

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: P319009

Luminaire Tested: **GAN-SA5C-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31969 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

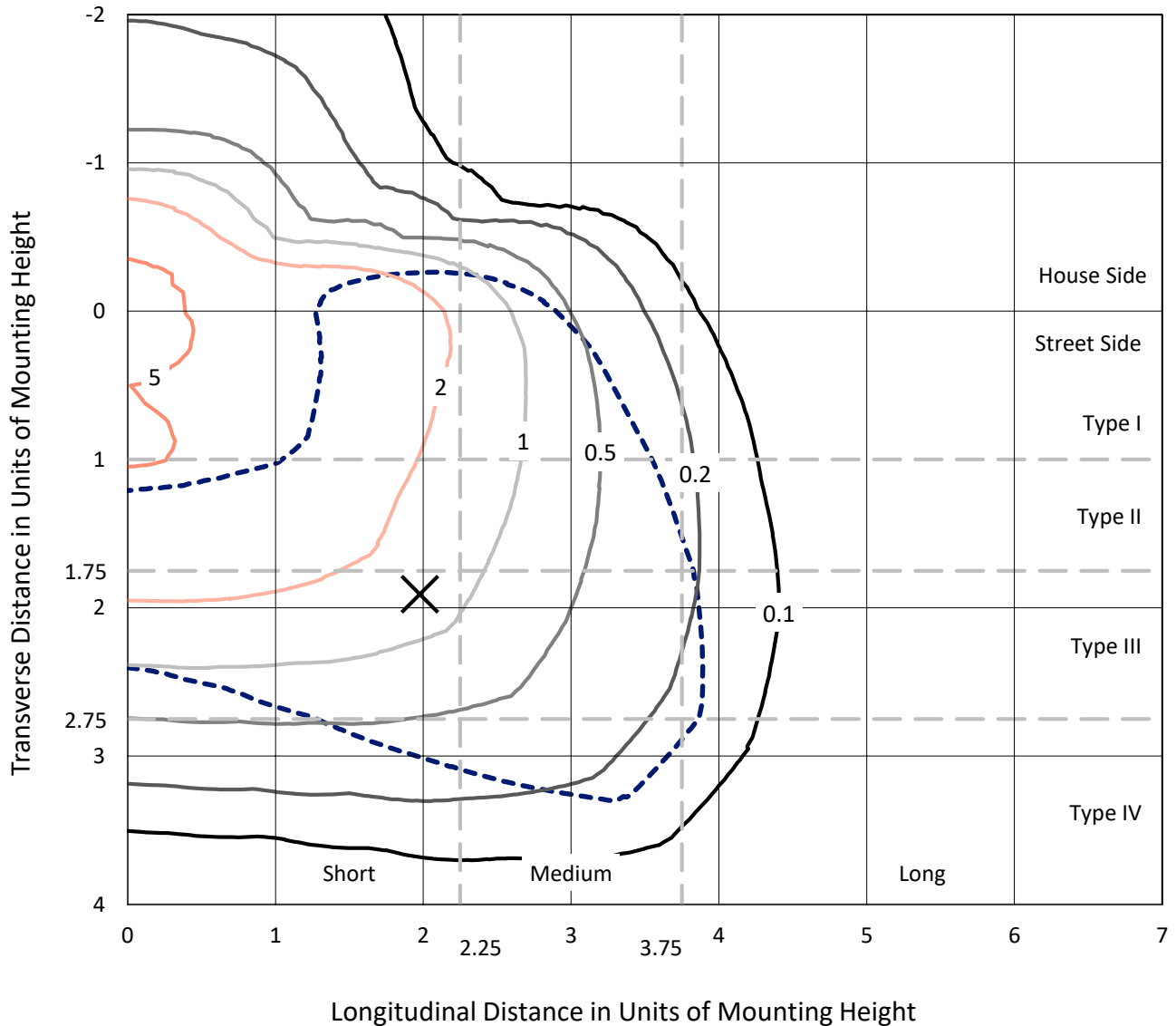
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

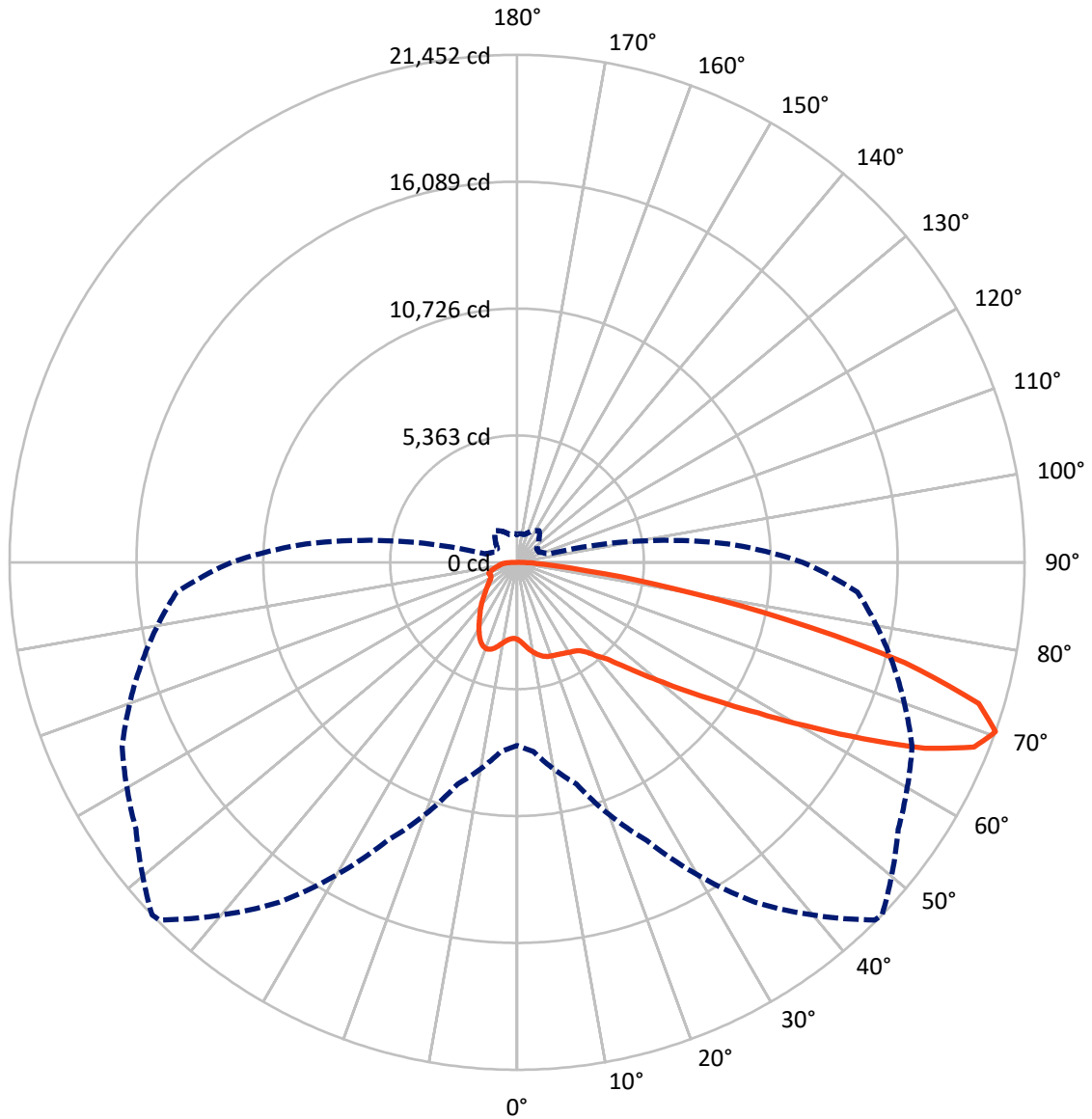
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7327.2	0.0	7327.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	24641.8	0.0	24641.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	31969.0	0.0	31969.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.0	1.0
10°-20°	1106.2	3.5
20°-30°	1844.5	5.8
30°-40°	2617.4	8.2
40°-50°	3850.1	12.0
50°-60°	6520.2	20.4
60°-70°	9255.3	29.0
70°-80°	5622.7	17.6
80°-90°	820.6	2.6
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°	31969.0	100.0
0°-180°	31969.0	100.0

Coefficient of Utilization

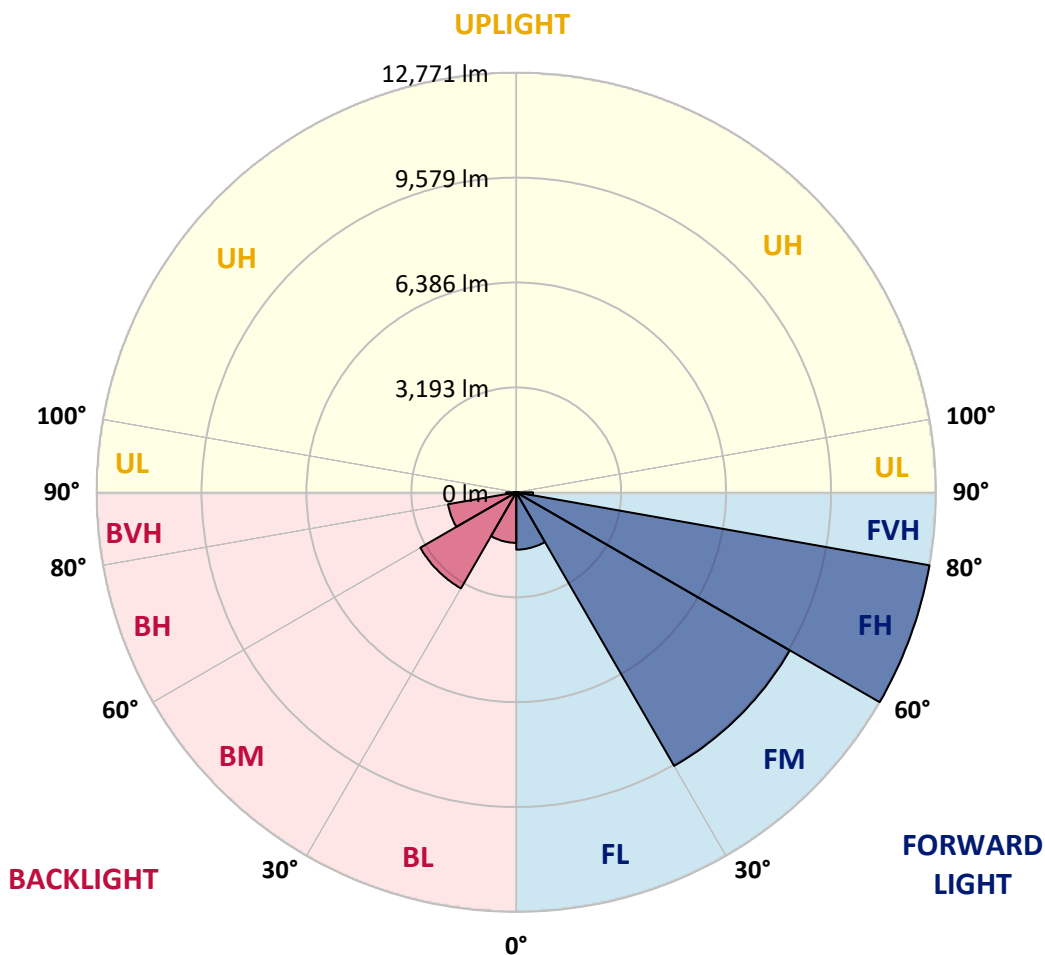


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1744.4	5.5			
FM (30°-60°)	9614.8	30.1			
FH (60°-80°)	12771.4	39.9			G5
FVH (80°-90°)	511.1	1.6			G4/750
BL (0°-30°)	1538.4	4.8	B3/2500		
BM (30°-60°)	3372.9	10.6	B3/5000		
BH (60°-80°)	2106.5	6.6	B3/2500		G3/2500
BVH (80°-90°)	309.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3257.0	3257.0	3257.0	3257.0	3257.0	3257.0	3257.0	3257.0	3257.0	3257.0	3257.0
2.5°	3420.0	3422.2	3426.6	3415.7	3385.0	3376.3	3373.0	3341.3	3320.5	3289.8	3263.6
