

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: P193297

Luminaire Tested: **GAN-AF-09-LED-U-T4W-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193297
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-09-LED-U-T4W-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33672.6 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 290
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

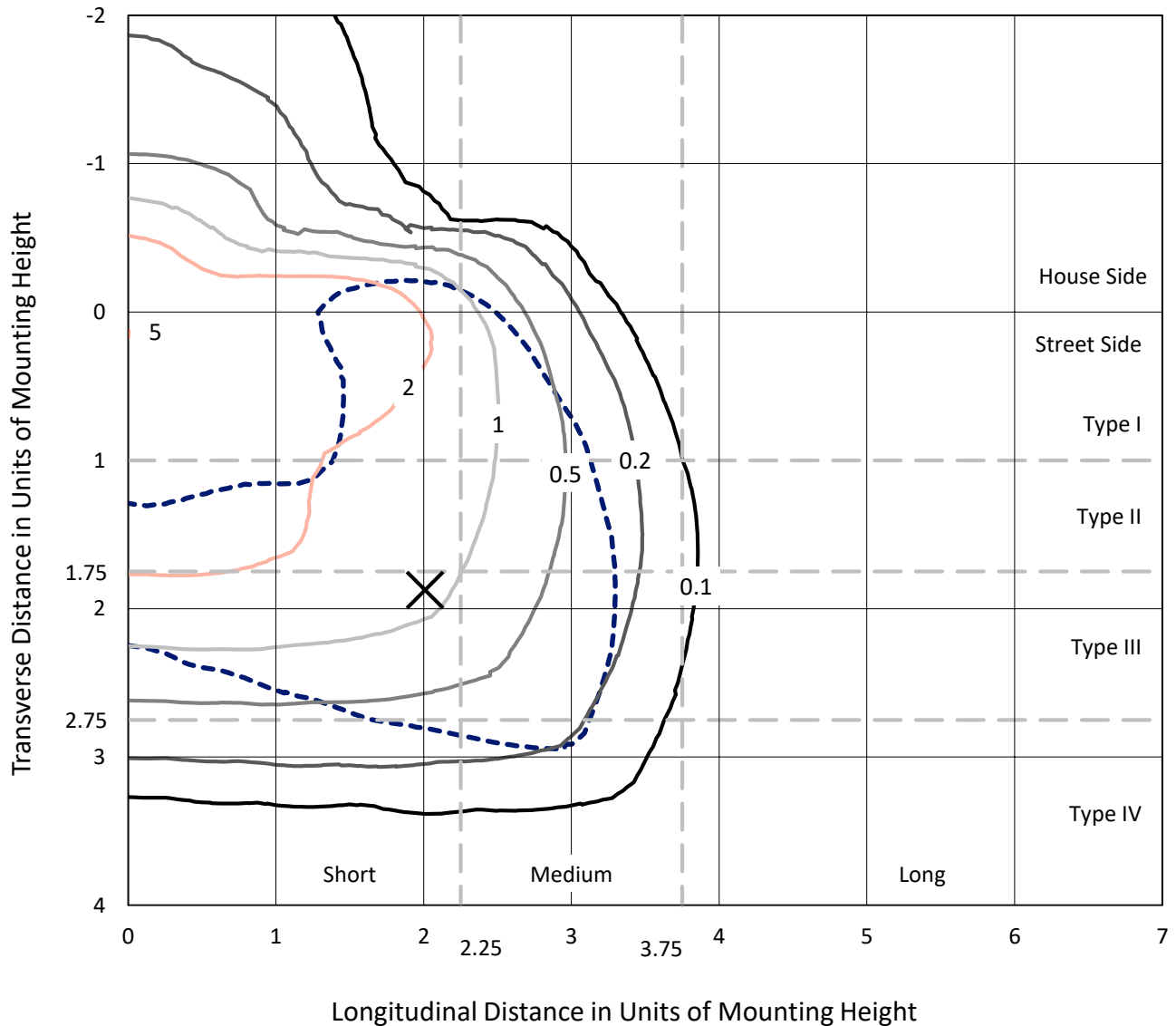


REPORT NUMBER: P193297

CATALOG NUMBER: GAN-AF-09-LED-U-T4W-7030-600

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

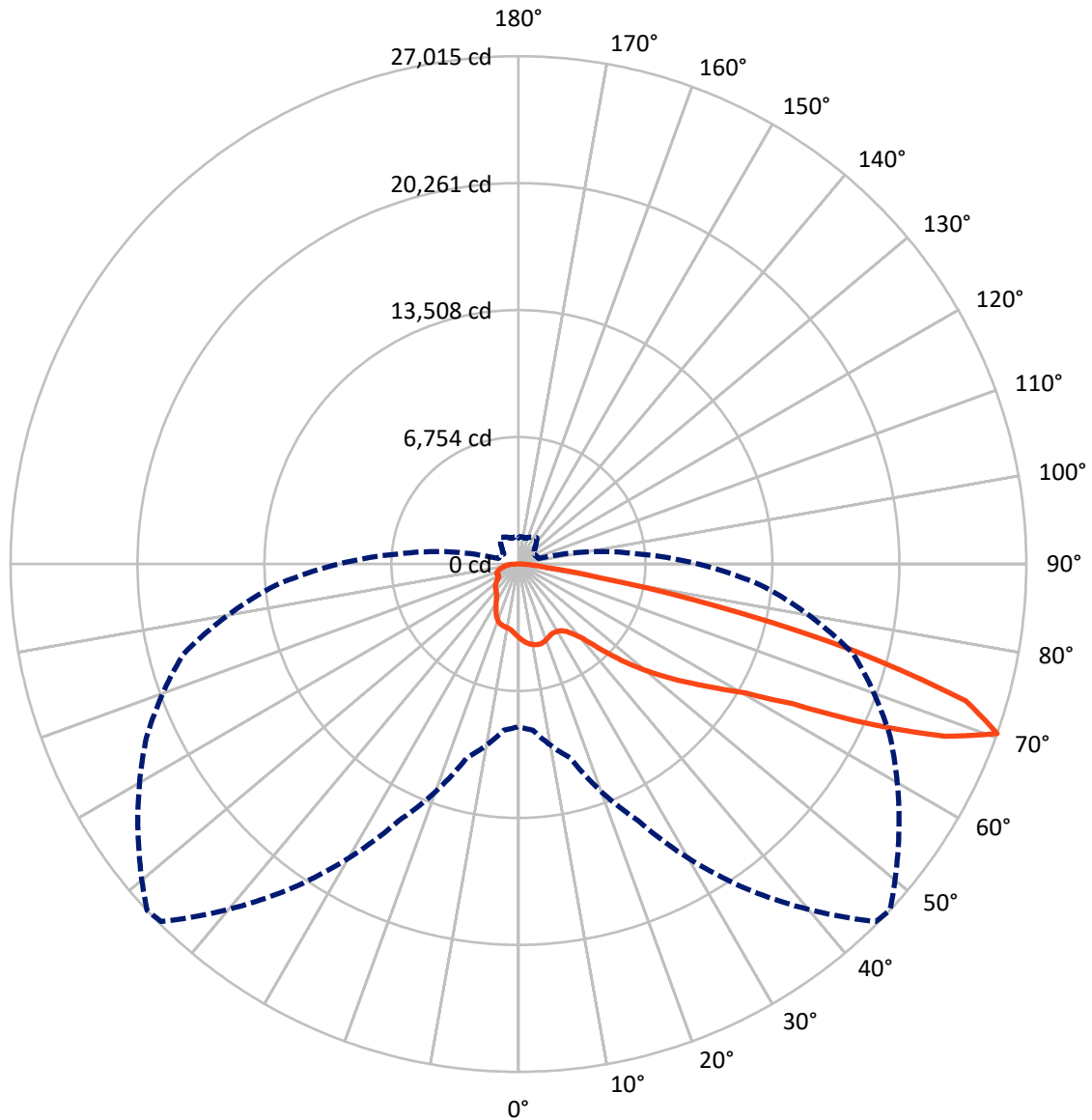


Based on 30 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P193297

CATALOG NUMBER: GAN-AF-09-LED-U-T4W-7030-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193297

