

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: P191475

Luminaire Tested: **GAN-AF-07-LED-U-T3R-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-T3R-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29013.9 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

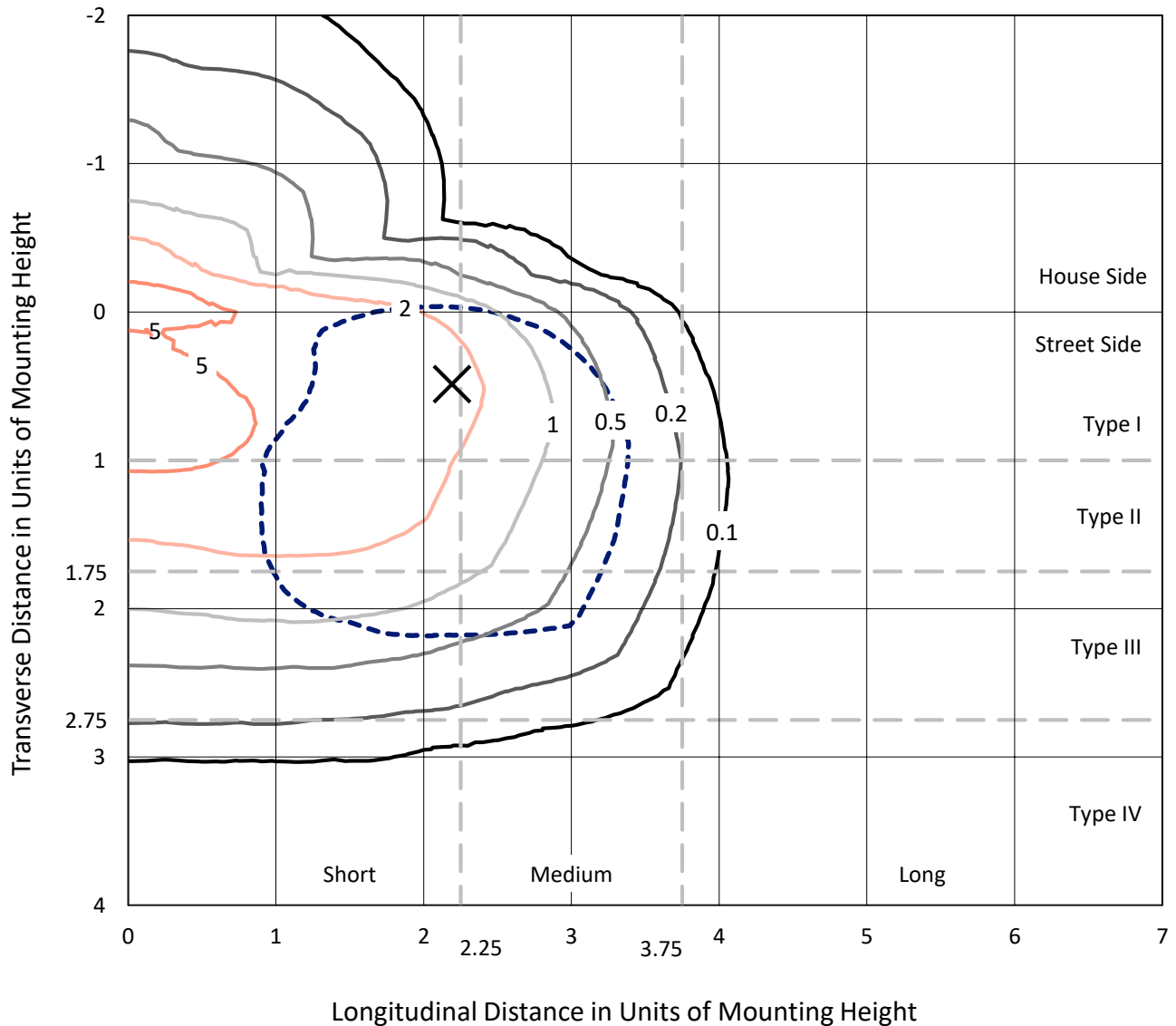
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

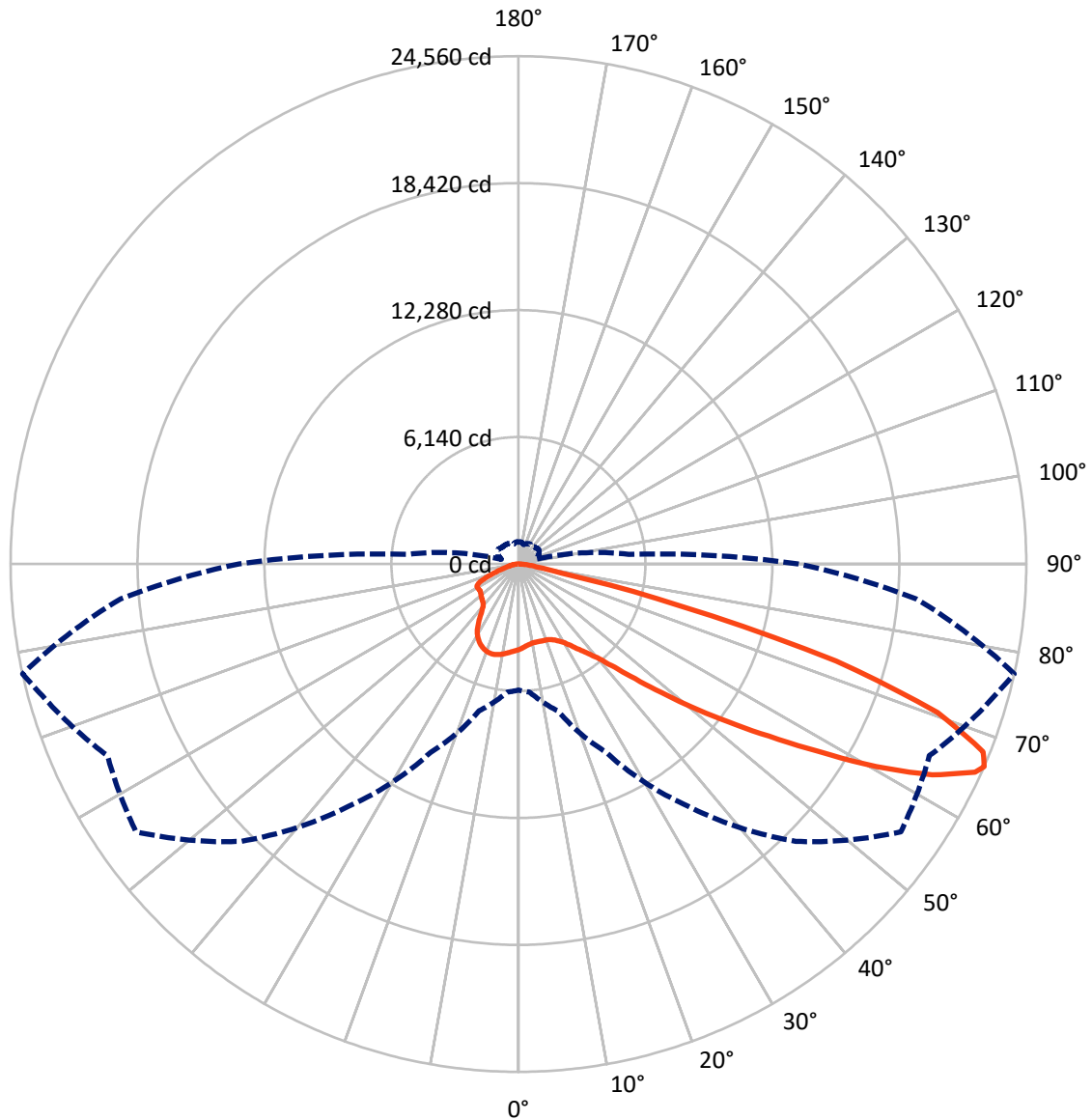
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	4956.8	0.0	4956.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	24057.1	0.0	24057.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	29013.9	0.0	29013.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.4	1.3
10°-20°	1042.1	3.6
20°-30°	1778.5	6.1
30°-40°	2847.1	9.8
40°-50°	4398.5	15.2
50°-60°	6238.6	21.5
60°-70°	8345.6	28.8
70°-80°	3624.4	12.5
80°-90°	369.6	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°	29013.9	100.0
0°-180°	29013.9	100.0



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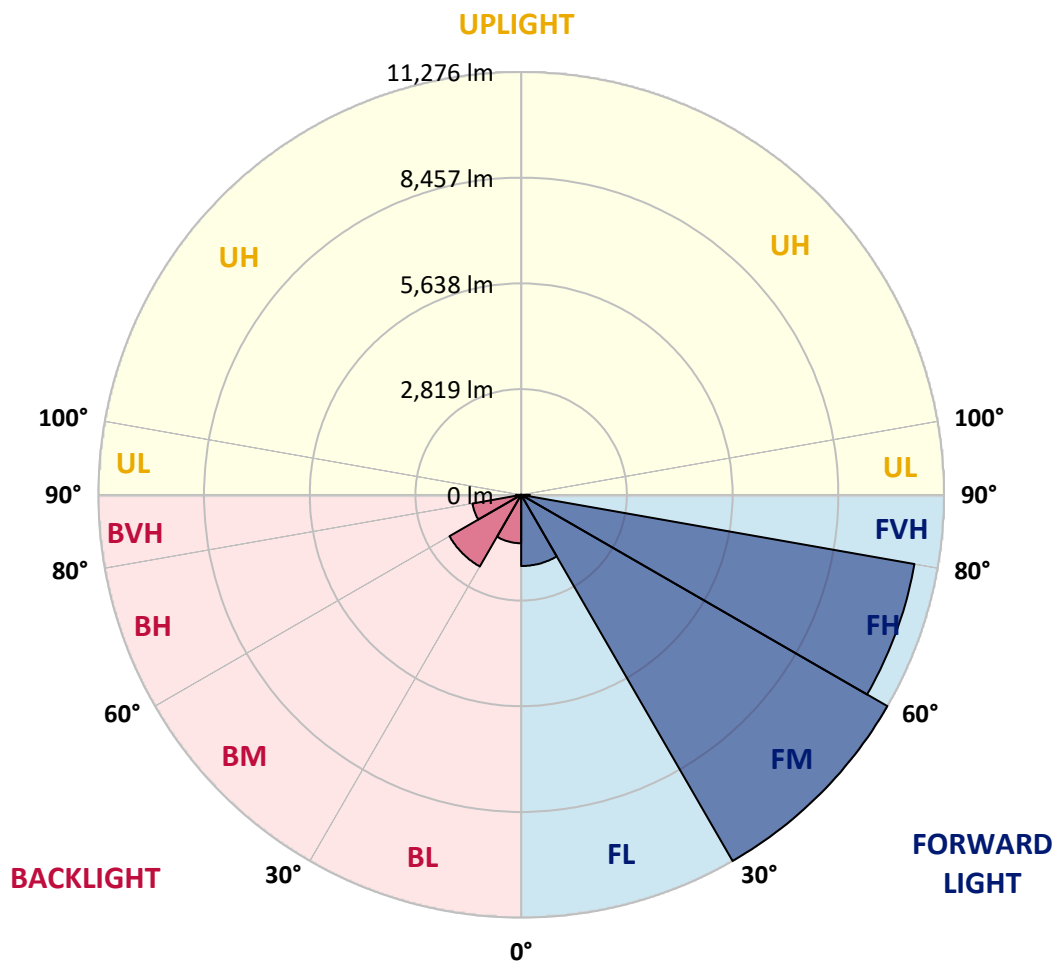
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1899.1	6.5			
FM	(30°-60°)	11276.3	38.9			
FH	(60°-80°)	10649.9	36.7			G4/12000
FVH	(80°-90°)	231.8	0.8			G3/500
BL	(0°-30°)	1291.0	4.4	B3/2500		
BM	(30°-60°)	2208.0	7.6	B2/2500		
BH	(60°-80°)	1320.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	137.8	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°	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7
2.5°	3657.6	3682.2	3702.8	3722.0	3760.4	3823.5	3896.1	3955.0	4040.0	4056.5	4101.7
