

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: P301106

Luminaire Tested: **GAA-AF-05-LED-U-T3R-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194839)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-05-LED-U-T3R-8030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24736.1 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

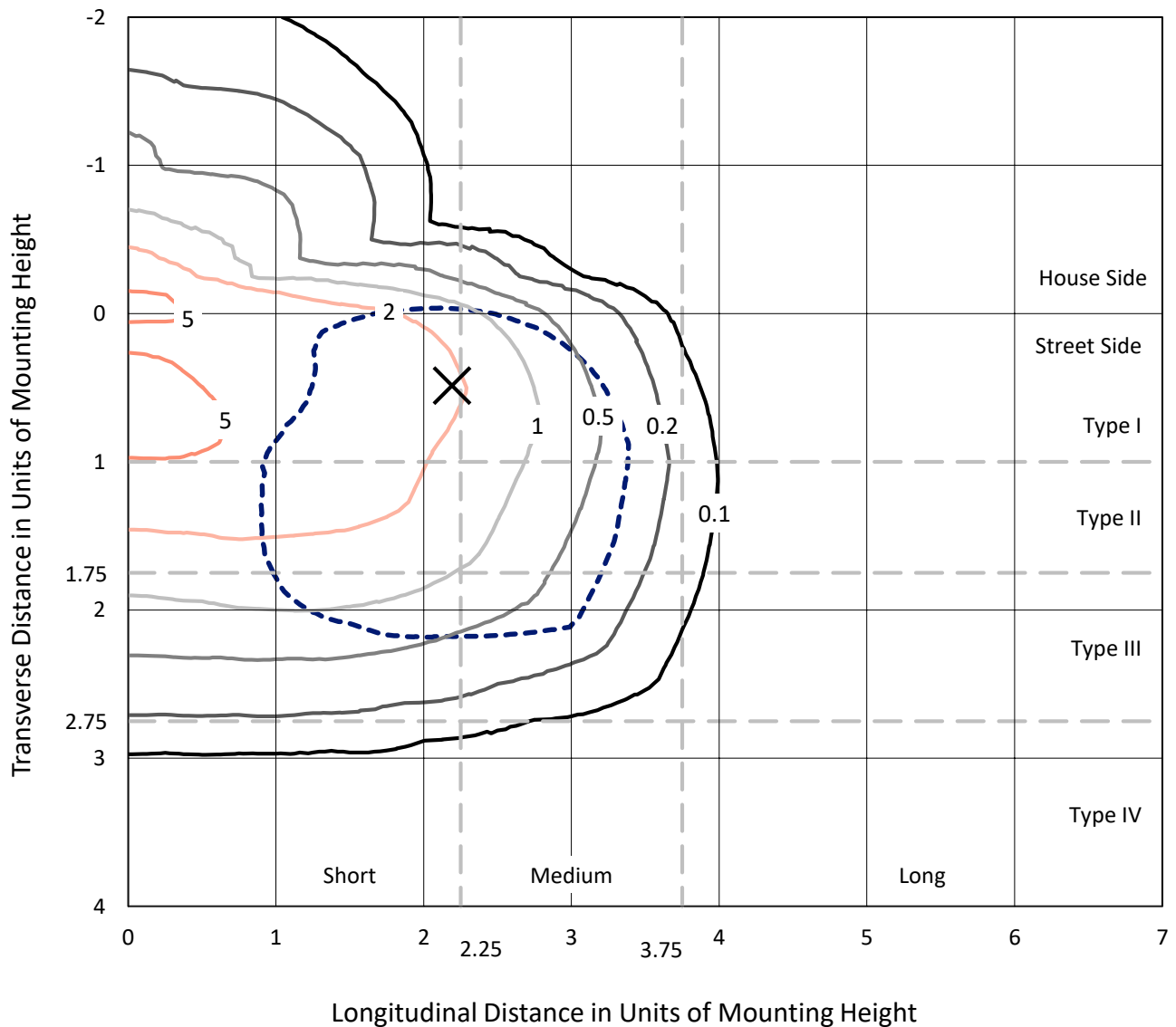
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

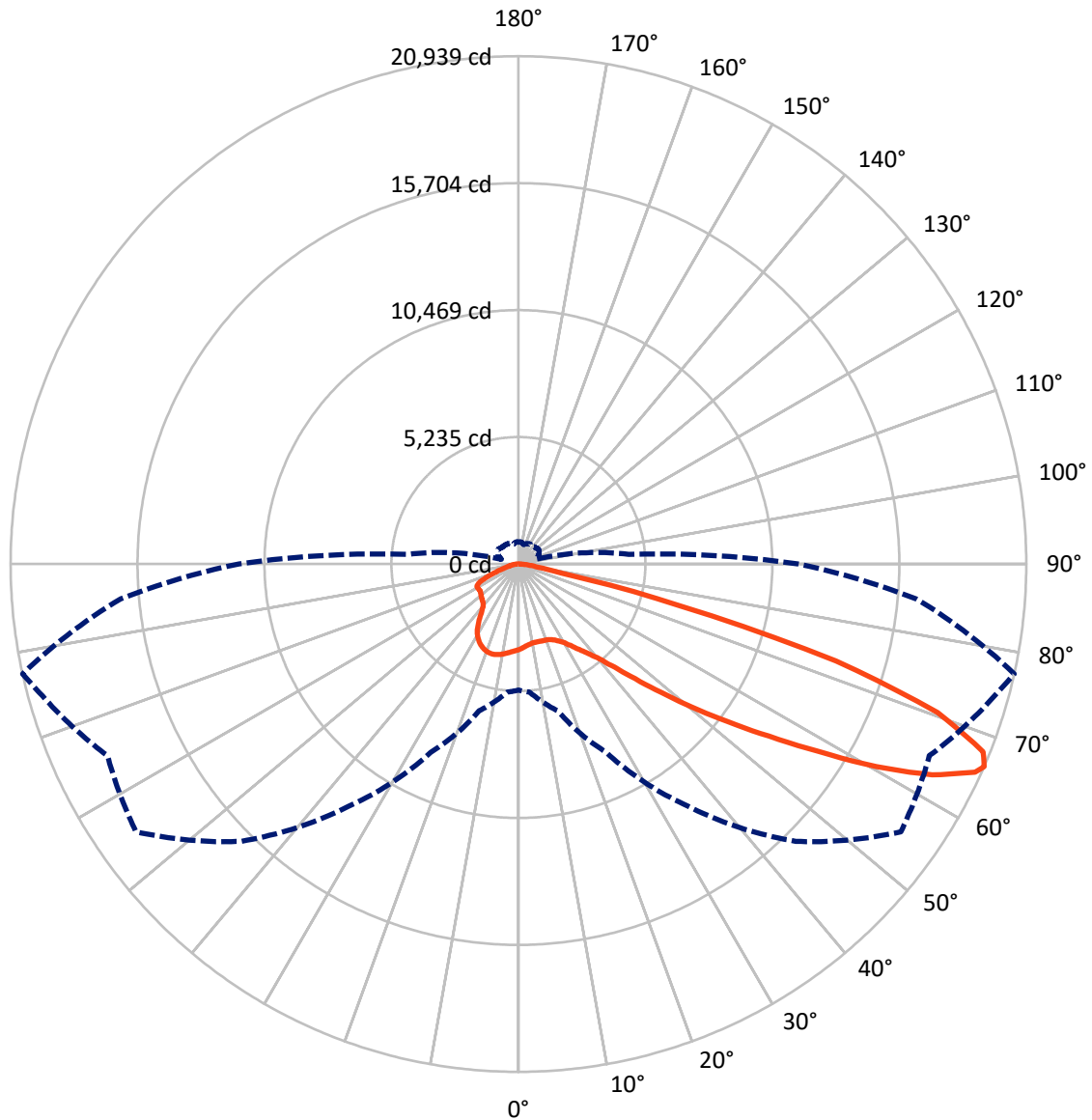
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4226.0	0.0	4226.0
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	20510.1	0.0	20510.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	24736.1	0.0	24736.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.9	1.3
10°-20°	888.5	3.6
20°-30°	1516.3	6.1
30°-40°	2427.3	9.8
40°-50°	3750.0	15.2
50°-60°	5318.8	21.5
60°-70°	7115.1	28.8
70°-80°	3090.0	12.5
80°-90°	315.1	1.3
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°	24736.1	100.0
0°-180°	24736.1	100.0

Coefficient of Utilization



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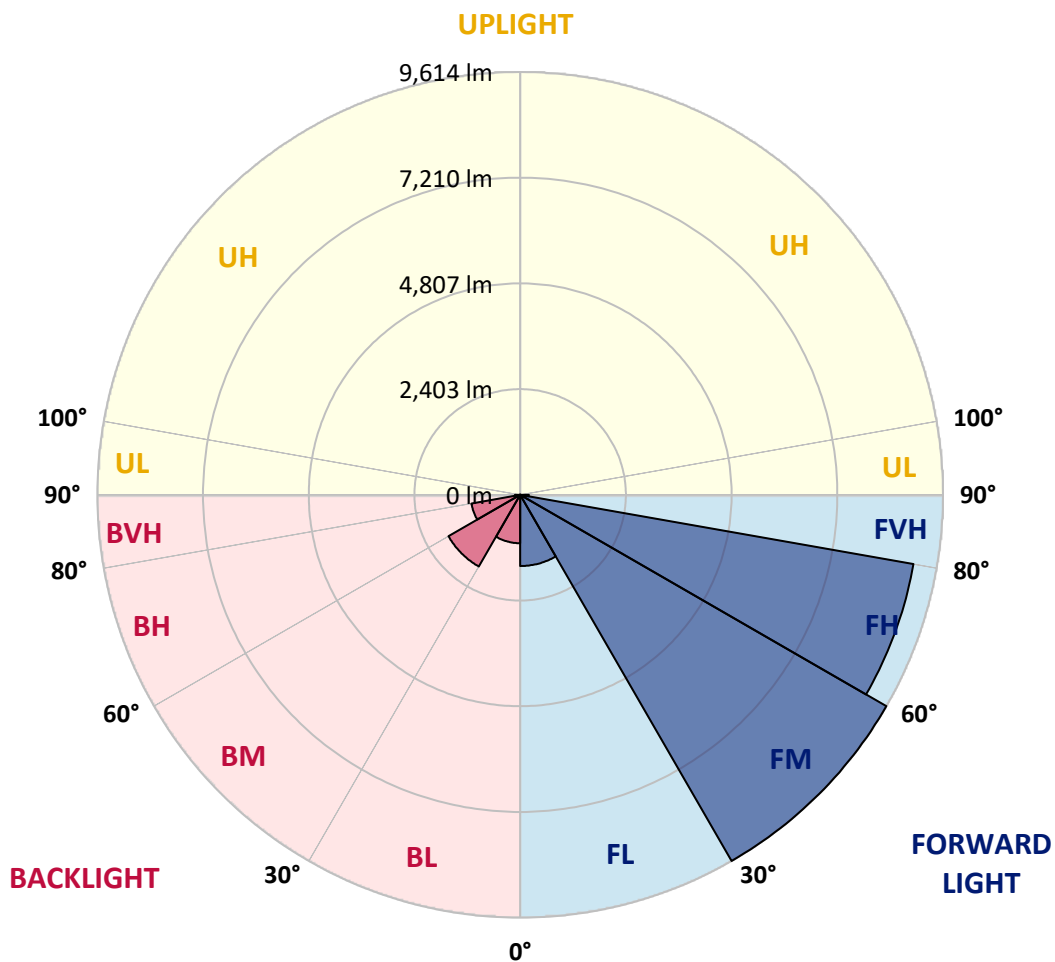
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1619.1	6.5			
FM	(30°-60°)	9613.7	38.9			
FH	(60°-80°)	9079.6	36.7			G4/12000
FVH	(80°-90°)	197.6	0.8			G2/225
BL	(0°-30°)	1100.6	4.4	B3/2500		
BM	(30°-60°)	1882.4	7.6	B2/2500		
BH	(60°-80°)	1125.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	117.5	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	3525.0	3525.0	3525.0	3525.0	3525.0	3525.0	3525.0	3525.0	3525.0	3525.0	3525.0
