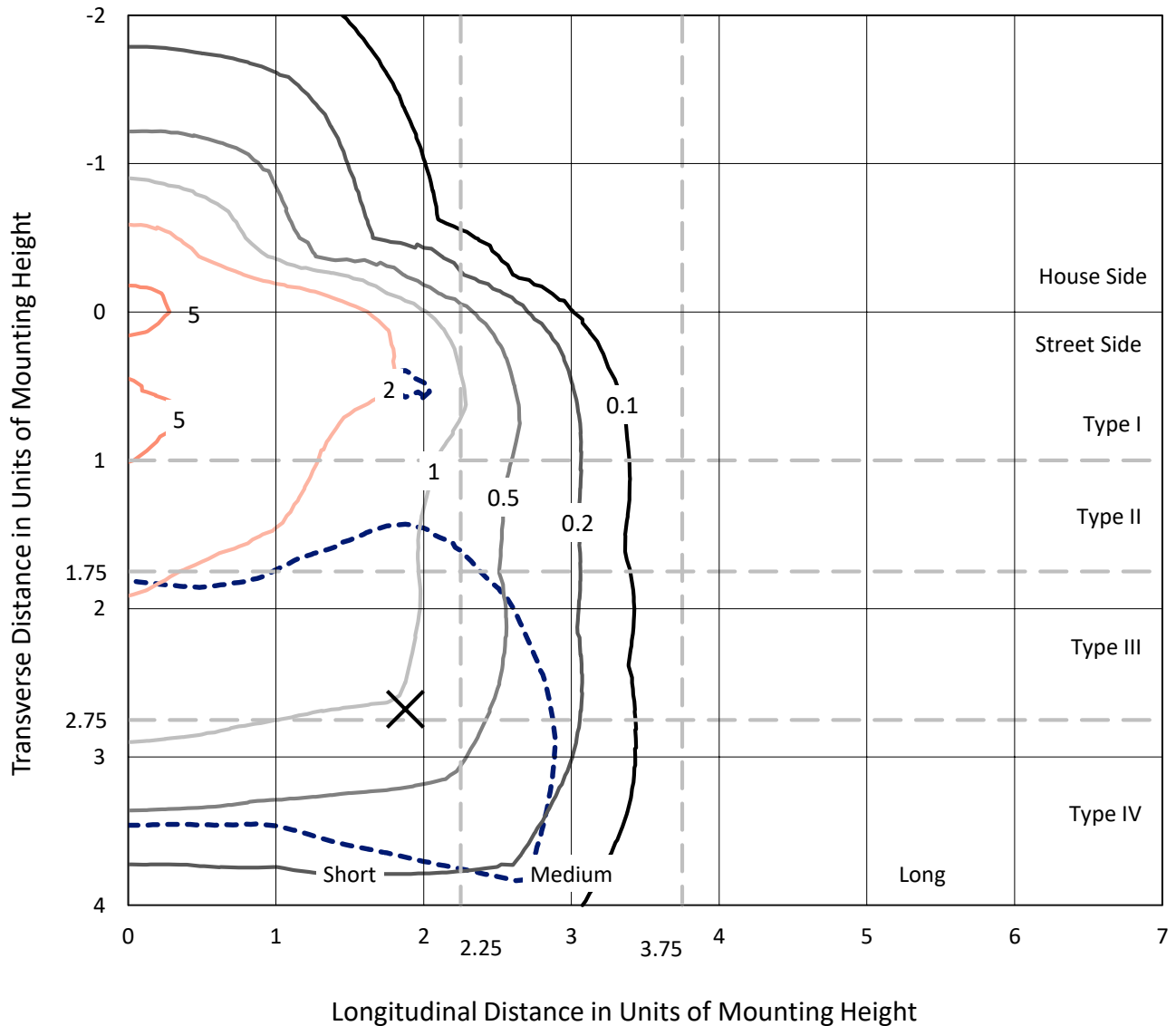


REPORT NUMBER: P193282

CATALOG NUMBER: GAN-AF-04-LED-U-T4FT-7030-1200-ADJ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