5°	3321.7	3321.7	3338.1	3366.9	3419.0	3513.6	3612.3	3743.9	3928.9	3972.8	4093.5
7.5°	3158.6	3159.9	3169.5	3194.2	3239.5	3325.8	3434.1	3589.0	3839.9	3912.6	4118.2
10°	3218.8	3205.1	3184.5	3172.3	3179.1	3229.9	3332.7	3505.3	3785.0	3878.3	4173.0
12.5°	3556.1	3530.1	3458.8	3364.2	3273.7	3236.7	3297.0	3465.7	3761.7	3870.0	4245.7
15°	4107.2	4096.2	3963.2	3767.2	3547.9	3364.2	3323.1	3450.5	3764.5	3879.6	4332.0
17.5°	4798.2	4783.0	4607.6	4322.5	3964.7	3606.8	3414.9	3462.9	3774.1	3896.1	4415.7
20°	5495.9	5449.4	5260.1	4920.2	4460.9	3937.2	3567.0	3494.4	3786.5	3913.9	4503.4
22.5°	6016.9	5978.5	5808.5	5478.1	4948.9	4319.7	3771.3	3549.2	3826.1	3966.0	4611.7
25°	6474.8	6477.5	6308.8	5989.5	5442.5	4725.5	4034.5	3695.9	3927.6	4073.0	4759.8
27.5°	7041.0	7008.0	6850.4	6533.7	5930.5	5135.4	4352.6	3897.4	4078.4	4225.1	4954.5
30°	7718.2	7694.8	7512.6	7153.4	6472.0	5575.4	4715.9	4131.9	4273.1	4425.3	5209.4
32.5°	8514.6	8503.7	8314.4	7852.5	7097.1	6093.6	5142.3	4441.8	4563.7	4721.3	5575.4
35°	9449.6	9450.9	9227.5	8672.3	7781.2	6696.8	5626.1	4840.6	4917.4	5081.9	6011.4
37.5°	10025.3	10095.3	10011.6	9445.5	8555.8	7371.3	6254.0	5369.8	5320.5	5486.3	6478.9
40°	10148.8	10233.7	10498.3	10210.5	9422.2	8114.4	6810.6	5878.4	5816.7	6019.7	7080.7
42.5°	9976.0	10094.0	10653.2	10856.2	10342.0	9030.1	7559.1	6633.7	6555.6	6828.4	7829.2
45°	9873.2	9961.0	10608.0	11192.0	11139.9	10065.1	8511.9	7582.4	7553.7	7911.4	8692.8
47.5°	9695.0	9774.5	10396.9	11270.2	11608.8	11013.8	9656.6	8742.2	8798.4	9267.2	9667.6
