

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: P299271

Luminaire Tested: **GAA-AF-10-LED-U-T3-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299271  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-10-LED-U-T3-8030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

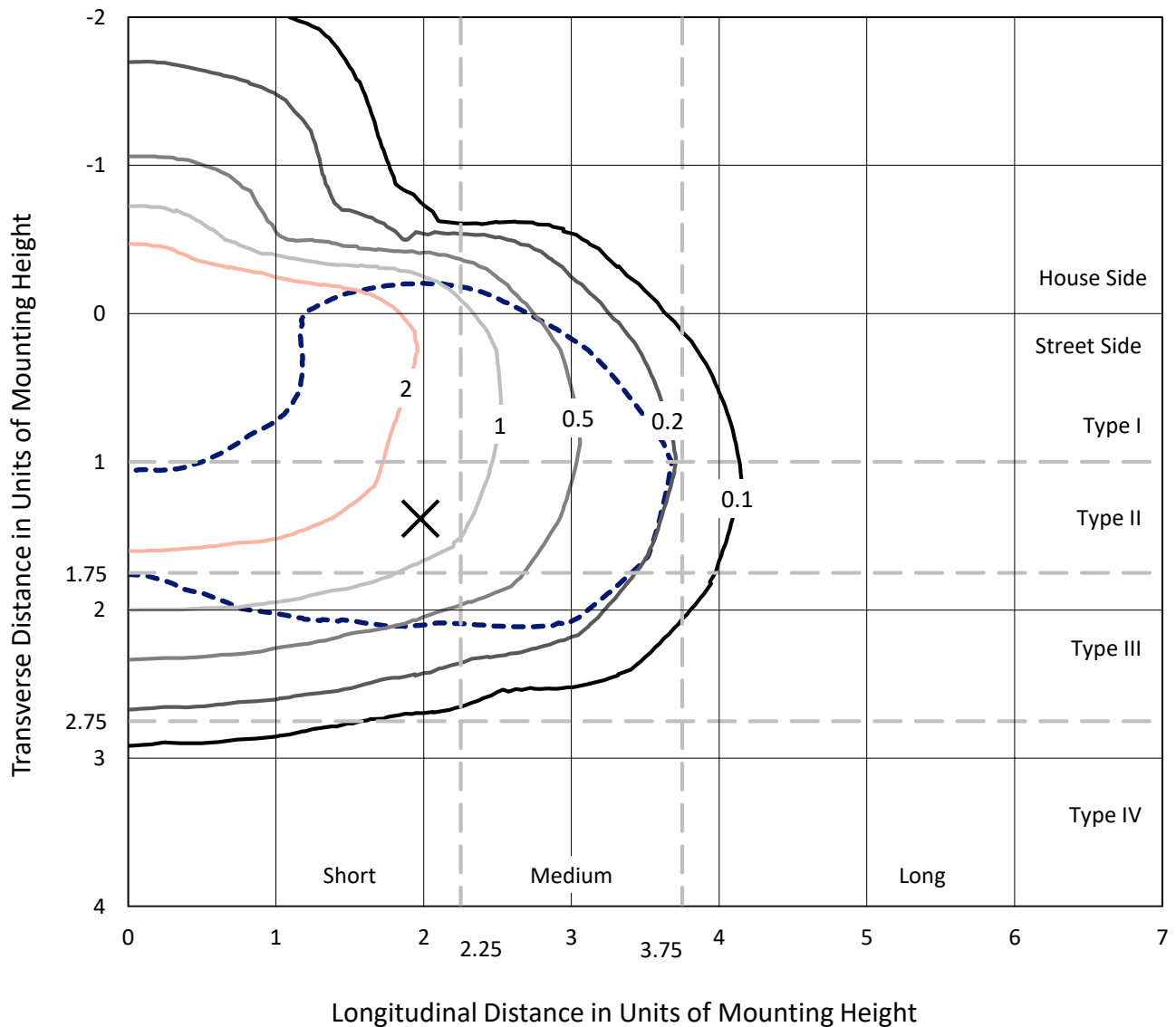
Lumens per Lamp: N/A  
Luminaire Lumens: 31571.1 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (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

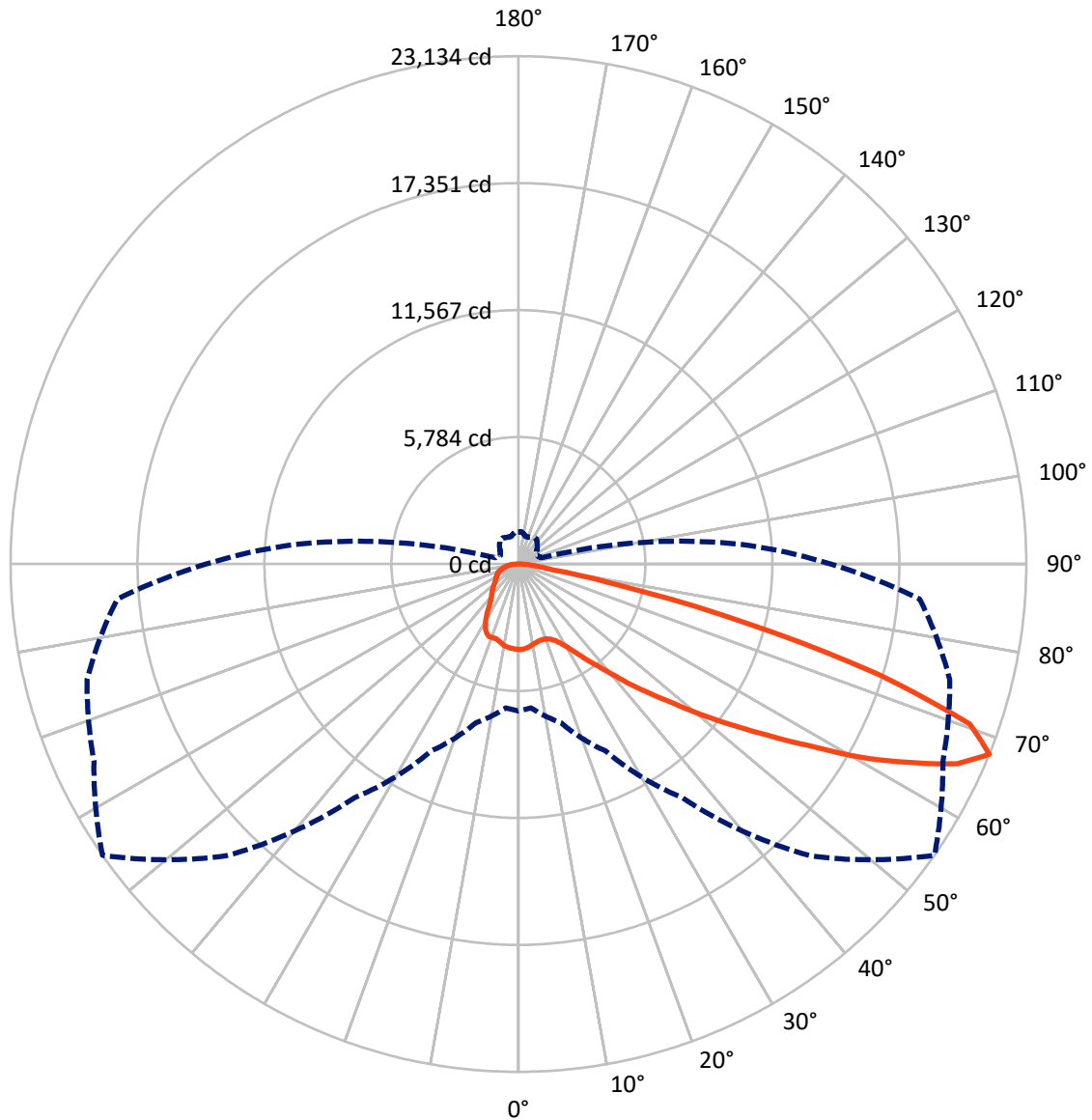
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6820.0	0.0	6820.0
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	24751.1	0.0	24751.1
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	31571.1	0.0	31571.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	363.4	1.2
10°-20°	1029.1	3.3
20°-30°	1723.9	5.5
30°-40°	2834.9	9.0
40°-50°	4772.0	15.1
50°-60°	7510.7	23.8
60°-70°	8963.3	28.4
70°-80°	3849.0	12.2
80°-90°	524.8	1.7
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°	31571.1	100.0
0°-180°	31571.1	100.0

**Coefficient of Utilization**



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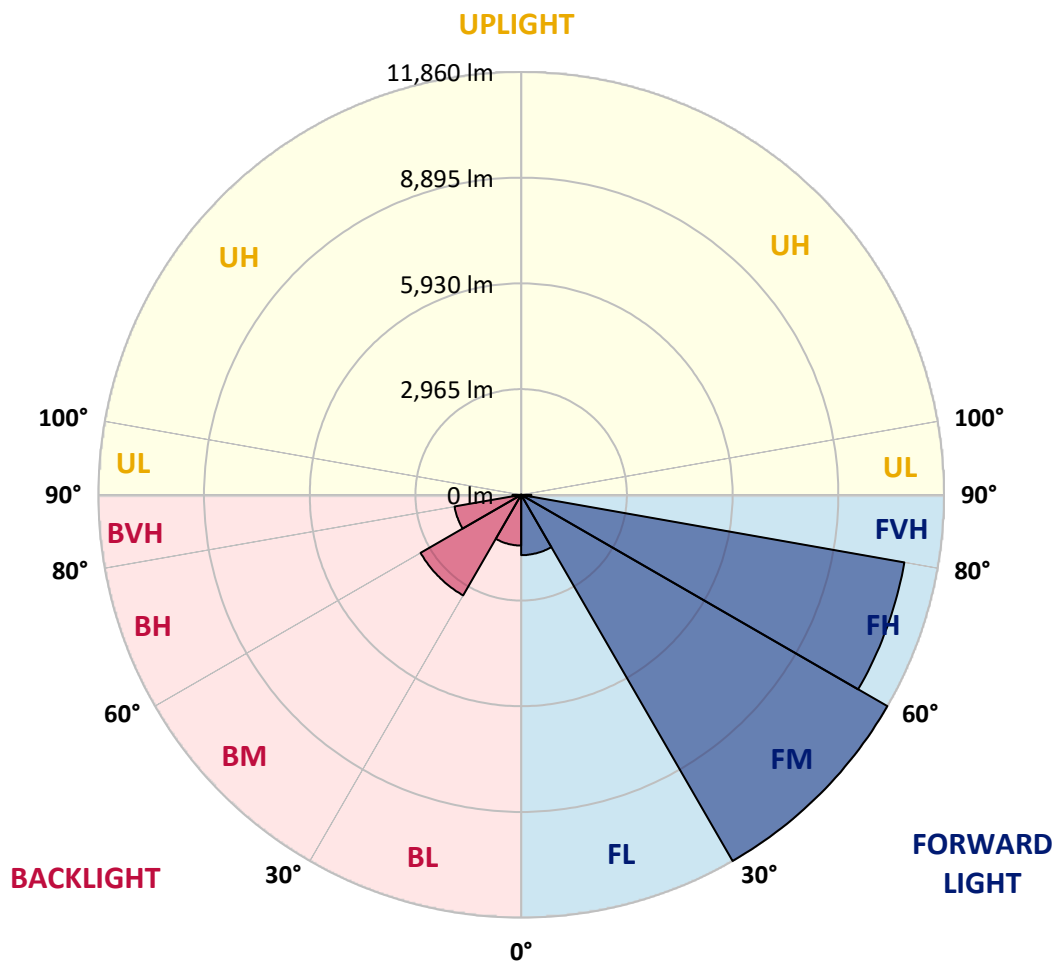
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1692.3	5.4			
FM	(30°-60°)	11860.4	37.6			
FH	(60°-80°)	10914.3	34.6			G4/12000
FVH	(80°-90°)	284.1	0.9			G3/500
BL	(0°-30°)	1424.2	4.5	B3/2500		
BM	(30°-60°)	3257.2	10.3	B3/5000		
BH	(60°-80°)	1898.0	6.0	B3/2500		G3/2500
