

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: P320868

Luminaire Tested: **GAN-SA4A-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16129 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 129
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: 24 FT



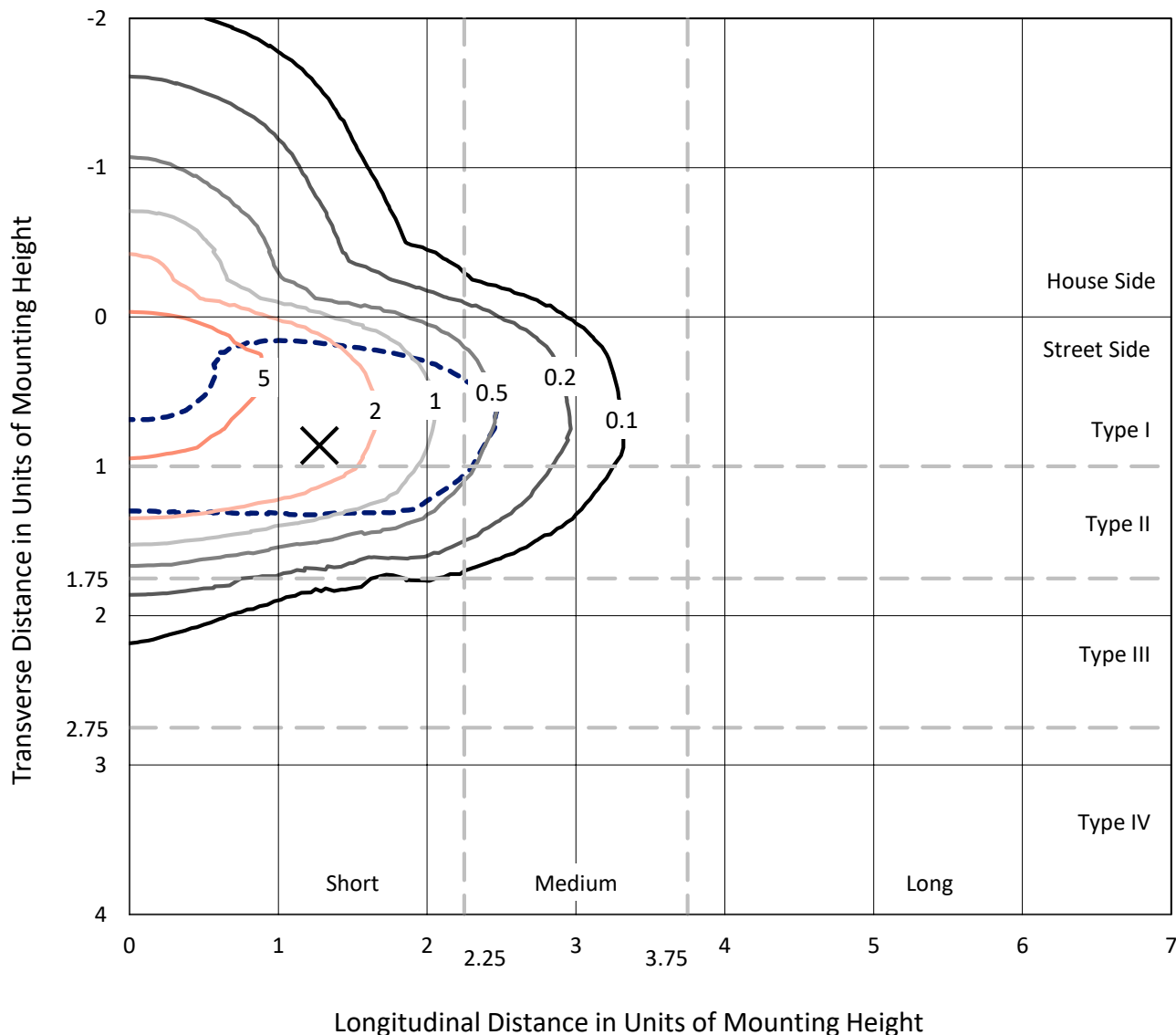
REPORT NUMBER: P320868

CATALOG NUMBER: GAN-SA4A-727-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

