

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: P268640

Luminaire Tested: **GAN-AF-06-LED-U-T4W-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-06-LED-U-T4W-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33693.3 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 382
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

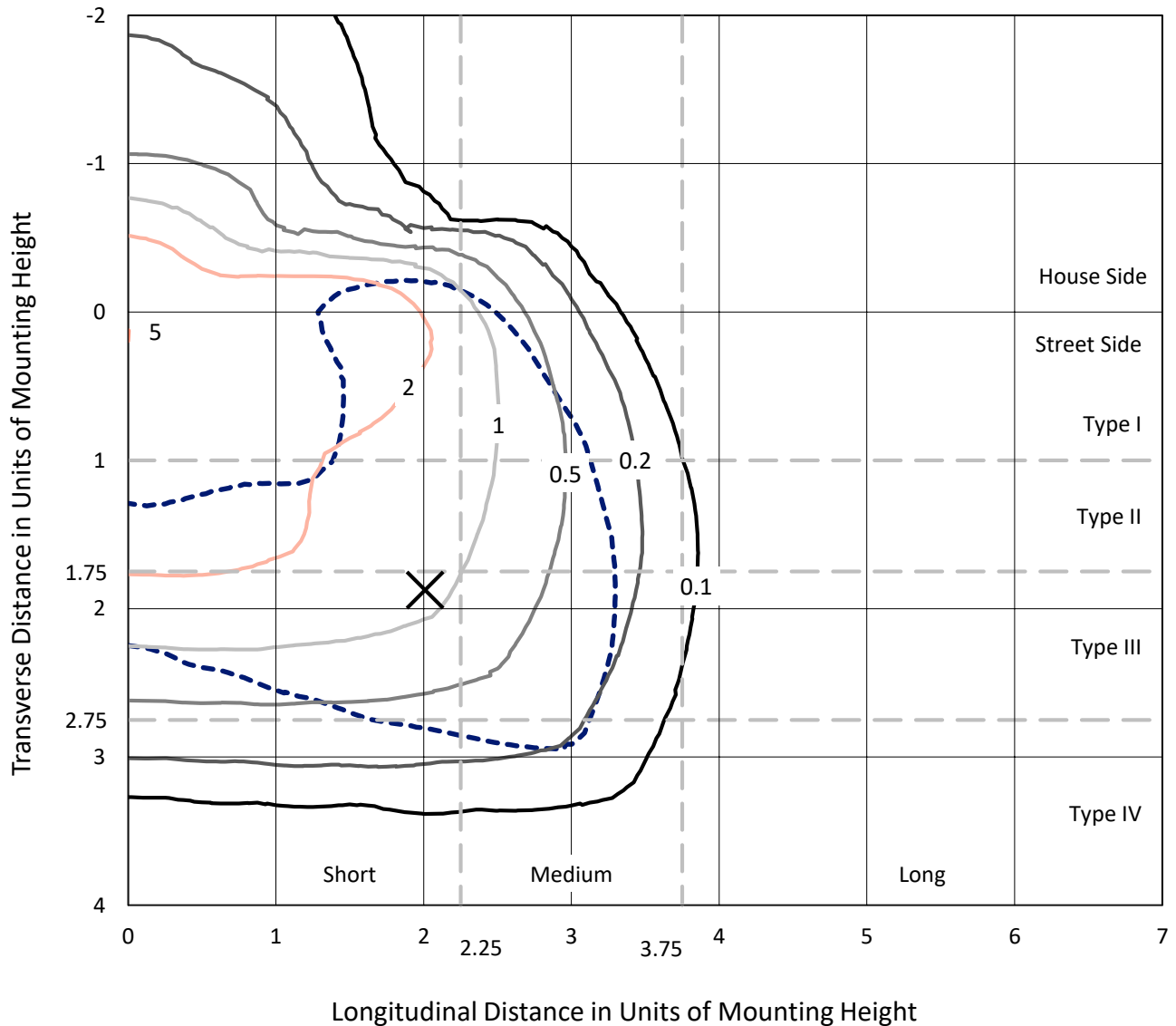


REPORT NUMBER: P268640

CATALOG NUMBER: GAN-AF-06-LED-U-T4W-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