BVH	(80°-90°)	240.7	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3893.1	3893.1	3893.1	3893.1	3893.1	3893.1	3893.1	3893.1	3893.1	3893.1	3893.1
2.5°	3859.5	3861.0	3864.1	3876.3	3887.0	3883.9	3885.4	3879.3	3877.8	3868.7	3877.8
5°	3810.7	3815.3	3816.8	3836.6	3848.8	3851.9	3847.3	3839.7	3830.5	3821.4	3826.0
7.5°	3699.4	3711.6	3713.1	3740.6	3760.4	3786.3	3787.8	3789.4	3784.8	3778.7	3787.8
10°	3629.3	3632.3	3630.8	3650.6	3665.9	3694.8	3711.6	3740.6	3752.8	3755.8	3761.9
12.5°	3624.7	3621.6	3617.1	3617.1	3612.5	3624.7	3655.2	3696.3	3725.3	3734.5	3742.1
15°	3673.5	3672.0	3656.7	3633.8	3604.9	3595.7	3621.6	3667.4	3705.5	3725.3	3732.9
17.5°	3783.3	3774.1	3749.7	3697.9	3635.4	3611.0	3614.0	3652.1	3696.3	3722.3	3729.9
20°	3984.6	3984.6	3932.7	3835.1	3723.8	3665.9	3638.4	3661.3	3704.0	3739.0	3749.7
22.5°	4332.2	4335.3	4248.4	4088.2	3900.7	3777.2	3708.5	3704.0	3754.3	3793.9	3806.1
25°	4824.8	4812.6	4690.6	4461.8	4176.7	3972.4	3853.4	3826.0	3868.7	3912.9	3928.1
27.5°	5398.1	5353.9	5209.0	4933.0	4564.0	4265.1	4082.1	4037.9	4079.1	4129.4	4144.7
30°	5965.4	5919.6	5747.3	5445.4	5035.2	4657.0	4394.8	4323.1	4381.0	4452.7	4461.8
32.5°	6532.7	6532.7	6340.5	5988.3	5541.5	5125.2	4811.0	4725.7	4821.7	4908.6	4928.5
35°	7211.2	7214.3	7028.2	6604.3	6124.0	5683.3	5337.1	5274.6	5419.5	5480.5	5527.8
37.5°	8045.4	8062.1	7822.7	7310.4	6784.3	6320.7	5909.0	5823.6	5968.4	6134.7	6287.1
40°	8946.6	8967.9	8704.1	8072.8	7546.7	7061.8	6616.5	6462.5	6703.4	7020.6	7217.3