5°	3693.5	3695.7	3689.2	3658.5	3590.7	3540.4	3536.0	3463.8	3398.1	3328.1	3275.6
7.5°	3979.1	3982.4	3961.6	3903.6	3808.4	3720.9	3715.4	3617.0	3517.4	3411.3	3332.5
10°	4231.8	4218.7	4184.8	4103.8	3991.1	3883.9	3879.5	3776.7	3661.8	3533.8	3428.8
12.5°	4400.3	4389.4	4345.6	4247.1	4123.5	4025.0	4016.3	3921.1	3809.5	3669.5	3543.7
15°	4493.3	4501.0	4441.9	4330.3	4209.9	4126.8	4119.1	4051.3	3951.7	3810.6	3666.2
17.5°	4505.3	4511.9	4455.0	4344.5	4246.0	4189.2	4185.9	4141.0	4068.8	3933.1	3782.2
20°	4435.3	4439.7	4392.6	4301.8	4237.3	4219.8	4218.7	4199.0	4145.4	4025.0	3878.4
22.5°	4333.6	4336.9	4302.9	4237.3	4215.4	4242.8	4250.4	4242.8	4204.5	4091.8	3953.9
25°	4308.4	4306.2	4271.2	4204.5	4223.1	4281.1	4290.9	4294.2	4267.9	4169.5	4050.2
27.5°	4429.8	4422.2	4355.5	4248.2	4260.3	4330.3	4343.4	4375.1	4358.7	4272.3	4159.6
30°	4781.0	4767.9	4631.2	4414.5	4355.5	4391.6	4408.0	4458.3	4461.6	4389.4	4305.1
32.5°	5374.0	5357.6	5112.5	4725.2	4516.3	4453.9	4469.2	4544.7	4585.2	4529.4	4438.6
35°	6123.5	6104.9	5783.2	5253.7	4785.4	4573.2	4584.1	4644.3	4725.2	4646.5	4526.1
37.5°	6904.6	6859.8	6550.1	5875.1	5213.2	4828.1	4828.1	4835.7	4874.0	4709.9	4629.0
40°	7681.4	7636.5	7356.5	6605.9	5766.8	5229.6	5204.4	5034.9	5004.2	4863.1	4835.7
42.5°	8403.5	8390.3	8225.1	7431.9	6416.7	5624.6	5589.6	5301.8	5308.4	5220.9	5221.9
45°	9171.5	9171.5	9036.9	8265.6	7173.7	6259.1	6224.1	5800.7	5866.3	5825.9	5923.2
47.5°	9798.4	9818.1	9799.5	9134.3	8054.5	7065.4	7002.0	6492.1	6676.0	6814.9	7098.3
