

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: P193177

Luminaire Tested: **GAN-AF-09-LED-U-T3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193177
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: GAN-AF-09-LED-U-T3-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33916.2 lumens
Efficiency: N/A
Efficacy: 117.0 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

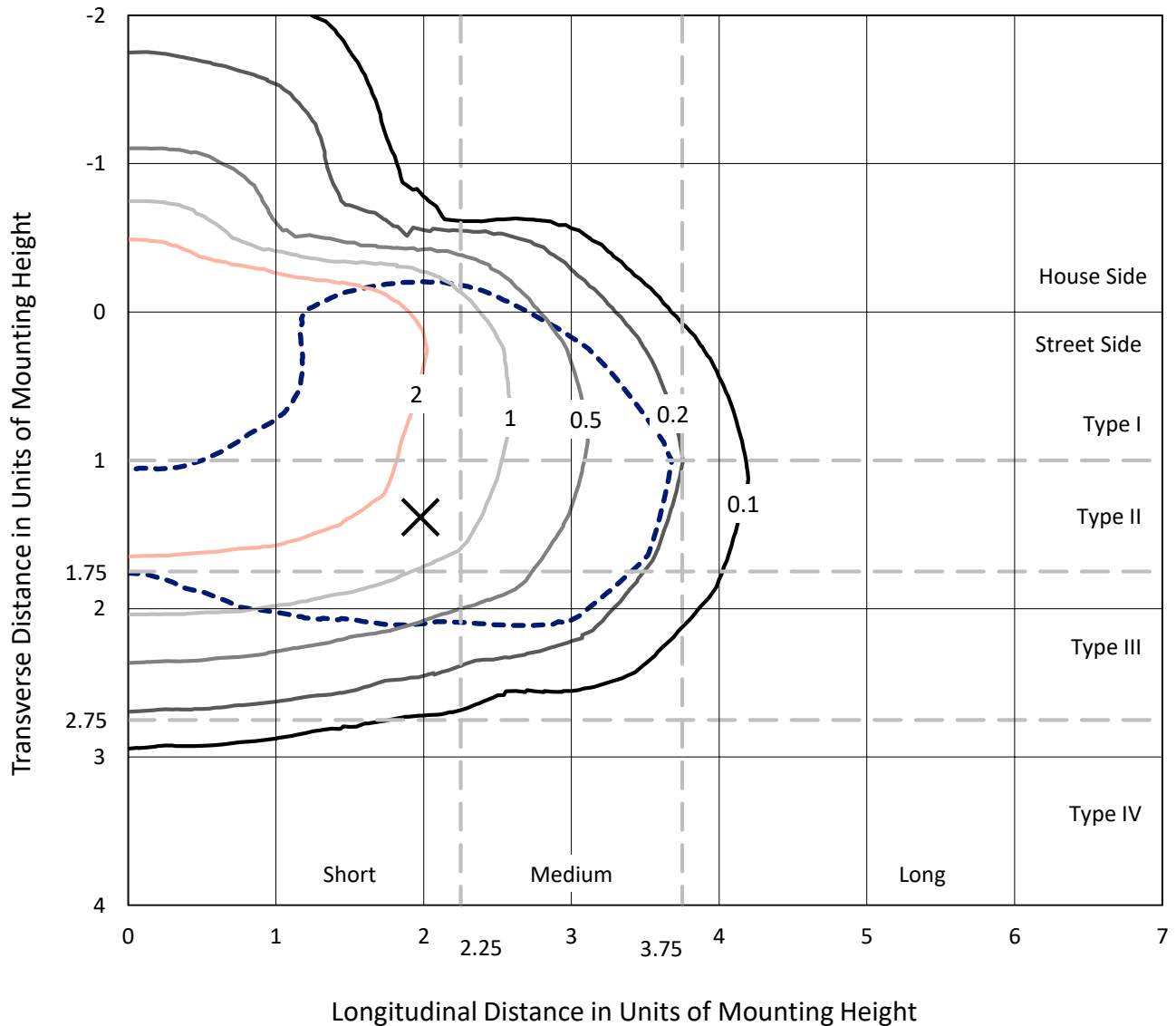
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

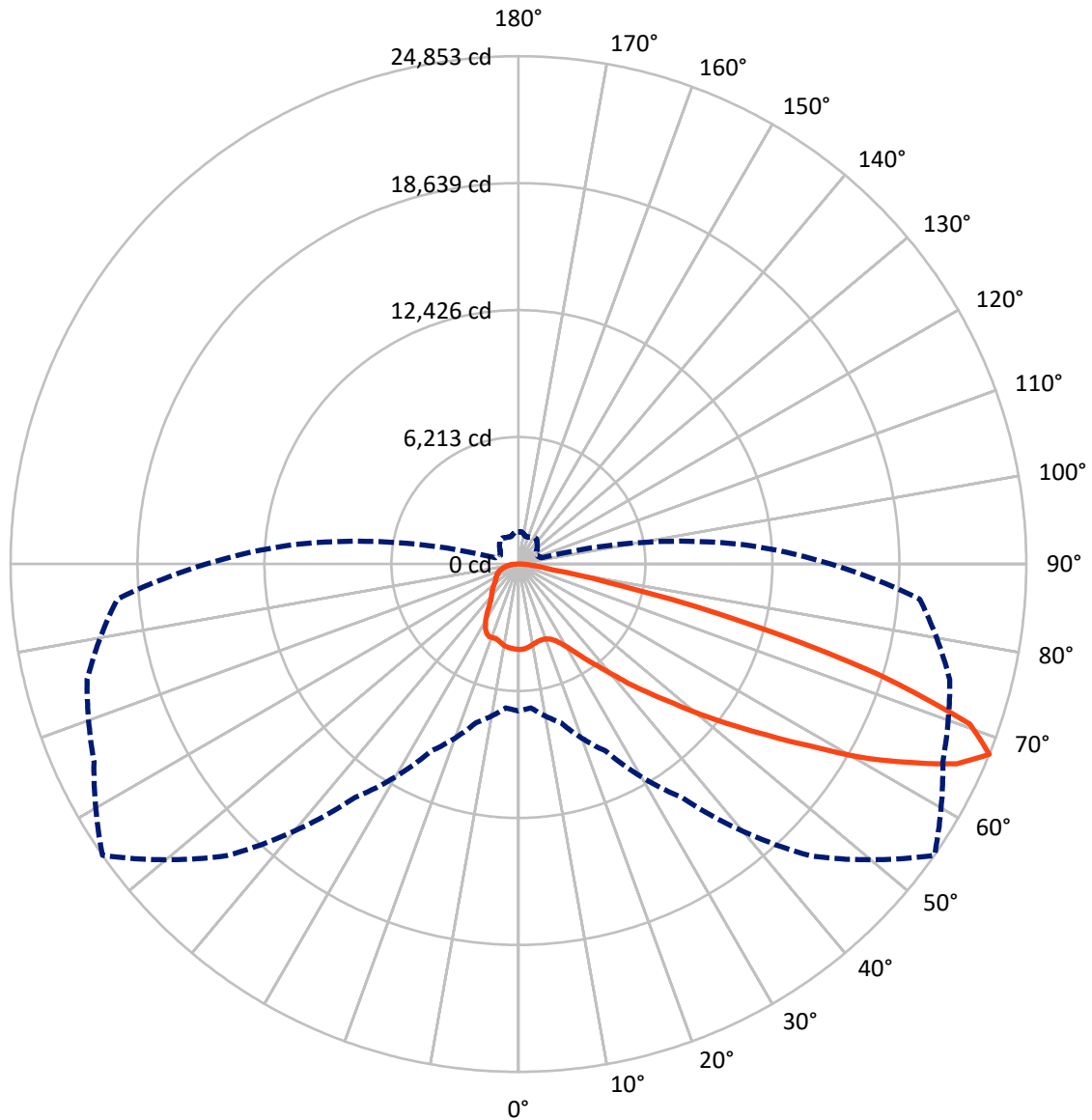
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 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
House Side	Lumens	7326.6	0.0	7326.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	26589.6	0.0	26589.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	33916.2	0.0	33916.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.4	1.2
10°-20°	1105.6	3.3
20°-30°	1852.0	5.5
30°-40°	3045.5	9.0
40°-50°	5126.5	15.1
50°-60°	8068.6	23.8
60°-70°	9629.1	28.4
70°-80°	4134.9	12.2
80°-90°	563.8	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°	33916.2	100.0
0°-180°	33916.2	100.0



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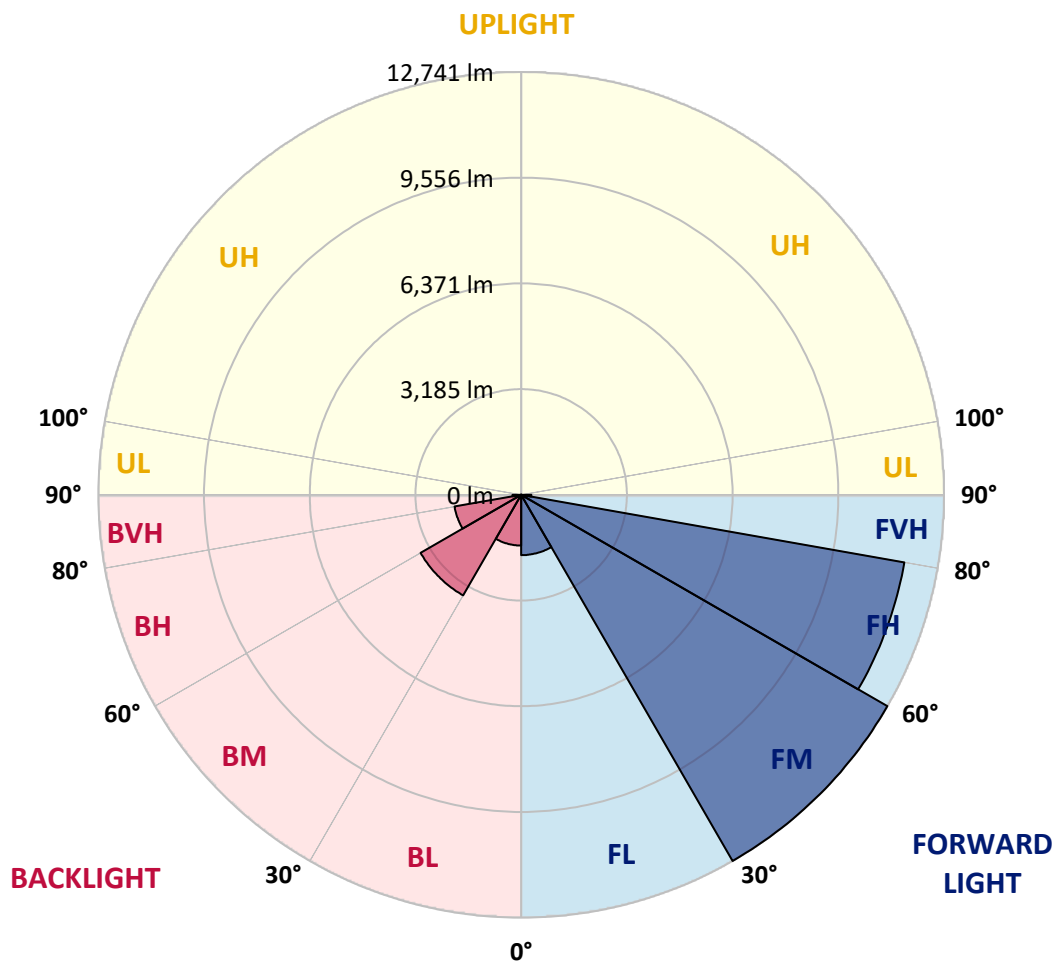
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1818.0	5.4			
FM	(30°-60°)	12741.4	37.6			
FH	(60°-80°)	11725.0	34.6			G4/12000
FVH	(80°-90°)	305.2	0.9			G3/500
BL	(0°-30°)	1529.9	4.5	B3/2500		
BM	(30°-60°)	3499.1	10.3	B3/5000		