50°	9791.0	9823.8	10161.1	11071.4	11744.5	11708.8	10935.7	10085.7	10277.6	10863.0	10771.2
52.5°	9777.3	9862.3	10133.7	10745.1	11762.3	12137.9	12195.5	11584.1	11988.5	12660.2	11995.3
55°	7904.5	8060.9	9811.5	10662.8	11825.3	12558.8	13316.9	13163.3	13917.3	14700.1	13377.2
57.5°	7548.1	7646.9	8617.4	10835.6	12159.8	13362.1	14564.4	14901.6	16162.9	17071.8	15060.7
60°	7478.3	7600.2	8605.2	11046.6	12838.4	14671.4	16413.8	17005.9	18895.0	19890.4	17012.8
62.5°	7260.3	7391.8	8524.2	11019.2	13802.2	16482.3	18781.3	19243.2	21486.1	22454.0	18645.5
65°	6569.4	6692.8	7864.9	10576.5	14452.0	18415.3	21583.4	21294.2	23531.4	24259.4	19459.9
66°	6096.4	6217.0	7345.3	10055.5	14301.2	18963.7	22575.9	21928.9	23989.3	24559.6	19300.8
67.5°	5231.4	5325.9	6336.3	8888.9	13499.3	19117.2	23410.8	22405.9	24037.3	24238.8	18391.9
70°	3305.3	3332.7	4118.2	6136.2	10218.7	16579.7	22140.0	21221.5	22055.0	21509.4	15418.5
72.5°	1434.0	1424.4	1976.9	3121.5	5785.2	11124.8	17909.4	17510.5	17300.8	16055.9	10793.1
75°	797.9	808.8	1026.8	1449.0	2351.0	5464.4	11715.7	11211.2	9466.1	8077.3	4894.1
77.5°	640.2	655.3	851.3	1028.2	1055.6	1905.6	5482.2	4460.9	2685.6	2155.1	1359.9
80°	505.8	533.3	743.1	800.6	711.5	785.5	1771.2	1416.2	1062.4	974.7	704.6
82.5°	400.3	419.5	637.5	605.9	497.7	529.2	848.5	826.6	690.9	629.2	407.1
85°	287.9	323.6	523.6	456.5	326.3	356.4	563.4	540.1	396.2	323.6	179.6
87.5°	117.9	153.5	370.1	303.0	182.3	165.9	281.0	264.5	187.8	137.1	89.1