2.5°	3118.4	3139.2	3156.9	3173.2	3205.8	3259.6	3321.5	3371.7	3444.3	3458.4	3497.0
5°	2832.1	2832.1	2845.9	2870.7	2914.9	2995.6	3079.8	3192.0	3349.8	3387.0	3489.9
7.5°	2693.0	2694.1	2702.2	2723.1	2761.7	2835.3	2927.6	3060.0	3273.7	3335.7	3510.8
10°	2744.3	2732.6	2714.9	2704.7	2710.3	2753.5	2841.3	2988.5	3227.0	3306.3	3557.9
12.5°	3031.7	3009.7	2948.9	2868.2	2791.0	2759.5	2810.9	2954.5	3207.2	3299.6	3619.8
15°	3501.6	3492.4	3378.8	3211.8	3024.9	2868.2	2833.1	2941.8	3209.3	3307.7	3693.4
17.5°	4090.8	4077.7	3928.4	3685.3	3380.2	3075.2	2911.4	2952.4	3217.5	3321.5	3764.6
20°	4685.7	4645.7	4484.7	4194.9	3803.1	3356.5	3041.2	2979.3	3228.1	3336.7	3839.6
22.5°	5129.8	5096.9	4952.2	4670.5	4219.3	3682.8	3215.3	3026.0	3262.0	3381.3	3931.6
25°	5520.1	5522.3	5378.6	5106.5	4640.0	4028.9	3439.7	3150.9	3348.4	3472.2	4057.9
27.5°	6002.8	5974.9	5840.4	5570.4	5056.2	4378.2	3710.8	3322.9	3477.2	3602.1	4223.9
30°	6580.0	6560.2	6404.8	6098.7	5517.7	4753.3	4020.4	3522.5	3643.2	3772.7	4441.2
32.5°	7259.1	7249.9	7088.5	6694.7	6050.6	5195.3	4384.2	3786.8	3890.9	4025.4	4753.3
35°	8056.4	8057.4	7867.1	7393.6	6633.8	5709.5	4796.5	4126.9	4192.4	4332.5	5125.2
37.5°	8547.2	8606.7	8535.5	8052.8	7294.1	6284.5	5331.9	4578.1	4536.0	4677.6	5523.7
40°	8652.3	8724.9	8950.3	8705.0	8033.0	6918.0	5806.4	5011.6	4959.2	5131.9	6036.8
42.5°	8505.1	8605.6	9082.6	9255.3	8817.2	7698.6	6444.5	5655.7	5589.1	5821.6	6674.8
45°	8417.3	8492.4	9044.1	9542.0	9497.4	8581.2	7257.0	6464.3	6439.9	6744.9	7411.3