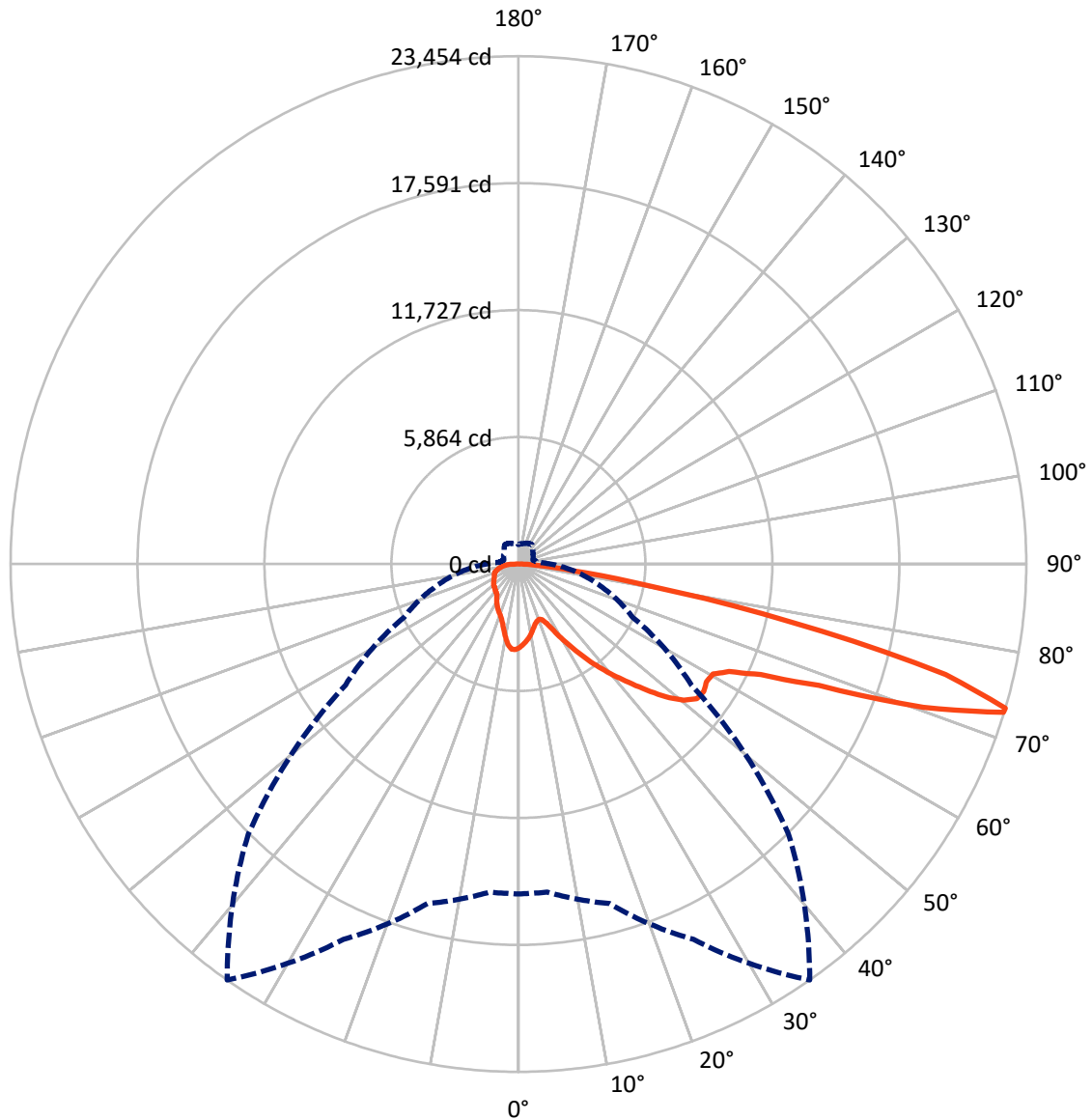


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P193282

CATALOG NUMBER: GAN-AF-04-LED-U-T4FT-7030-1200-ADJ

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4888.1	0.0	4888.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	20740.8	0.0	20740.8
	% Fixture	80.9	0.0	80.9
Total	Lumens	25628.9	0.0	25628.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.2	1.4
10°-20°	874.0	3.4
20°-30°	1413.0	5.5
30°-40°	2369.3	9.2
40°-50°	3652.2	14.3
50°-60°	4899.8	19.1
60°-70°	6527.6	25.5
70°-80°	4978.6	19.4
80°-90°	564.3	2.2
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°	25628.9	100.0
0°-180°	25628.9	100.0