BH	(60°-80°)	2039.0	6.0	B3/2500		G3/2500
BVH	(80°-90°)	258.6	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°	4182.2	4182.2	4182.2	4182.2	4182.2	4182.2	4182.2	4182.2	4182.2	4182.2	4182.2
2.5°	4146.2	4147.8	4151.1	4164.2	4175.7	4172.4	4174.0	4167.4	4165.8	4156.0	4165.8
5°	4093.8	4098.8	4100.4	4121.6	4134.7	4137.9	4133.1	4124.9	4115.0	4105.2	4110.2
7.5°	3974.2	3987.3	3988.9	4018.4	4039.8	4067.6	4069.3	4070.9	4066.0	4059.4	4069.3
10°	3898.8	3902.0	3900.4	3921.8	3938.1	3969.3	3987.3	4018.4	4031.5	4034.8	4041.4
12.5°	3893.9	3890.6	3885.7	3885.7	3880.8	3893.9	3926.7	3970.9	4002.0	4011.9	4020.0
15°	3946.3	3944.7	3928.3	3903.8	3872.5	3862.8	3890.6	3939.8	3980.8	4002.0	4010.3
17.5°	4064.3	4054.5	4028.3	3972.5	3905.4	3879.1	3882.4	3923.4	3970.9	3998.8	4007.0
20°	4280.6	4280.6	4224.8	4119.9	4000.4	3938.1	3908.6	3933.3	3979.1	4016.8	4028.3
22.5°	4654.0	4657.2	4564.0	4391.9	4190.4	4057.8	3984.0	3979.1	4033.2	4075.8	4088.9
25°	5183.2	5170.0	5039.0	4793.3	4486.9	4267.4	4139.7	4110.2	4156.0	4203.5	4219.9
27.5°	5799.2	5751.6	5595.9	5299.5	4903.0	4582.0	4385.3	4337.9	4382.1	4436.2	4452.6
30°	6408.5	6359.3	6174.2	5849.8	5409.2	5003.0	4721.2	4644.2	4706.5	4783.5	4793.3
32.5°	7017.9	7017.9	6811.6	6433.0	5953.1	5505.9	5168.4	5076.7	5179.9	5273.3	5294.6
35°	7746.9	7750.2	7550.4	7094.9	6578.9	6105.4	5733.6	5666.4	5822.1	5887.6	5938.3
37.5°	8643.0	8661.0	8403.7	7853.3	7288.2	6790.3	6347.9	6256.1	6411.8	6590.3	6754.2
40°	9611.1	9634.1	9350.6	8672.5	8107.2	7586.3	7108.0	6942.6	7201.4	7542.1	7753.5