CATALOG NUMBER: GAN-AF-09-LED-U-T4W-7030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7024.8	0.0	7024.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	26647.8	0.0	26647.8
	% Fixture	79.1	0.0	79.1
Total	Lumens	33672.6	0.0	33672.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.4	1.1
10°-20°	1098.3	3.3
20°-30°	1621.9	4.8
30°-40°	2357.4	7.0
40°-50°	4242.4	12.6
50°-60°	7349.5	21.8
60°-70°	10489.9	31.2
70°-80°	5384.9	16.0
80°-90°	753.9	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°	33672.6	100.0
0°-180°	33672.6	100.0

Coefficient of Utilization



REPORT NUMBER: P193297

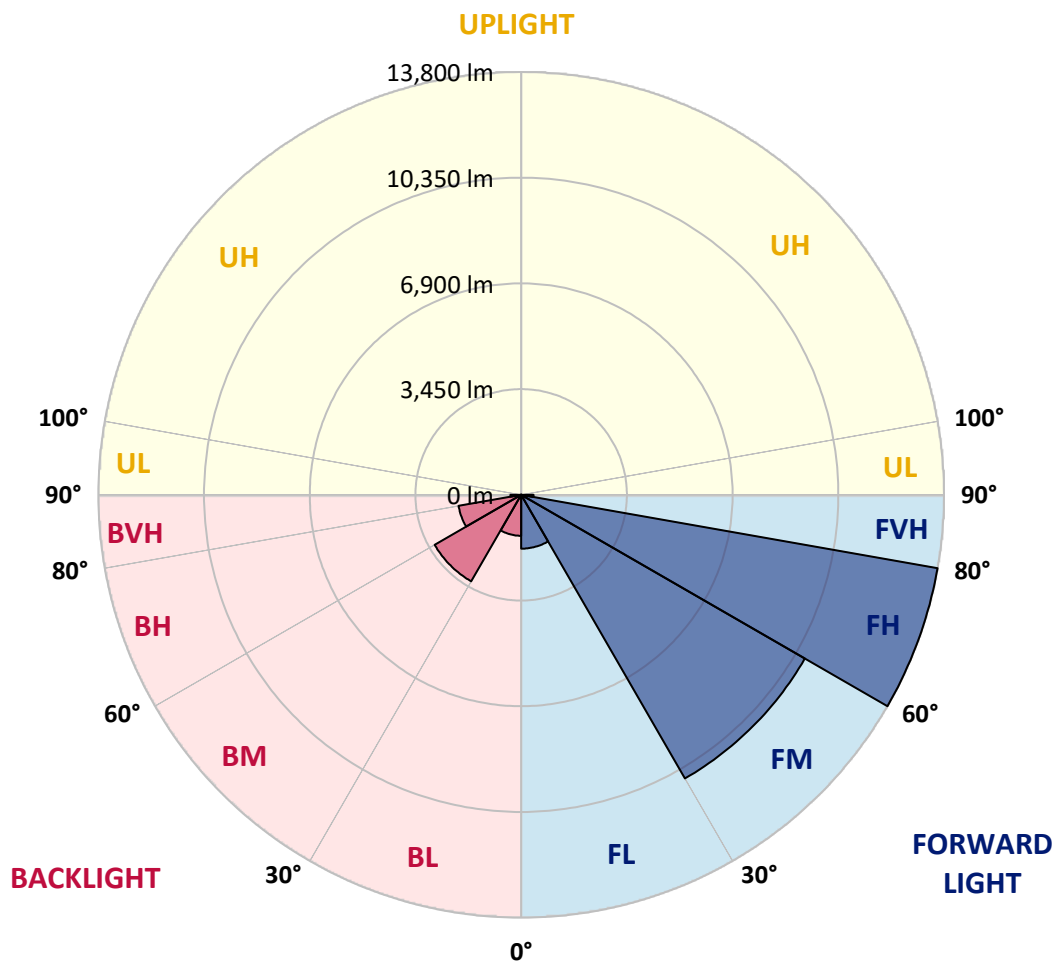
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1757.0	5.2			
FM	(30°-60°)	10688.6	31.7			
FH	(60°-80°)	13799.9	41.0			G5
FVH	(80°-90°)	402.3	1.2			G3/500
BL	(0°-30°)	1337.6	4.0	B3/2500		
BM	(30°-60°)	3260.7	9.7	B3/5000		
BH	(60°-80°)	2074.9	6.2	B3/2500		G3/2500
BVH	(80°-90°)	351.6	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: P193297