50°	10438.4	10469.1	10472.3	10087.2	9119.0	8023.8	7951.6	7410.1	7820.3	8218.6	8775.5
52.5°	11367.3	11436.2	11161.6	11038.0	10423.1	9161.7	9090.5	8590.6	9275.4	9834.5	10794.0
55°	12228.3	12168.1	11972.3	12048.9	11819.1	10457.0	10403.4	9964.7	10896.8	11623.3	12869.4
57.5°	12694.4	12690.0	12886.9	13215.1	13324.6	12054.3	12009.5	11582.8	12725.0	13270.9	14817.9
60°	13241.4	13249.1	13737.0	14482.1	14932.8	14043.3	14023.7	13699.8	14500.7	14809.2	16346.3
62.5°	13318.0	13455.8	14296.1	15578.3	16438.2	16367.1	16410.9	15606.8	16089.2	16036.7	17487.4
65°	12437.3	12618.9	14139.6	15909.8	17934.9	18908.6	18949.1	17524.6	17341.9	17085.9	17895.5
67.5°	10632.1	10901.2	12553.2	15188.8	18428.3	20787.1	20844.0	19011.5	18381.3	17441.5	16913.1
70°	7737.2	8035.9	9698.8	12972.3	17548.7	21387.8	21452.3	19669.0	18420.7	16429.5	14438.3
72.5°	4673.8	4908.0	6278.8	9550.0	14811.4	20293.7	20408.6	18835.3	16817.9	13916.4	10661.6
75°	2052.5	2205.6	3036.0	5503.1	10603.6	16790.5	16933.9	16122.1	13664.8	10113.5	6301.8
77.5°	874.2	917.9	1245.0	2390.5	5994.4	11473.4	11670.3	11779.7	9271.1	5503.1	2662.9
80°	544.8	562.3	704.6	1082.0	2805.2	6444.0	6656.3	6930.9	4603.8	2022.9	930.0
82.5°	331.5	351.2	468.3	654.2	1460.6	2921.1	3022.9	3216.5	1786.6	874.2	481.4
85°	199.1	213.3	286.6	413.6	831.5	1148.8	1147.7	1269.1	841.3	562.3	253.8
87.5°	95.2	106.1	153.2	214.4	419.0	431.1	403.7	457.3	510.9	368.7	128.0
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°	3257.0	3257.0	3257.0	3257.0	3257.0	3257.0	3257.0	3257.0	3257.0	3257.0	3257.0