Coefficient of Utilization



REPORT NUMBER: P193282

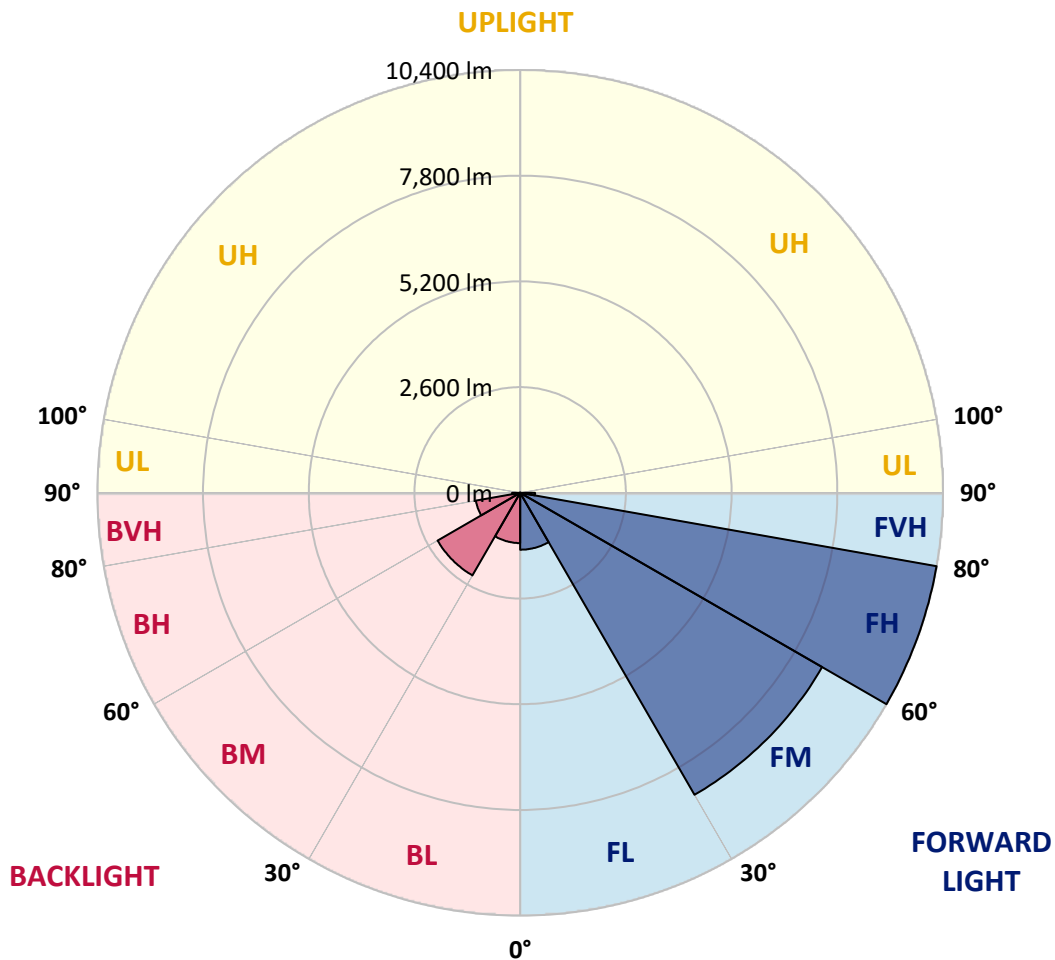
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1400.2	5.5			
FM	(30°-60°)	8575.6	33.5			
FH	(60°-80°)	10400.2	40.6			G4/12000
FVH	(80°-90°)	364.8	1.4			G3/500
BL	(0°-30°)	1236.9	4.8	B3/2500		
BM	(30°-60°)	2345.8	9.2	B2/2500		
BH	(60°-80°)	1105.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	199.5	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