CATALOG NUMBER: GAN-AF-09-LED-U-T4W-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3907.1	3907.1	3907.1	3907.1	3907.1	3907.1	3907.1	3907.1	3907.1	3907.1	3907.1
2.5°	4136.4	4128.3	4125.0	4118.4	4110.3	4069.3	4061.0	4031.5	3990.5	3948.0	3903.9
5°	4408.4	4406.8	4388.7	4355.9	4303.5	4213.4	4192.2	4120.0	4023.4	3930.0	3836.6
7.5°	4647.6	4632.8	4598.4	4532.8	4441.2	4318.3	4288.8	4188.9	4056.1	3928.4	3802.2
10°	4822.8	4814.6	4739.2	4649.2	4529.6	4393.7	4359.2	4247.8	4102.0	3939.9	3782.5
12.5°	4922.7	4906.4	4819.5	4711.4	4568.9	4436.3	4401.8	4288.8	4125.0	3939.9	3754.7
15°	4916.2	4904.7	4817.9	4700.0	4555.8	4439.5	4408.4	4295.3	4120.0	3923.5	3718.6
17.5°	4785.1	4790.0	4716.2	4600.1	4482.1	4393.7	4365.8	4260.9	4087.3	3890.7	3676.1
20°	4555.8	4578.7	4529.6	4426.4	4360.9	4300.2	4282.2	4193.8	4036.5	3843.2	3630.2
22.5°	4326.4	4347.8	4328.1	4241.2	4231.4	4195.4	4185.6	4121.7	3992.3	3813.7	3602.4
25°	4157.8	4177.4	4174.1	4098.8	4128.3	4126.6	4118.4	4087.3	3982.4	3813.7	3607.3
27.5°	4111.9	4118.4	4111.9	4043.0	4084.0	4116.8	4110.3	4105.3	4011.9	3861.2	3669.6
30°	4269.1	4259.3	4208.4	4069.3	4106.9	4152.8	4146.3	4149.5	4100.4	3985.7	3808.8
32.5°	4896.6	4852.3	4691.8	4300.2	4200.3	4224.8	4228.2	4282.2	4290.4	4177.4	4025.0
35°	5835.2	5786.1	5578.0	4919.5	4490.2	4405.2	4405.2	4486.9	4536.1	4452.6	4360.9
37.5°	6829.6	6775.5	6664.2	5777.8	5099.6	4718.0	4709.7	4767.1	4837.6	4857.2	4880.2
40°	7960.0	7902.6	7933.8	6741.1	5949.9	5260.2	5143.9	5103.0	5292.9	5419.2	5602.6
42.5°	9196.8	9170.5	9182.0	7814.1	6918.1	6071.1	5905.7	5694.4	5923.7	6148.1	6533.0