42.5°	9806.6	9916.4	9661.7	9012.1	8446.4	7944.7	7493.3	7269.2	7571.1	8049.9	8220.7
45°	11049.4	11128.7	10685.0	10096.3	9564.2	9003.0	8405.2	8168.9	8591.3	9195.1	9230.2
47.5°	11877.4	11818.0	11592.3	11226.3	10889.3	10364.7	9465.0	9205.8	9767.0	10477.6	10280.9
50°	12318.1	12336.4	12305.9	12327.3	12339.5	12010.1	10764.2	10408.9	11078.4	11936.9	11484.0
52.5°	12729.8	12607.8	12708.5	13208.7	13812.5	13690.5	12177.8	11807.3	12484.3	13556.3	12755.8
55°	12720.7	12534.7	12862.5	13745.4	15055.3	15195.6	13765.2	13338.3	13971.1	15293.2	14103.8
57.5°	12270.8	12280.0	12784.7	13940.6	15921.4	16610.7	15607.3	14966.9	15547.8	17052.9	15334.4
60°	11651.7	11735.6	12463.0	13908.6	16615.3	17771.1	17867.2	16722.0	17092.6	18652.5	16353.0
62.5°	10652.9	10741.4	11744.8	13576.2	16510.1	18888.9	19910.6	18713.5	18707.4	19622.4	16651.9
65°	9077.7	9051.8	10105.5	12333.4	15627.1	19715.4	21940.2	20435.1	19924.3	19637.6	16051.1
67.5°	6694.3	6578.4	7482.7	9393.4	12989.1	18789.8	23134.2	21331.8	20339.1	18346.0	14215.1
70°	3473.7	3357.8	4089.8	5485.1	8542.5	14664.9	21812.1	20868.2	19422.6	15378.6	11136.3
72.5°	1485.2	1465.4	1762.8	2406.3	4132.5	8458.6	17103.2	18062.4	16665.6	11458.1	7656.5
75°	998.8	992.7	1104.0	1311.4	1858.8	3432.5	10703.3	12821.3	12193.1	7104.5	4306.3
77.5°	783.8	776.2	841.7	942.4	1204.7	1354.1	4750.1	6883.4	6371.0	3092.5	1884.8
80°	613.0	606.9	648.1	703.0	866.1	853.9	1563.0	2738.7	2119.6	1184.8	916.5
82.5°	483.4	483.4	516.9	518.5	614.5	582.5	815.8	1206.2	1058.3	690.8	561.2