2.5°	3254.8	3250.5	3236.2	3225.3	3223.1	3216.5	3211.1	3214.3	3218.7	3219.8	3219.8
5°	3253.7	3241.7	3223.1	3215.4	3225.3	3238.4	3254.8	3276.7	3289.8	3299.7	3306.2
7.5°	3306.2	3283.3	3262.5	3258.1	3277.8	3312.8	3350.0	3396.0	3427.7	3449.6	3453.9
10°	3393.8	3365.3	3344.5	3348.9	3383.9	3434.3	3486.8	3545.8	3594.0	3623.5	3625.7
12.5°	3494.4	3467.1	3447.4	3466.0	3524.0	3585.2	3639.9	3691.4	3735.1	3764.7	3764.7
15°	3610.4	3590.7	3567.7	3610.4	3689.2	3743.9	3766.8	3792.0	3816.1	3838.0	3833.6
17.5°	3722.0	3703.4	3691.4	3741.7	3823.7	3848.9	3833.6	3815.0	3815.0	3827.0	3829.2
20°	3818.3	3801.9	3809.5	3858.7	3901.4	3875.2	3818.3	3759.2	3735.1	3741.7	3748.2
22.5°	3902.5	3894.9	3917.8	3940.8	3910.2	3818.3	3713.2	3633.4	3603.8	3601.6	3603.8
25°	4001.0	3999.9	4028.3	3986.8	3851.1	3681.5	3540.4	3462.7	3446.3	3459.4	3481.3
27.5°	4123.5	4135.5	4149.8	3997.7	3730.7	3474.7	3331.4	3277.8	3294.2	3325.9	3346.7
30°	4280.0	4312.8	4282.1	3970.3	3557.9	3238.4	3101.7	3086.3	3131.2	3176.1	3197.9
32.5°	4432.0	4483.5	4409.1	3899.2	3334.7	2987.9	2881.8	2877.4	2932.1	2975.8	3006.5
35°	4554.6	4656.3	4504.2	3758.1	3076.5	2757.0	2679.4	2649.8	2669.5	2720.9	2755.9
37.5°	4714.3	4883.9	4569.9	3542.6	2796.4	2566.7	2475.9	2408.0	2390.5	2411.3	2428.8
40°	5006.4	5230.7	4600.5	3241.7	2522.9	2376.3	2284.4	2184.8	2115.9	2065.6	2066.7
42.5°	5483.4	5682.5	4580.8	2876.3	2270.2	2190.3	2086.4	1971.5	1859.9	1746.1	1737.4