47.5°	8265.5	8333.5	8863.9	9608.5	9897.3	9389.8	8233.0	7453.4	7501.1	7901.0	8242.2
50°	8347.3	8375.2	8662.9	9439.0	10013.0	9982.5	9323.3	8598.5	8762.4	9261.3	9183.1
52.5°	8335.6	8408.1	8639.6	9160.8	10028.2	10348.4	10397.3	9876.0	10221.0	10793.6	10226.7
55°	6739.2	6872.3	8365.0	9090.8	10081.6	10706.9	11353.5	11222.5	11865.2	12532.6	11404.8
57.5°	6435.3	6519.5	7346.9	9238.0	10366.8	11392.0	12416.9	12704.6	13779.6	14554.6	12840.1
60°	6375.5	6479.5	7336.2	9418.1	10945.4	12508.2	13993.7	14498.7	16109.2	16957.8	14504.4
62.5°	6189.7	6301.9	7267.2	9394.4	11767.1	14052.1	16012.3	16406.1	18318.1	19143.4	15896.5
65°	5600.8	5705.9	6705.3	9017.2	12321.3	15700.1	18400.9	18154.6	20062.0	20682.4	16590.5
66°	5197.4	5300.4	6262.2	8573.0	12192.5	16167.6	19247.4	18695.7	20452.4	20938.6	16455.0
67.5°	4459.9	4540.6	5401.9	7578.3	11508.8	16298.5	19959.1	19102.3	20493.1	20665.0	15680.3
70°	2817.9	2841.3	3510.8	5231.4	8712.1	14134.9	18875.5	18092.7	18803.3	18337.9	13145.1
72.5°	1222.6	1214.5	1685.5	2661.2	4932.3	9484.6	15268.8	14928.7	14750.0	13688.7	9201.9
75°	680.2	689.7	875.5	1235.4	2004.4	4658.8	9988.2	9558.2	8070.2	6886.5	4172.6
77.5°	545.7	558.8	725.8	876.6	899.9	1624.7	4674.0	3803.1	2289.6	1837.3	1159.3
80°	431.4	454.7	633.4	682.6	606.5	669.5	1510.0	1207.4	905.9	830.9	600.9
82.5°	341.1	357.8	543.6	516.7	424.3	451.2	723.3	704.9	589.2	536.5	347.2
85°	245.6	275.7	446.6	389.3	278.1	304.0	480.2	460.4	337.6	275.7	153.2
87.5°	100.5	130.9	315.7	258.3	155.4	141.6	239.6	225.4	160.0	116.8	76.1