42.5°	10535.1	10653.0	10379.4	9681.6	9073.9	8534.9	8050.0	7809.2	8133.5	8647.9	8831.3
45°	11870.2	11955.3	11478.7	10846.2	10274.6	9671.7	9029.6	8775.7	9229.4	9878.1	9915.9
47.5°	12759.8	12695.8	12453.4	12060.1	11698.2	11134.6	10168.1	9889.6	10492.5	11255.9	11044.6
50°	13233.2	13252.8	13220.1	13243.0	13256.1	12902.2	11563.8	11182.1	11901.3	12823.5	12337.0
52.5°	13675.4	13544.5	13652.5	14189.8	14838.5	14707.5	13082.3	12684.4	13411.7	14563.2	13703.3
55°	13665.6	13465.7	13817.9	14766.5	16173.6	16324.3	14787.8	14329.1	15009.0	16429.2	15151.4
57.5°	13182.3	13192.2	13734.4	14976.1	17104.1	17844.5	16766.7	16078.6	16702.8	18319.6	16473.4
60°	12517.3	12607.3	13388.7	14941.7	17849.4	19091.2	19194.4	17964.2	18362.2	20038.0	17567.7
62.5°	11444.3	11539.3	12617.1	14584.6	17736.5	20291.9	21389.5	20103.6	20097.0	21079.9	17888.8
65°	9752.1	9724.2	10856.1	13249.6	16787.9	21179.9	23570.0	21953.1	21404.3	21096.4	17243.4
67.5°	7191.6	7067.1	8038.5	10091.0	13953.9	20185.5	24852.6	22916.4	21849.8	19708.8	15271.0
70°	3731.7	3607.2	4393.6	5892.5	9177.0	15754.3	23432.4	22418.4	20865.4	16521.0	11963.6
72.5°	1595.6	1574.3	1893.7	2585.1	4439.4	9086.9	18373.7	19404.1	17903.5	12309.1	8225.2
75°	1073.0	1066.5	1186.0	1408.8	1996.9	3687.5	11498.3	13773.8	13098.8	7632.2	4626.1
77.5°	842.1	833.8	904.2	1012.4	1294.1	1454.7	5102.9	7394.6	6844.2	3322.2	2024.8
80°	658.5	651.9	696.2	755.2	930.5	917.3	1679.1	2942.2	2277.1	1272.9	984.5