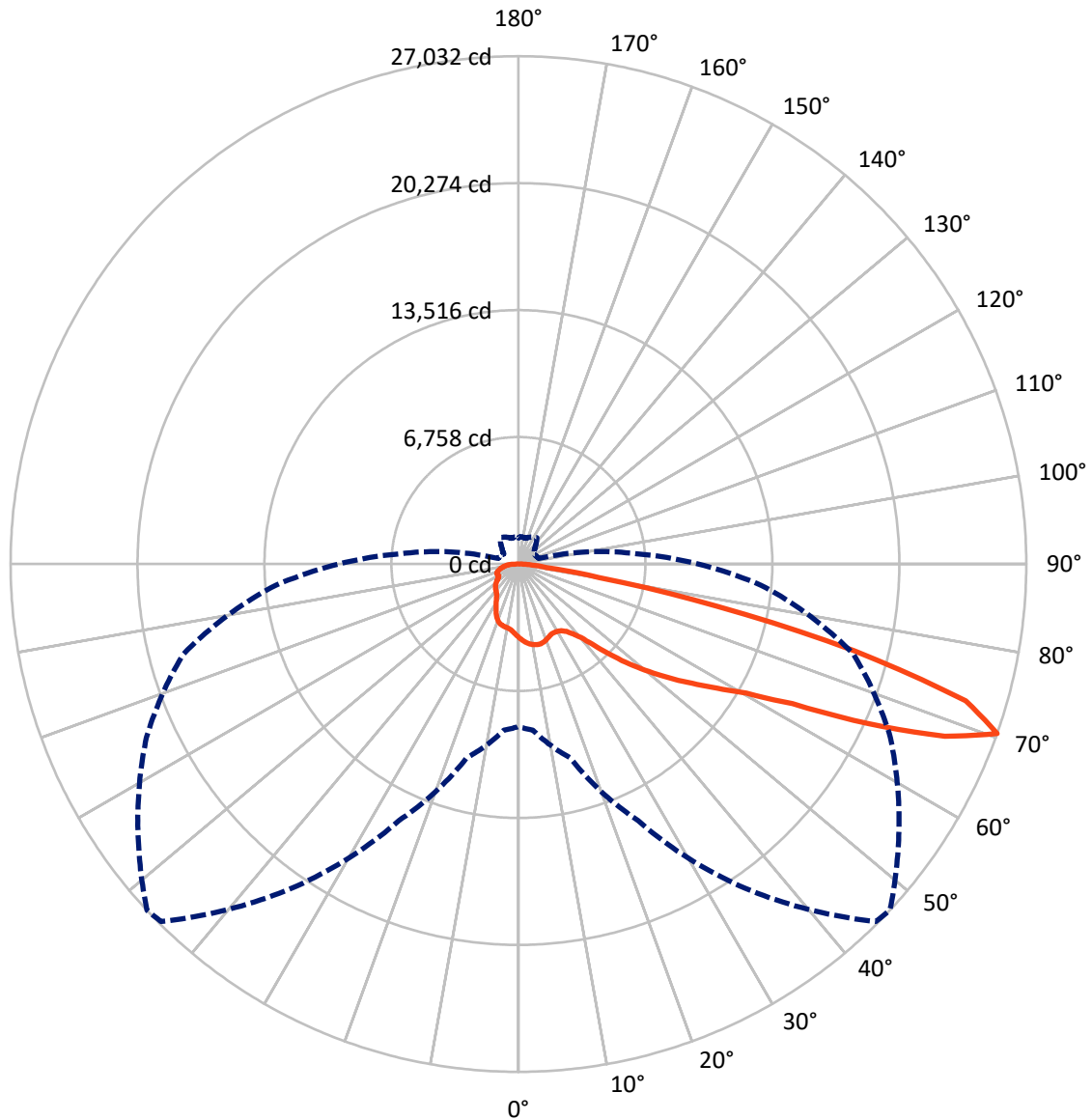
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P268640
CATALOG NUMBER: GAN-AF-06-LED-U-T4W-7027-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P268640

CATALOG NUMBER: GAN-AF-06-LED-U-T4W-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7029.1	0.0	7029.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	26664.2	0.0	26664.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	33693.3	0.0	33693.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.6	1.1
10°-20°	1099.0	3.3
20°-30°	1622.9	4.8
30°-40°	2358.8	7.0
40°-50°	4245.0	12.6
50°-60°	7354.1	21.8
60°-70°	10496.4	31.2
70°-80°	5388.3	16.0
80°-90°	754.4	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°	33693.3	100.0
0°-180°	33693.3	100.0