85°	442.2	442.2	477.3	387.3	401.0	367.5	506.3	715.2	671.0	283.6	244.0
87.5°	222.6	216.5	401.0	343.1	218.1	195.2	247.0	346.2	372.1	157.1	122.0
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3893.1	3893.1	3893.1	3893.1	3893.1	3893.1	3893.1	3893.1	3893.1	3893.1
2.5°	3874.8	3873.2	3876.3	3877.8	3890.0	3906.8	3914.4	3925.1	3931.2	3928.1
5°	3829.0	3832.1	3844.3	3853.4	3874.8	3902.2	3917.5	3929.7	3940.3	3935.8
7.5°	3790.9	3798.5	3816.8	3824.4	3836.6	3844.3	3842.7	3847.3	3856.5	3845.8
10°	3769.5	3778.7	3792.4	3781.7	3752.8	3711.6	3673.5	3653.7	3659.8	3652.1
12.5°	3748.2	3760.4	3749.7	3699.4	3618.6	3565.2	3536.2	3539.3	3553.0	3556.1
15°	3736.0	3740.6	3694.8	3600.3	3517.9	3510.3	3525.6	3522.5	3524.0	3524.0
17.5°	3736.0	3723.8	3638.4	3543.9	3508.8	3495.1	3447.8	3388.3	3362.4	3353.2
20°	3755.8	3723.8	3620.1	3557.6	3481.3	3363.9	3238.9	3129.1	3080.3	3066.6
22.5°	3815.3	3760.4	3672.0	3563.7	3347.1	3150.4	2952.2	2821.1	2732.6	2717.4
25°	3935.8	3874.8	3774.1	3482.9	3133.7	2853.1	2627.4	2481.0	2392.6	2380.4
27.5°	4146.2	4106.5	3829.0	3304.5	2850.0	2549.6	2340.7	2227.9	2162.3	2157.7
30°	4463.4	4443.5	3801.6	3040.6	2500.8	2255.3	2154.7	2089.1	2040.3	2038.8
32.5°	4969.6	4809.5	3711.6	2718.9	2182.1	2046.4	2005.2	1965.6	1927.5	1927.5
35°	5620.8	5105.4	3540.8	2374.3	1988.5	1930.5	1878.7	1816.2	1765.8	1762.8
37.5°	6386.3	5288.3	3234.3	2096.7	1897.0	1852.7	1776.5	1683.5	1595.0	1579.8
40°	7159.4	5343.2	2802.8	1925.9	1839.0	1775.0	1682.0	1572.2	1486.8	1482.2