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°	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7	4134.7
2.5°	4130.5	4163.4	4205.9	4231.9	4245.7	4255.3	4270.3	4269.0	4273.1	4274.5	4279.9
5°	4157.9	4212.8	4274.5	4290.9	4290.9	4275.8	4260.8	4236.0	4226.5	4223.8	4226.5
7.5°	4229.2	4289.5	4343.0	4323.8	4282.7	4222.3	4144.2	4075.6	4038.7	4026.3	4023.6
10°	4319.7	4392.3	4414.3	4341.6	4221.0	4075.6	3920.8	3808.3	3743.9	3726.1	3720.6
12.5°	4429.4	4497.9	4467.7	4314.2	4090.8	3856.3	3642.5	3462.9	3328.6	3286.0	3283.3
15°	4550.0	4603.5	4497.9	4229.2	3896.1	3550.7	3169.5	2859.7	2692.4	2639.0	2634.8
17.5°	4662.4	4689.8	4480.1	4081.2	3609.6	3050.2	2544.4	2305.8	2248.2	2261.9	2264.7
20°	4758.4	4758.4	4419.8	3868.7	3158.6	2390.8	2071.5	2067.3	2108.4	2149.5	2157.8
22.5°	4863.9	4800.9	4314.2	3568.5	2519.7	1956.3	1909.6	1948.0	1994.7	2039.9	2046.7
25°	4994.1	4835.2	4167.5	3113.4	1980.9	1776.7	1794.5	1826.1	1849.3	1878.1	1882.2
27.5°	5139.5	4879.1	3974.3	2486.8	1719.1	1664.2	1677.9	1689.0	1686.2	1697.2	1699.9
30°	5313.6	4929.7	3709.6	1943.9	1610.8	1568.3	1543.6	1534.0	1534.0	1551.8	1558.7
32.5°	5546.6	5005.2	3329.9	1665.7	1558.7	1499.7	1420.3	1384.6	1398.3	1458.6	1472.3
35°	5803.0	5086.0	2815.8	1571.0	1547.7	1468.2	1344.9	1279.1	1280.4	1336.6	1354.5
37.5°	6082.7	5188.8	2252.4	1553.2	1572.4	1469.6	1305.1	1214.7	1177.6	1177.6	1184.5
40°	6440.5	5294.4	1823.3	1565.5	1624.5	1486.0	1284.5	1163.9	1059.7	1062.4	1068.0
42.5°	6906.6	5384.9	1592.9	1591.6	1687.6	1508.0	1283.2	1096.7	1006.3	1068.0	1124.1