Coefficient of Utilization



REPORT NUMBER: P268640

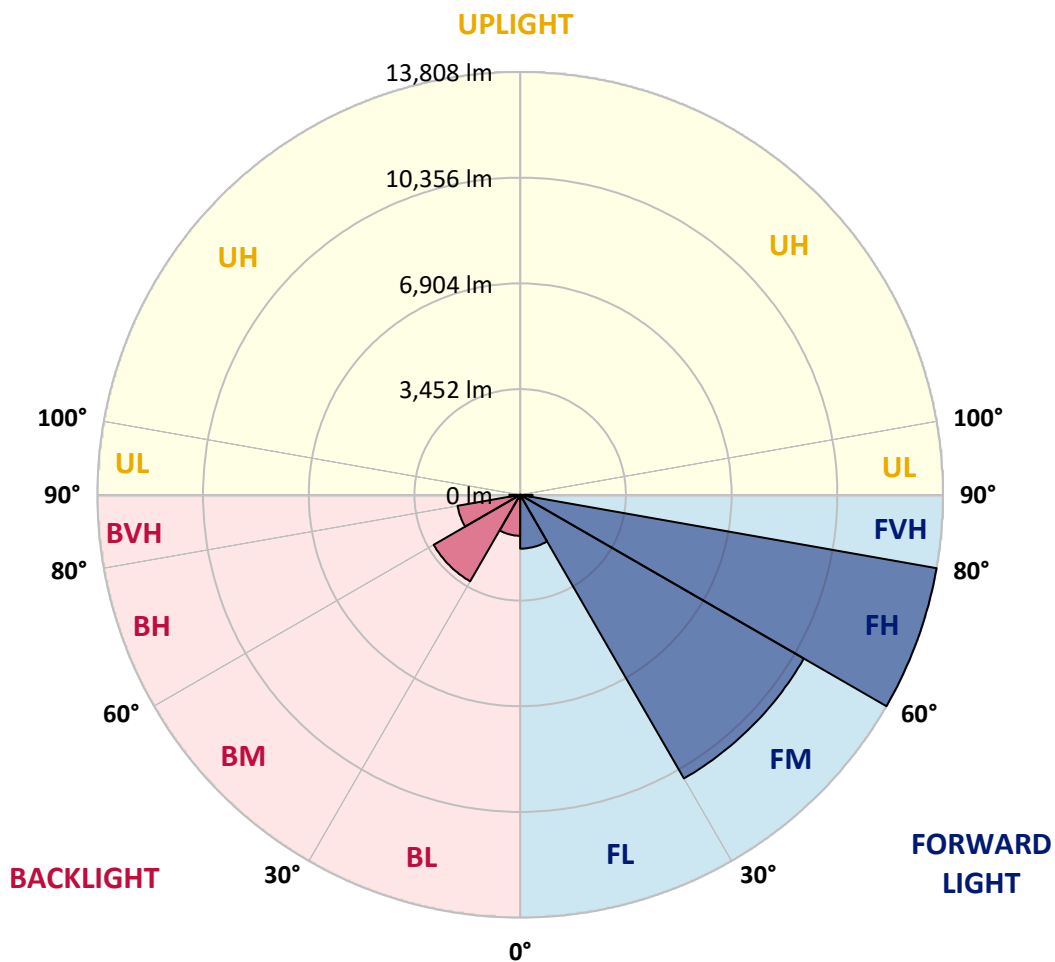
CATALOG NUMBER: GAN-AF-06-LED-U-T4W-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1758.0	5.2			
FM	(30°-60°)	10695.2	31.7			
FH	(60°-80°)	13808.4	41.0			G5
FVH	(80°-90°)	402.5	1.2			G3/500
BL	(0°-30°)	1338.4	4.0	B3/2500		
BM	(30°-60°)	3262.7	9.7	B3/5000		
BH	(60°-80°)	2076.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	351.8	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P268640