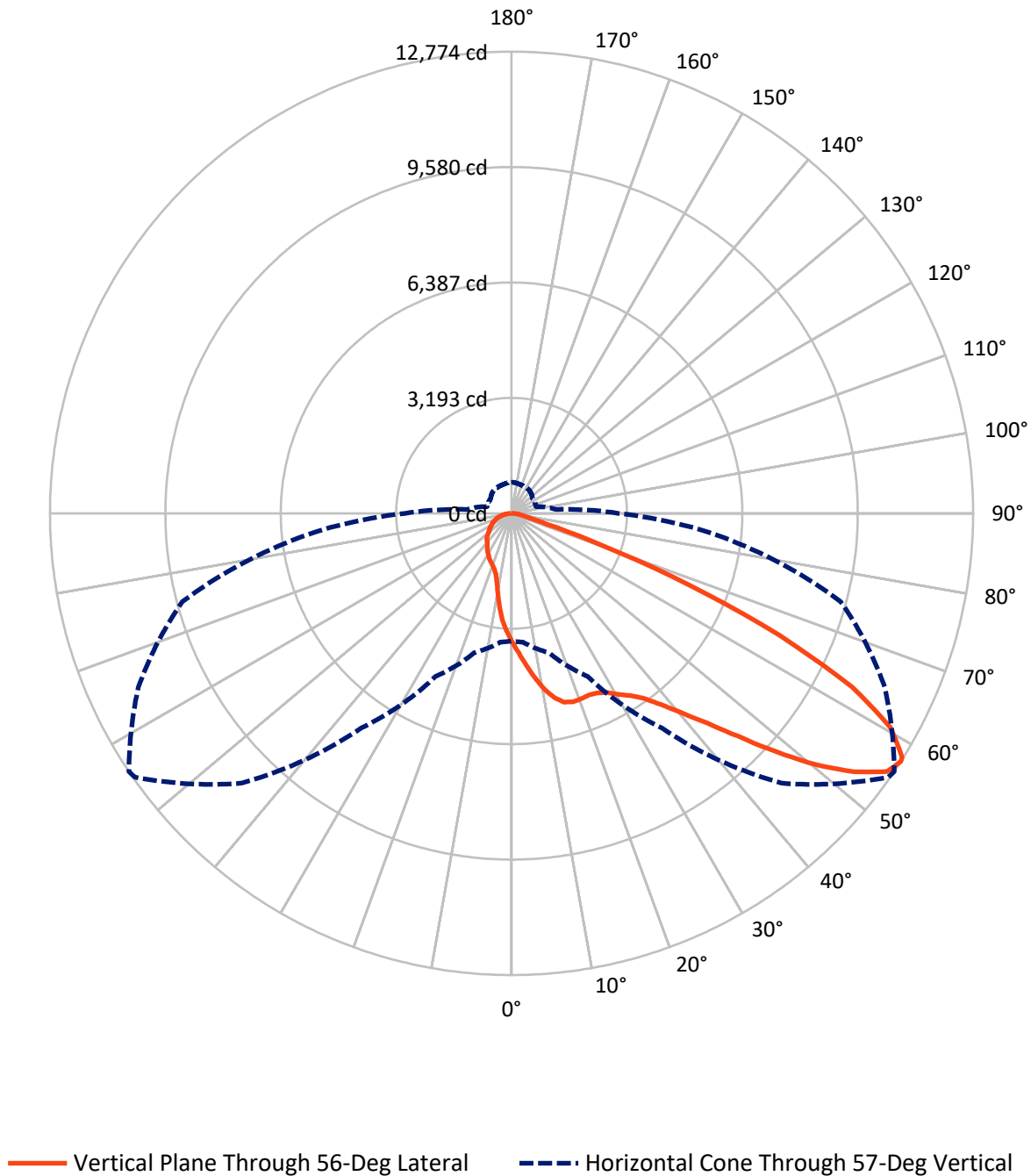


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc

Type II - Short - N/A

REPORT NUMBER: P320868
CATALOG NUMBER: GAN-SA4A-727-U-AFL

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2780.3	0.0	2780.3
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	13348.7	0.0	13348.7
	% Fixture	82.8	0.0	82.8
Total	Lumens	16129.0	0.0	16129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.7	2.1
10°-20°	966.2	6.0
20°-30°	1573.7	9.8
30°-40°	2352.5	14.6
40°-50°	3568.2	22.1
50°-60°	3999.4	24.8
60°-70°	2362.2	14.6
70°-80°	773.9	4.8
80°-90°	191.2	1.2
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°	16129.0	100.0
0°-180°	16129.0	100.0