REPORT NUMBER: P193282

CATALOG NUMBER: GAN-AF-04-LED-U-T4FT-7030-1200-ADJ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3868.3	3868.3	3868.3	3868.3	3868.3	3868.3	3868.3	3868.3	3868.3	3868.3	3868.3
2.5°	3715.6	3723.0	3714.4	3725.4	3743.9	3763.6	3777.1	3796.9	3818.9	3849.7	3857.2
5°	3540.9	3551.9	3551.9	3571.5	3607.3	3639.3	3668.8	3700.8	3747.6	3800.5	3821.5
7.5°	3348.8	3355.1	3366.1	3395.6	3447.2	3492.8	3534.6	3586.3	3650.4	3720.5	3757.4
10°	3117.5	3126.0	3143.3	3185.1	3255.3	3318.1	3378.4	3449.8	3530.9	3618.3	3665.1
12.5°	2953.8	2951.3	2958.7	2989.5	3050.9	3127.3	3214.7	3305.7	3405.4	3507.6	3564.2
15°	2898.4	2884.9	2856.6	2849.2	2882.4	2958.7	3059.6	3171.6	3291.0	3414.1	3484.2
17.5°	2932.8	2909.5	2831.9	2775.3	2770.4	2828.2	2935.4	3060.8	3198.7	3348.8	3436.2
20°	3149.5	3094.1	2903.3	2771.6	2726.1	2754.4	2848.0	2980.8	3143.3	3342.7	3454.7
22.5°	3667.7	3586.3	3181.4	2936.6	2782.8	2748.2	2818.4	2960.0	3149.5	3418.9	3561.8
25°	4422.0	4306.4	3659.0	3347.6	3030.1	2846.6	2862.7	3007.9	3236.8	3596.2	3768.5
27.5°	5017.7	4942.7	4283.0	3927.4	3480.6	3112.6	3006.7	3128.5	3415.3	3886.7	4062.7
30°	5372.2	5326.6	4950.0	4584.5	4055.2	3535.9	3282.3	3355.1	3694.7	4289.1	4434.4
32.5°	5783.2	5756.1	5571.5	5235.6	4675.5	4092.2	3719.3	3693.4	4068.9	4772.8	4839.2
35°	6209.1	6200.5	6092.2	5851.0	5341.3	4825.8	4299.0	4124.2	4476.2	5274.9	5233.1
37.5°	6605.4	6590.6	6527.8	6387.6	6038.0	5613.4	4889.7	4566.1	4915.6	5754.9	5569.1
40°	7335.2	7219.6	7004.2	6898.3	6742.0	6276.7	5358.6	4978.3	5370.9	6212.8	5859.6
42.5°	8225.0	8036.7	7635.5	7490.3	7468.1	6799.9	5678.6	5378.3	5830.0	6666.9	6145.1
45°	8925.3	8748.1	8402.2	8218.8	8300.1	7273.6	5999.9	5805.4	6302.6	7143.2	6439.2
47.5°	9672.4	9394.2	8936.5	8991.7	9169.0	7721.7	6327.2	6264.5	6820.7	7676.1	6804.7
50°	9699.4	9486.6	9286.0	9617.0	9892.7	8134.0	6737.0	6745.6	7454.5	8346.9	7290.9
52.5°	9137.1	9091.5	9410.2	9930.8	10328.4	8460.1	7203.5	7242.9	8265.6	9117.2	7825.0
55°	8940.0	8888.4	9256.3	9821.4	10387.4	8729.6	7709.4	7780.7	9246.5	9929.6	8345.7
57.5°	9420.0	9305.6	9330.2	9769.6	10243.4	9025.1	8260.6	8404.7	10312.3	10639.6	8680.4
60°	10761.6	10516.6	10051.5	10040.4	10320.9	9468.1	8898.2	9074.2	11420.0	10979.4	8550.0
62.5°	12643.4	12398.4	11527.1	10959.7	10917.8	10199.2	9680.9	9727.8	12060.0	10519.2	7753.7
65°	14680.2	14461.1	13487.6	12686.4	12300.0	11410.2	10590.5	10019.4	11850.8	9252.6	6360.4
67.5°	17152.7	16917.7	16080.8	15341.1	14969.4	13364.6	11229.2	9740.0	10522.8	7167.9	4572.2
70°	18881.9	18642.0	18312.1	18911.4	19821.0	16184.1	11311.7	8604.0	7859.4	4764.1	2751.9
72.5°	16626.0	16514.0	17115.9	19640.1	23428.3	17894.9	10224.9	6264.5	4564.9	2529.2	1592.6
73°	15232.8	15208.3	16234.7	19129.3	23454.1	17631.5	9748.6	5822.7	3915.0	2237.5	1456.0
75°	6878.6	7076.7	9326.5	14611.4	20377.3	14528.9	6861.4	3340.2	2211.6	1545.8	1099.0
77.5°	1652.9	1721.8	2918.1	6938.8	12868.5	8658.2	3108.9	1651.7	1414.2	1091.6	802.4
80°	703.9	727.3	1123.6	2563.7	6058.9	3486.7	1432.6	1106.5	978.4	761.9	562.4
82.5°	391.3	415.9	637.5	1163.1	2445.4	1188.8	873.8	770.4	643.6	459.1	365.6
85°	221.6	235.0	372.9	649.9	1036.4	477.6	523.1	512.0	363.1	236.3	179.7
87.5°	104.6	113.2	179.7	301.5	406.1	187.1	265.8	293.0	227.7	144.0	93.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P193282