42.5°	7868.5	5238.0	2345.3	1808.5	1781.1	1695.7	1598.1	1500.5	1433.4	1431.9
45°	8463.2	4965.1	1961.0	1697.2	1720.1	1624.0	1537.1	1457.8	1406.0	1395.3
47.5°	9022.8	4579.3	1691.1	1579.8	1659.1	1584.4	1511.2	1436.5	1386.1	1378.5
50°	9672.4	4163.0	1502.0	1465.4	1605.7	1570.6	1532.5	1454.8	1370.9	1361.7
52.5°	10459.3	3803.1	1354.1	1364.8	1564.5	1588.9	1587.4	1506.6	1360.2	1348.0
55°	11337.6	3403.6	1242.8	1282.4	1547.8	1622.5	1601.1	1555.4	1369.4	1351.1
57.5°	12202.2	2937.0	1165.0	1219.9	1523.4	1619.4	1535.6	1470.0	1390.7	1364.8
60°	12850.3	2310.2	1105.6	1165.0	1470.0	1569.1	1463.9	1377.0	1386.1	1366.3
62.5°	12893.0	1785.7	1033.9	1117.7	1389.2	1518.8	1416.6	1335.8	1406.0	1387.7
65°	12135.1	1349.5	965.3	1061.3	1302.3	1486.8	1370.9	1312.9	1447.1	1427.3
67.5°	10216.8	1085.7	907.3	1003.4	1215.3	1419.7	1329.7	1291.6	1483.7	1448.7
70°	7375.9	925.6	850.9	933.2	1137.6	1343.4	1293.1	1253.5	1384.6	1329.7
72.5°	4541.1	802.1	786.8	840.2	1078.1	1264.1	1238.2	1181.8	1247.4	1203.1
75°	2267.5	695.4	715.2	748.7	994.2	1174.2	1146.7	1090.3	1099.5	1090.3
77.5°	1085.7	594.7	631.3	657.2	886.0	1072.0	1043.0	985.1	974.4	975.9
80°	687.7	497.1	532.2	550.5	791.4	953.1	924.1	866.1	988.1	916.5
82.5°	430.0	404.1	413.2	446.8	689.3	829.5	791.4	739.6	890.5	704.5
85°	237.9	282.1	294.3	323.3	530.7	693.8	655.7	590.1	529.1	520.0
87.5°	141.8	167.7	172.3	193.7	356.8	501.7	443.7	420.9	349.2	347.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)