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°	3525.0	3525.0	3525.0	3525.0	3525.0	3525.0	3525.0	3525.0	3525.0	3525.0	3525.0
2.5°	3521.4	3549.4	3585.8	3608.1	3619.8	3628.0	3640.7	3639.6	3643.2	3644.2	3648.8
5°	3544.8	3591.5	3644.2	3658.4	3658.4	3645.3	3632.6	3611.3	3603.2	3601.1	3603.2
7.5°	3605.7	3657.0	3702.6	3686.3	3651.3	3599.6	3533.1	3474.7	3443.2	3432.6	3430.5
10°	3682.8	3744.7	3763.5	3701.6	3598.6	3474.7	3342.7	3246.8	3192.0	3176.8	3172.2
12.5°	3776.2	3834.6	3809.1	3678.2	3487.5	3287.9	3105.3	2952.4	2837.7	2801.6	2799.2
15°	3879.2	3924.9	3834.6	3605.7	3321.5	3027.1	2702.2	2438.2	2295.6	2250.0	2246.4
17.5°	3975.1	3998.5	3819.4	3479.3	3077.3	2600.6	2169.3	1965.8	1917.0	1928.6	1930.8
20°	4056.9	4056.9	3768.1	3298.1	2693.0	2038.3	1765.8	1762.7	1797.7	1832.7	1839.8
22.5°	4146.7	4092.9	3678.2	3042.3	2148.0	1667.8	1628.2	1660.7	1700.4	1739.0	1745.0
25°	4257.9	4122.3	3552.9	2654.4	1688.7	1514.6	1529.8	1556.7	1576.5	1601.3	1604.8
27.5°	4381.7	4159.5	3388.4	2120.1	1465.8	1419.0	1430.7	1439.9	1437.5	1447.0	1449.1
30°	4530.0	4203.0	3162.6	1657.2	1373.4	1336.9	1316.1	1307.9	1307.9	1323.1	1328.8
32.5°	4728.9	4267.1	2838.8	1420.1	1328.8	1278.6	1211.0	1180.5	1192.2	1243.5	1255.2
35°	4947.6	4336.1	2400.7	1339.4	1319.6	1251.7	1146.6	1090.3	1091.7	1139.5	1154.7
37.5°	5185.7	4423.8	1920.1	1324.2	1340.5	1253.1	1112.6	1035.4	1004.0	1004.0	1010.0
40°	5490.8	4513.7	1554.6	1334.8	1385.1	1266.9	1095.3	992.3	903.4	905.9	910.5
42.5°	5888.2	4590.9	1358.2	1356.8	1438.9	1285.6	1093.8	934.9	857.8	910.5	958.3