45°	10341.8	10364.8	10353.3	8962.5	7996.0	7060.6	6885.3	6475.8	6700.3	7085.1	7712.6
47.5°	11344.4	11249.5	11396.9	10217.4	9203.4	8168.0	7951.8	7403.0	7630.6	8105.7	9167.3
50°	12561.6	12548.5	12332.2	11891.6	10662.9	9280.4	8997.0	8361.3	8715.2	9375.3	11000.4
52.5°	13841.1	13603.5	13405.2	13193.9	12211.1	10420.5	10073.1	9316.3	9989.7	10820.2	13234.9
55°	14103.1	13996.6	14242.4	14597.9	13703.4	11604.9	11200.2	10513.9	11424.7	12471.5	15811.8
57.5°	14663.3	14661.7	15169.5	15803.6	15240.0	12861.4	12453.5	11960.4	13038.4	14363.7	18547.6
60°	15041.8	15148.2	16091.9	17322.2	16748.8	14312.9	13937.6	13629.6	14873.1	16478.5	21096.6
62.5°	15240.0	15384.1	16671.8	17938.0	18881.7	16729.1	16354.0	15910.0	17300.8	18798.2	22587.2
65°	14416.0	14699.4	16581.7	18470.5	20749.2	20646.0	20477.3	19697.6	20336.4	20631.3	22048.3
67.5°	12135.7	12425.6	14617.6	17974.1	22082.7	24423.7	24459.8	23127.9	22204.0	20788.5	18537.7
70°	8646.3	8874.0	10687.5	15069.7	21067.1	26892.4	27015.3	24708.8	21832.0	18436.1	12951.5
72.5°	4105.3	4244.5	5961.4	9807.7	16717.6	24639.9	24877.5	22690.5	18563.9	13649.3	7065.5
75°	1508.8	1551.4	2015.0	4172.5	9696.4	18170.8	18450.8	16265.5	12306.1	6795.2	2691.5
77.5°	904.2	932.1	1130.4	1761.0	3813.7	10386.0	10800.6	8846.1	5378.2	2529.4	1323.6
80°	632.4	651.9	810.9	1096.0	1802.0	3957.8	4326.4	3610.6	2142.8	1600.5	963.2
82.5°	427.5	437.4	570.2	740.4	1197.5	1413.7	1525.1	1605.4	1444.9	1190.9	611.1
85°	280.1	290.0	386.6	488.2	761.7	730.6	747.0	945.2	1055.0	809.3	339.1
87.5°	160.5	167.0	232.6	260.5	373.5	309.6	312.9	498.0	674.9	545.5	206.4
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: P193297