45°	7424.8	5430.1	1491.6	1614.9	1738.3	1521.7	1261.2	1085.8	1013.1	1196.8	1303.8
47.5°	8021.2	5404.0	1435.3	1623.1	1750.7	1521.7	1236.5	1111.8	1061.1	1386.0	1510.7
50°	8675.0	5328.7	1380.5	1606.6	1746.5	1519.0	1259.9	1137.8	1078.9	1418.8	1505.3
52.5°	9444.1	5265.6	1322.9	1571.0	1717.7	1503.8	1287.3	1126.9	1022.6	1290.0	1350.3
55°	10321.5	5283.4	1258.4	1520.3	1672.5	1475.1	1277.7	1083.0	963.7	1136.5	1173.5
57.5°	11442.8	5495.9	1181.7	1455.9	1610.8	1427.1	1243.4	1062.4	945.9	1030.9	1052.8
60°	12694.5	5866.1	1085.8	1391.4	1534.0	1350.3	1217.3	1072.1	954.1	1022.6	1033.7
62.5°	13613.0	6081.3	1003.5	1296.9	1429.9	1265.3	1184.5	1084.4	976.1	1051.5	1048.7
65°	13862.5	5727.6	900.7	1158.4	1288.6	1176.2	1143.4	1098.1	985.7	1074.8	1062.4
66°	13513.0	5346.5	855.4	1093.9	1217.3	1132.4	1122.8	1096.7	981.5	1077.6	1056.9
67.5°	12664.3	4565.1	777.3	999.4	1103.6	1066.5	1089.9	1084.4	970.6	1074.8	1046.0
70°	10328.3	3114.7	664.9	832.2	918.5	939.1	1026.8	1040.5	935.0	1026.8	963.7
72.5°	7216.4	1897.4	588.1	645.7	743.1	800.6	940.4	980.2	887.0	896.6	836.3
75°	3487.5	1007.6	533.3	500.4	577.1	669.0	836.3	897.9	811.6	749.9	727.9
77.5°	1087.1	615.5	452.3	403.0	452.3	540.1	699.2	786.9	722.5	627.9	619.6
80°	584.0	452.3	348.2	323.6	357.8	423.6	549.7	656.6	621.0	563.4	503.1
82.5°	385.2	293.4	257.7	250.8	272.8	323.6	408.6	544.2	544.2	482.5	351.0
85°	198.8	179.6	176.9	176.9	190.6	215.2	278.2	419.5	446.9	255.0	211.1
87.5°	98.7	102.8	96.0	100.0	106.9	105.6	133.0	211.1	252.3	154.9	128.9
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)