45°	6330.2	4629.4	1271.5	1376.9	1482.0	1297.3	1075.4	925.7	863.8	1020.2	1111.5
47.5°	6838.3	4607.1	1223.7	1383.7	1492.7	1297.3	1054.2	948.0	904.5	1181.6	1288.1
50°	7396.0	4543.1	1177.0	1369.9	1489.1	1294.8	1074.0	970.0	919.7	1209.6	1283.2
52.5°	8051.8	4489.3	1127.8	1339.4	1464.3	1282.1	1097.4	960.8	872.0	1099.9	1151.2
55°	8799.5	4504.5	1073.0	1296.3	1425.8	1257.7	1089.2	923.3	821.7	968.9	1000.4
57.5°	9755.7	4685.7	1007.5	1241.4	1373.4	1216.6	1060.2	905.9	806.5	879.0	897.8
60°	10822.6	5001.0	925.7	1186.2	1307.9	1151.2	1037.9	914.1	813.6	872.0	881.2
62.5°	11605.8	5184.7	855.7	1105.5	1219.1	1078.6	1010.0	924.3	832.3	896.4	894.2
65°	11818.5	4883.2	767.9	987.7	1098.8	1002.9	974.6	936.0	840.5	916.2	905.9
66°	11520.5	4558.3	729.3	932.8	1037.9	965.4	957.2	934.9	836.9	918.7	901.0
67.5°	10797.2	3891.9	662.8	852.1	941.0	909.5	929.3	924.3	827.4	916.2	891.8
70°	8805.5	2655.5	566.9	709.5	783.1	800.5	875.5	887.2	796.9	875.5	821.7
72.5°	6152.5	1617.6	501.4	550.6	633.4	682.6	801.9	835.5	756.2	764.4	713.1
75°	2973.3	859.2	454.7	426.8	491.9	570.5	713.1	765.4	691.8	639.5	620.7
77.5°	926.8	524.8	385.7	343.6	385.7	460.4	595.9	671.0	616.1	535.4	528.3
80°	497.9	385.7	296.9	275.7	305.0	361.3	468.5	559.8	529.4	480.2	428.9
82.5°	328.4	250.2	219.8	213.7	232.5	275.7	348.2	463.9	463.9	411.6	299.4
85°	169.5	153.2	150.8	150.8	162.4	183.7	237.1	357.8	381.1	217.3	180.1
87.5°	84.2	87.8	81.7	85.3	91.3	89.9	113.2	180.1	215.2	132.0	109.7
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)