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3868.3	3868.3	3868.3	3868.3	3868.3	3868.3	3868.3	3868.3	3868.3	3868.3
2.5°	3865.7	3887.9	3913.7	3927.4	3939.6	3954.3	3969.2	3969.2	3971.6	3972.7
5°	3838.8	3884.1	3924.8	3942.1	3945.8	3945.8	3942.1	3922.4	3905.2	3912.5
7.5°	3782.0	3848.5	3883.0	3876.8	3830.1	3775.9	3730.3	3674.9	3646.6	3641.7
10°	3700.8	3777.1	3783.3	3721.7	3606.1	3490.4	3394.3	3300.8	3256.6	3245.4
12.5°	3611.0	3681.2	3641.7	3515.0	3329.1	3160.6	3038.7	2943.9	2902.0	2891.0
15°	3538.4	3586.3	3486.7	3287.3	3053.5	2875.0	2774.1	2703.9	2674.3	2665.8
17.5°	3500.2	3510.1	3327.9	3058.3	2809.8	2660.9	2598.0	2564.9	2553.8	2547.6
20°	3518.7	3449.8	3176.5	2845.4	2610.4	2505.8	2491.0	2482.4	2479.9	2476.3
22.5°	3611.0	3431.3	3037.4	2643.6	2435.6	2390.0	2402.4	2401.2	2398.7	2396.3
25°	3775.9	3447.2	2902.0	2451.7	2289.2	2279.3	2301.4	2301.4	2291.6	2291.6
27.5°	3993.8	3480.6	2750.7	2269.5	2156.2	2157.5	2174.7	2169.8	2158.8	2151.4
30°	4259.6	3501.4	2573.5	2105.8	2031.9	2027.0	2031.9	2011.0	1977.8	1975.3
32.5°	4531.5	3475.6	2367.9	1960.5	1900.2	1889.2	1885.5	1856.0	1817.7	1806.7
35°	4777.7	3380.8	2158.8	1844.9	1774.7	1750.2	1767.4	1757.6	1723.0	1714.4
37.5°	4957.4	3204.8	1970.4	1742.6	1684.9	1678.8	1689.8	1693.5	1652.9	1644.3
40°	5078.1	2966.1	1809.3	1656.6	1667.7	1644.3	1607.3	1581.5	1569.2	1565.4
42.5°	5175.3	2717.5	1673.9	1616.0	1671.3	1603.6	1523.6	1481.8	1504.0	1513.8
45°	5287.3	2475.0	1560.5	1565.4	1652.9	1556.8	1465.8	1425.2	1433.8	1436.3
47.5°	5441.1	2179.6	1438.7	1484.3	1591.4	1524.9	1430.1	1372.3	1331.7	1313.2
50°	5653.9	1830.1	1311.9	1393.2	1531.0	1501.5	1374.7	1313.2	1238.1	1220.9
52.5°	5801.6	1504.0	1207.4	1316.9	1476.8	1454.7	1330.4	1250.5	1171.7	1156.9
55°	5721.7	1249.2	1116.3	1232.0	1405.5	1396.9	1293.5	1186.4	1125.0	1112.6
57.5°	5321.7	1088.0	1046.1	1151.9	1318.1	1347.6	1244.3	1132.3	1088.0	1079.4
60°	4558.7	987.0	1001.8	1097.8	1246.7	1298.4	1195.1	1102.8	1073.3	1067.0
62.5°	3537.2	919.3	968.6	1058.4	1191.4	1264.0	1168.0	1099.0	1088.0	1080.6
65°	2534.0	865.3	932.8	1019.1	1140.8	1232.0	1158.1	1094.1	1096.6	1090.4
67.5°	1721.8	817.3	889.8	974.7	1091.6	1203.7	1144.6	1076.9	1107.7	1100.2
70°	1204.9	770.4	839.3	918.1	1030.1	1164.2	1120.0	1051.1	1048.6	1019.1
72.5°	940.2	708.9	770.4	839.3	951.3	1108.9	1070.7	993.1	952.6	921.8
73°	897.2	694.2	753.3	822.1	934.1	1095.4	1057.2	977.3	931.7	903.3
75°	742.1	630.1	684.3	745.8	860.3	1031.4	990.8	904.5	846.8	829.5
77.5°	583.3	539.0	590.8	646.2	758.1	937.8	892.3	809.8	777.8	763.0
80°	432.0	446.8	492.3	541.5	657.2	838.1	797.5	715.1	857.8	822.1
82.5°	304.0	338.4	380.3	424.6	551.3	740.9	691.7	606.7	627.7	521.8
85°	179.7	221.6	260.9	299.1	397.4	614.1	571.1	483.7	396.3	377.8
87.5°	104.6	123.0	134.2	173.5	273.2	462.7	402.4	358.2	205.5	139.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)