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3907.1	3907.1	3907.1	3907.1	3907.1	3907.1	3907.1	3907.1	3907.1	3907.1	3907.1
2.5°	3892.4	3871.0	3823.5	3794.0	3766.1	3759.6	3748.1	3746.5	3744.9	3744.9	3740.0
5°	3805.5	3769.5	3695.7	3654.8	3620.5	3617.1	3615.5	3623.7	3627.0	3630.2	3625.3
7.5°	3749.8	3700.6	3609.0	3550.0	3509.0	3499.1	3515.5	3553.2	3577.8	3587.6	3582.7
10°	3715.4	3654.8	3548.3	3484.4	3450.0	3445.1	3466.4	3510.6	3561.5	3581.1	3579.5
12.5°	3676.1	3607.3	3494.2	3427.1	3407.5	3417.3	3445.1	3486.0	3538.5	3569.6	3571.2
15°	3636.8	3556.5	3440.1	3381.2	3373.1	3386.2	3412.3	3443.5	3484.4	3515.5	3518.8
17.5°	3589.2	3505.7	3389.4	3328.8	3322.2	3328.8	3330.4	3346.8	3373.1	3402.6	3410.7
20°	3538.5	3453.2	3332.1	3271.4	3241.9	3215.7	3186.2	3189.5	3197.7	3227.2	3233.7
22.5°	3502.5	3417.3	3287.8	3204.2	3125.7	3047.0	2988.0	2979.8	2983.1	3007.7	3015.9
25°	3505.7	3415.7	3276.3	3132.3	2960.2	2834.0	2755.4	2742.3	2740.7	2758.7	2770.2
27.5°	3569.6	3479.5	3319.0	3058.5	2780.0	2593.3	2509.6	2499.9	2486.7	2491.6	2504.8
30°	3712.1	3628.6	3422.2	2983.1	2585.1	2357.4	2270.5	2260.7	2242.6	2234.5	2244.3
32.5°	3944.7	3876.0	3572.9	2911.1	2390.1	2155.9	2067.4	2046.1	2034.6	2024.8	2033.0
35°	4331.4	4301.9	3774.4	2832.4	2218.1	2000.2	1919.9	1887.2	1870.8	1888.9	1901.9
37.5°	4937.5	4954.0	4038.1	2709.5	2085.4	1897.1	1829.9	1792.2	1767.6	1782.3	1797.1
40°	5795.8	5807.3	4329.7	2535.9	1970.7	1836.4	1764.3	1729.9	1695.4	1669.3	1667.7
42.5°	6923.0	6806.7	4616.4	2347.6	1838.1	1798.7	1718.4	1675.8	1623.5	1551.4	1536.6
45°	8259.8	7851.8	4834.2	2131.3	1688.9	1752.8	1667.7	1608.8	1526.8	1448.1	1439.9
47.5°	9799.6	8974.0	4940.8	1906.9	1549.8	1685.7	1605.4	1512.0	1408.8	1369.6	1364.6
50°	11680.3	10305.8	4991.5	1688.9	1428.4	1597.3	1515.3	1405.5	1318.8	1310.6	1305.6
52.5°	13821.4	11907.9	5007.9	1510.4	1328.6	1482.5	1441.5	1335.1	1266.4	1272.9	1272.9
55°	16062.4	13562.6	4785.1	1381.0	1236.9	1364.6	1392.5	1307.3	1249.9	1276.1	1286.0
57.5°	18120.0	15028.7	4084.0	1281.1	1150.0	1274.5	1374.5	1333.5	1294.1	1400.6	1407.1
60°	19699.2	15895.2	3050.3	1190.9	1086.1	1243.4	1421.9	1433.4	1443.2	1697.2	1731.5
62.5°	20030.1	15607.0	2096.9	1120.6	1056.6	1269.6	1508.8	1510.4	1498.9	1675.8	1697.2
65°	18511.5	13783.7	1525.1	1081.2	1032.1	1317.1	1582.5	1548.1	1472.7	1607.1	1567.8
67.5°	14701.1	10384.4	1269.6	1051.7	996.0	1313.9	1661.1	1582.5	1457.9	1574.3	1510.4
70°	9542.3	6279.1	1130.4	1027.1	953.4	1251.6	1706.9	1579.3	1415.4	1464.5	1389.2
72.5°	4655.7	2807.9	1037.0	991.1	909.1	1164.7	1705.3	1549.8	1371.2	1367.9	1327.0
75°	1821.7	1286.0	951.7	937.0	833.8	1066.5	1659.4	1507.1	1318.8	1266.4	1251.6
77.5°	1066.5	917.3	843.7	856.8	743.7	968.1	1592.4	1433.4	1246.6	1184.4	1168.0
80°	776.5	686.3	719.2	740.4	635.7	869.9	1502.2	1343.4	1166.4	1197.5	1174.5
82.5°	498.0	442.3	583.2	604.5	529.2	769.9	1403.9	1248.3	1053.4	956.7	933.7
85°	253.9	280.1	434.1	460.3	407.9	632.4	1284.4	1122.2	925.5	796.2	809.3
87.5°	142.5	191.6	276.9	309.6	288.3	486.5	1041.9	925.5	755.2	614.4	540.7
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)