82.5°	519.3	519.3	555.4	557.0	660.2	625.7	876.4	1295.9	1136.9	742.1	602.9
85°	475.1	475.1	512.8	416.1	430.8	394.8	543.9	768.3	720.8	304.8	262.1
87.5°	239.2	232.6	430.8	368.6	234.3	209.7	265.4	371.9	399.7	168.7	131.0
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°	4182.2	4182.2	4182.2	4182.2	4182.2	4182.2	4182.2	4182.2	4182.2	4182.2
2.5°	4162.6	4160.9	4164.2	4165.8	4178.9	4196.9	4205.2	4216.7	4223.2	4219.9
5°	4113.4	4116.7	4129.8	4139.7	4162.6	4192.1	4208.4	4221.6	4233.0	4228.2
7.5°	4072.5	4080.8	4100.4	4108.4	4121.6	4129.8	4128.2	4133.1	4142.9	4131.4
10°	4049.5	4059.4	4074.2	4062.7	4031.5	3987.3	3946.3	3925.0	3931.5	3923.4
12.5°	4026.6	4039.8	4028.3	3974.2	3887.3	3830.1	3799.0	3802.2	3817.0	3820.2
15°	4013.5	4018.4	3969.3	3867.7	3779.3	3771.1	3787.5	3784.2	3785.9	3785.9
17.5°	4013.5	4000.4	3908.6	3807.1	3769.5	3754.7	3703.9	3640.0	3612.1	3602.4
20°	4034.8	4000.4	3889.0	3821.9	3740.0	3613.7	3479.5	3361.5	3309.1	3294.3
22.5°	4098.8	4039.8	3944.7	3828.5	3595.8	3384.5	3171.5	3030.7	2935.6	2919.2
25°	4228.2	4162.6	4054.5	3741.6	3366.4	3065.0	2822.6	2665.3	2570.4	2557.2
27.5°	4454.2	4411.6	4113.4	3550.0	3061.8	2739.0	2514.6	2393.4	2323.0	2318.1
30°	4795.0	4773.6	4084.0	3266.6	2686.5	2422.9	2314.7	2244.3	2191.8	2190.2
32.5°	5338.9	5166.8	3987.3	2920.8	2344.2	2198.4	2154.1	2111.7	2070.7	2070.7
35°	6038.3	5484.6	3803.9	2550.6	2136.1	2074.0	2018.2	1951.1	1897.0	1893.7
37.5°	6860.6	5681.2	3474.6	2252.5	2037.9	1990.3	1908.4	1808.6	1713.5	1697.2
40°	7691.2	5740.2	3010.9	2069.1	1975.6	1906.8	1806.9	1688.9	1597.3	1592.4