CATALOG NUMBER: GAN-AF-06-LED-U-T4W-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5
2.5°	4138.9	4130.8	4127.5	4121.0	4112.7	4071.7	4063.6	4034.1	3993.1	3950.4	3906.2
5°	4411.0	4409.4	4391.4	4358.5	4306.1	4215.9	4194.6	4122.5	4025.8	3932.4	3838.9
7.5°	4650.3	4635.7	4601.2	4535.6	4443.8	4320.8	4291.5	4191.4	4058.6	3930.8	3804.5
10°	4825.8	4817.6	4742.2	4652.1	4532.4	4396.3	4361.9	4250.4	4104.5	3942.2	3784.9
12.5°	4925.8	4909.3	4822.6	4714.3	4571.7	4439.0	4404.5	4291.5	4127.5	3942.2	3757.0
15°	4919.2	4907.7	4820.8	4702.8	4558.5	4442.2	4411.0	4298.0	4122.5	3925.9	3721.0
17.5°	4788.1	4792.9	4719.2	4602.8	4484.8	4396.3	4368.5	4263.5	4089.8	3893.1	3678.3
20°	4558.5	4581.5	4532.4	4429.2	4363.5	4302.9	4284.8	4196.3	4039.0	3845.6	3632.4
22.5°	4329.1	4350.4	4330.8	4243.9	4234.0	4198.0	4188.2	4124.2	3994.8	3816.0	3604.5
25°	4160.3	4180.0	4176.7	4101.2	4130.8	4129.1	4121.0	4089.8	3984.9	3816.0	3609.5
27.5°	4114.3	4121.0	4114.3	4045.5	4086.5	4119.3	4112.7	4107.8	4014.3	3863.6	3671.8
30°	4271.7	4261.9	4211.1	4071.7	4109.4	4155.4	4148.8	4152.1	4102.9	3988.1	3811.1
32.5°	4899.5	4855.2	4694.6	4302.9	4202.9	4227.5	4230.7	4284.8	4293.0	4180.0	4027.6
35°	5838.9	5789.7	5581.4	4922.5	4493.1	4407.8	4407.8	4489.8	4539.0	4455.4	4363.5
37.5°	6833.8	6779.7	6668.2	5781.4	5102.8	4720.9	4712.7	4770.0	4840.5	4860.2	4883.1
40°	7964.8	7907.5	7938.6	6745.3	5953.5	5263.4	5147.1	5106.1	5296.2	5422.4	5606.1
42.5°	9202.3	9176.1	9187.7	7818.9	6922.2	6074.9	5909.3	5697.8	5927.2	6152.0	6537.1
45°	10348.3	10371.1	10359.7	8968.0	8000.8	7064.9	6889.6	6479.7	6704.3	7089.6	7717.2
47.5°	11351.4	11256.3	11403.9	10223.6	9209.0	8173.0	7956.6	7407.6	7635.4	8110.6	9173.0
50°	12569.4	12556.1	12339.8	11898.9	10669.4	9286.0	9002.5	8366.5	8720.4	9381.1	11007.1
52.5°	13849.4	13611.8	13413.5	13202.0	12218.6	10426.8	10079.4	9322.2	9995.8	10826.8	13243.1
55°	14111.8	14005.2	14251.2	14606.8	13711.8	11612.0	11207.2	10520.3	11431.7	12479.2	15821.5
57.5°	14672.3	14670.8	15178.9	15813.3	15249.4	12869.3	12461.1	11967.7	13046.4	14372.4	18559.0
60°	15051.0	15157.6	16101.8	17332.7	16759.0	14321.6	13946.2	13638.1	14882.2	16488.6	21109.5
62.5°	15249.4	15393.6	16682.1	17949.2	18893.3	16739.5	16364.1	15919.9	17311.4	18809.7	22601.1
65°	14424.9	14708.5	16591.9	18481.9	20761.9	20658.7	20489.9	19709.6	20348.9	20643.9	22061.8
67.5°	12143.1	12433.3	14626.6	17985.1	22096.2	24438.7	24474.7	23142.0	22217.6	20801.3	18549.1
70°	8651.7	8879.4	10694.1	15078.9	21079.9	26909.0	27031.8	24724.0	21845.5	18447.5	12959.5
72.5°	4107.8	4247.1	5965.0	9813.9	16728.0	24655.2	24892.8	22704.4	18575.3	13657.7	7069.8
75°	1509.7	1552.4	2016.2	4175.1	9702.4	18182.0	18462.1	16275.5	12313.5	6799.5	2693.2
77.5°	904.9	932.7	1131.1	1762.1	3816.0	10392.5	10807.1	8851.5	5381.4	2531.0	1324.6
80°	632.8	652.3	811.3	1096.7	1803.1	3960.3	4329.1	3612.8	2144.1	1601.5	963.8
82.5°	427.9	437.7	570.5	740.9	1198.2	1414.7	1526.1	1606.3	1445.7	1191.7	611.4
85°	280.4	290.2	386.8	488.5	762.2	731.1	747.5	945.8	1055.7	809.7	339.3
87.5°	160.6	167.3	232.8	260.6	373.8	309.8	313.1	498.3	675.3	545.8	206.5
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: P268640