45°	6258.0	6354.3	4521.7	2489.0	2048.1	1995.6	1898.2	1783.3	1634.5	1505.4	1493.4
47.5°	7497.6	7284.2	4429.8	2150.9	1852.2	1830.4	1740.6	1608.3	1450.7	1346.8	1338.0
50°	9187.9	8626.7	4385.0	1881.8	1679.4	1685.9	1612.6	1472.6	1323.8	1247.2	1238.5
52.5°	11209.7	10190.1	4471.4	1673.9	1540.4	1563.4	1508.7	1377.4	1252.7	1192.5	1183.8
55°	13307.0	11809.3	4564.4	1522.9	1409.1	1454.0	1435.4	1327.1	1214.4	1158.6	1151.0
57.5°	15102.4	13018.2	4378.4	1400.4	1292.1	1362.1	1378.5	1295.4	1194.7	1144.4	1135.6
60°	16232.6	13505.1	3890.5	1285.5	1199.1	1288.8	1345.7	1286.6	1202.4	1198.0	1191.4
62.5°	16768.7	13462.4	3158.6	1194.7	1141.1	1257.1	1369.8	1335.8	1289.9	1329.3	1332.6
65°	16528.0	12819.1	2352.2	1134.5	1099.5	1269.1	1442.0	1428.8	1315.1	1354.4	1359.9
67.5°	14943.8	11284.1	1741.7	1082.0	1053.6	1303.0	1573.3	1459.5	1265.8	1294.3	1276.8
70°	12078.4	8946.1	1343.5	1022.9	1006.5	1298.6	1632.3	1440.9	1212.2	1218.8	1171.7
72.5°	8329.1	6100.5	1093.0	968.2	938.7	1183.8	1590.8	1394.9	1167.4	1117.0	1054.7
75°	4529.4	3274.5	928.9	911.4	819.5	1039.4	1514.2	1362.1	1126.9	1060.1	1025.1
77.5°	1782.2	1358.8	806.3	833.7	716.6	917.9	1428.8	1299.7	1071.1	983.6	966.1
80°	727.5	693.6	668.5	721.0	616.0	803.0	1326.0	1226.4	1004.3	912.4	877.4
82.5°	412.5	431.1	519.7	568.9	500.0	739.6	1276.8	1167.4	924.5	817.3	775.7
85°	211.2	252.7	362.1	408.1	367.6	629.1	1176.1	1021.9	741.8	625.8	629.1
87.5°	101.7	141.1	228.7	256.0	238.5	455.1	878.5	740.7	577.7	457.3	443.1
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)