42.5°	8453.0	5627.1	2519.5	1942.8	1913.3	1821.7	1716.8	1612.0	1539.9	1538.3
45°	9091.8	5333.9	2106.7	1823.3	1847.9	1744.7	1651.2	1566.1	1510.4	1498.9
47.5°	9693.1	4919.4	1816.8	1697.2	1782.3	1702.0	1623.4	1543.2	1489.1	1480.9
50°	10390.9	4472.2	1613.6	1574.3	1724.9	1687.3	1646.3	1562.9	1472.7	1462.9
52.5°	11236.2	4085.6	1454.7	1466.1	1680.7	1706.9	1705.3	1618.4	1461.3	1448.1
55°	12179.7	3656.4	1335.1	1377.6	1662.7	1743.0	1720.1	1670.9	1471.0	1451.4
57.5°	13108.6	3155.1	1251.6	1310.6	1636.4	1739.7	1649.6	1579.3	1494.0	1466.1
60°	13804.8	2481.9	1187.6	1251.6	1579.3	1685.7	1572.7	1479.3	1489.1	1467.8
62.5°	13850.7	1918.3	1110.7	1200.8	1492.4	1631.6	1521.9	1435.0	1510.4	1490.8
65°	13036.6	1449.8	1037.0	1140.1	1398.9	1597.3	1472.7	1410.4	1554.6	1533.4
67.5°	10975.7	1166.4	974.7	1078.0	1305.6	1525.1	1428.4	1387.5	1594.0	1556.3
70°	7923.8	994.4	914.1	1002.6	1222.1	1443.2	1389.1	1346.6	1487.4	1428.4
72.5°	4878.4	861.7	845.3	902.6	1158.1	1358.1	1330.2	1269.6	1340.1	1292.5
75°	2435.9	747.0	768.3	804.3	1068.1	1261.4	1231.9	1171.3	1181.1	1171.3
77.5°	1166.4	638.8	678.2	706.1	951.7	1151.6	1120.5	1058.2	1046.8	1048.5
80°	738.8	534.1	571.8	591.4	850.2	1023.9	992.7	930.5	1061.6	984.5
82.5°	461.9	434.1	443.9	479.9	740.4	891.1	850.2	794.6	956.7	756.8
85°	255.5	303.0	316.2	347.3	570.2	745.3	704.4	633.9	568.4	558.7
87.5°	152.3	180.2	185.0	208.0	383.3	538.9	476.7	452.2	375.1	373.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)