CATALOG NUMBER: GAN-AF-06-LED-U-T4W-7027-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5
2.5°	3894.7	3873.4	3825.9	3796.3	3768.5	3761.9	3750.5	3748.8	3747.2	3747.2	3742.2
5°	3807.8	3771.8	3698.1	3657.0	3622.7	3619.4	3617.7	3625.9	3629.2	3632.4	3627.5
7.5°	3752.1	3703.0	3611.1	3552.1	3511.1	3501.4	3517.8	3555.4	3579.9	3589.8	3584.9
10°	3717.6	3657.0	3550.6	3486.5	3452.1	3447.2	3468.5	3512.8	3563.5	3583.2	3581.6
12.5°	3678.3	3609.5	3496.5	3429.2	3409.4	3419.4	3447.2	3488.2	3540.7	3571.8	3573.5
15°	3639.0	3558.6	3442.2	3383.2	3375.1	3388.1	3414.5	3445.5	3486.5	3517.8	3520.9
17.5°	3591.5	3507.9	3391.6	3330.8	3324.3	3330.8	3332.5	3348.9	3375.1	3404.5	3412.8
20°	3540.7	3455.4	3334.1	3273.5	3244.0	3217.6	3188.3	3191.5	3199.8	3229.1	3235.8
22.5°	3504.6	3419.4	3289.9	3206.3	3127.5	3048.8	2989.9	2981.7	2985.0	3009.5	3017.8
25°	3507.9	3417.7	3278.4	3134.1	2962.0	2835.8	2757.1	2744.1	2742.3	2760.4	2771.9
27.5°	3571.8	3481.7	3321.0	3060.3	2781.7	2594.8	2511.2	2501.4	2488.2	2493.2	2506.4
30°	3714.4	3630.8	3424.2	2985.0	2586.6	2358.8	2272.0	2262.1	2244.1	2235.8	2245.8
32.5°	3947.2	3878.3	3575.1	2912.8	2391.6	2157.2	2068.6	2047.3	2035.9	2026.0	2034.2
35°	4334.1	4304.5	3776.7	2834.2	2219.4	2001.5	1921.1	1888.3	1872.0	1889.9	1903.1
37.5°	4940.5	4956.8	4040.5	2711.3	2086.8	1898.2	1830.9	1793.2	1768.8	1783.5	1798.1
40°	5799.5	5811.0	4332.3	2537.4	1972.0	1837.6	1765.3	1730.9	1696.5	1670.4	1668.7
42.5°	6927.2	6810.8	4619.3	2349.0	1839.2	1799.8	1719.5	1676.9	1624.5	1552.4	1537.5
45°	8264.8	7856.7	4837.3	2132.5	1690.0	1753.9	1668.7	1609.8	1527.7	1449.1	1440.8
47.5°	9805.5	8979.5	4943.8	1908.0	1550.7	1686.7	1606.3	1512.9	1409.7	1370.4	1365.5
50°	11687.4	10312.2	4994.7	1690.0	1429.4	1598.3	1516.2	1406.4	1319.5	1311.3	1306.5
52.5°	13829.9	11915.3	5011.0	1511.3	1329.4	1483.6	1442.5	1335.9	1267.1	1273.6	1273.6
55°	16072.3	13570.9	4788.1	1381.9	1237.5	1365.5	1393.4	1308.1	1250.7	1276.9	1286.7
57.5°	18131.1	15037.9	4086.5	1281.8	1150.6	1275.4	1375.2	1334.3	1294.9	1401.5	1408.1
60°	19711.2	15905.1	3052.3	1191.7	1086.8	1244.2	1422.8	1434.4	1444.1	1698.2	1732.7
62.5°	20042.4	15616.6	2098.3	1121.3	1057.2	1270.4	1509.7	1511.3	1499.9	1676.9	1698.2
65°	18522.8	13792.1	1526.1	1081.9	1032.7	1318.0	1583.4	1549.0	1473.6	1608.1	1568.7
67.5°	14710.0	10390.9	1270.4	1052.4	996.6	1314.6	1662.1	1583.4	1458.8	1575.3	1511.3
70°	9548.3	6283.0	1131.1	1027.8	954.0	1252.3	1708.0	1580.2	1416.3	1465.5	1390.0
72.5°	4658.6	2809.5	1037.6	991.6	909.8	1165.6	1706.4	1550.7	1372.0	1368.7	1327.8
75°	1822.8	1286.7	952.4	937.7	834.3	1067.0	1660.4	1508.1	1319.5	1267.1	1252.3
77.5°	1067.0	918.0	844.1	857.3	744.2	968.7	1593.4	1434.4	1247.4	1185.1	1168.8
80°	776.9	686.8	719.6	740.9	636.0	870.4	1503.1	1344.1	1167.1	1198.2	1175.3
82.5°	498.3	442.5	583.5	604.9	529.5	770.4	1404.8	1249.1	1054.0	957.2	934.3
85°	254.1	280.4	434.4	460.7	408.2	632.8	1285.1	1122.8	926.2	796.6	809.7
87.5°	142.7	191.8	277.0	309.8	288.4	486.8	1042.6	926.2	755.7	614.7	540.9
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)