Coefficient of Utilization



REPORT NUMBER: P320868

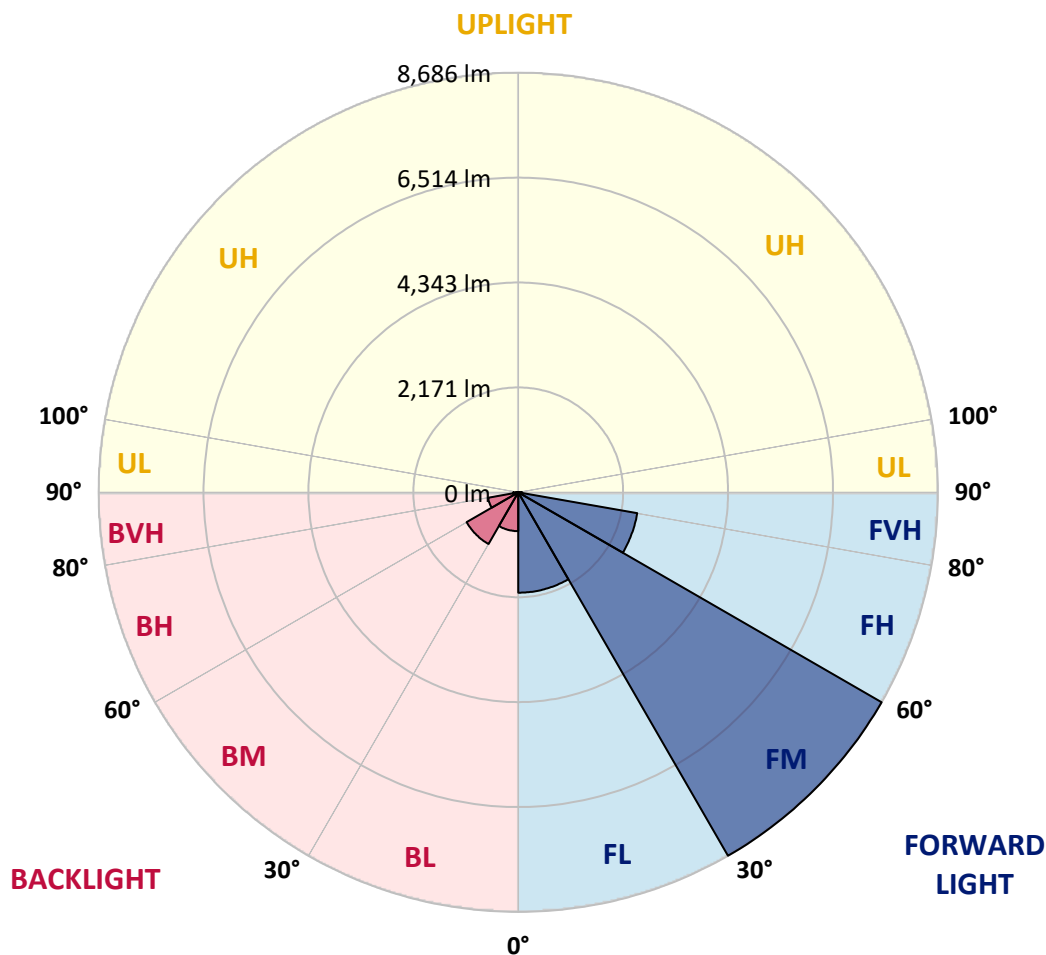
CATALOG NUMBER: GAN-SA4A-727-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2077.7	12.9			
FM	(30°-60°)	8686.0	53.9			
FH	(60°-80°)	2500.9	15.5			G2/5000
FVH	(80°-90°)	84.2	0.5			G1/100
BL	(0°-30°)	803.9	5.0	B2/1000		
BM	(30°-60°)	1234.1	7.7	B2/2500		
BH	(60°-80°)	635.3	3.9	B2/1000		G2/1000
BVH	(80°-90°)	107.0	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P320868

CATALOG NUMBER: GAN-SA4A-727-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3577.4	3577.4	3577.4	3577.4	3577.4	3577.4	3577.4	3577.4	3577.4	3577.4	3577.4
2.5°	4107.9	4145.6	4129.0	4071.3	4027.0	3964.3	3894.5	3873.4	3799.7	3717.1	3617.9
5°	4758.1	4739.2	4712.1	4622.3	4527.5	4417.2	4242.0	4214.3	4050.2	3863.4	3666.1
7.5°	5128.3	5126.7	5110.6	5058.0	4971.5	4827.4	4616.2	4583.5	4335.7	4035.3	3729.3
10°	5074.6	5070.7	5097.3	5152.2	5178.2	5148.3	4970.4	4937.7	4633.4	4225.4	3802.5
12.5°	4769.2	4771.4	4814.1	4929.4	5086.2	5274.7	5245.9	5229.8	4942.1	4440.5	3891.2
15°	4531.4	4536.4	4570.2	4670.5	4855.6	5197.6	5413.3	5418.8	5240.9	4677.7	3994.8
17.5°	4427.2	4437.7	4453.2	4523.6	4693.2	5044.1	5453.2	5483.1	5502.5	4923.8	4094.6
20°	4460.4	4470.4	4474.8	4519.7	4658.9	4951.0	5425.5	5479.2	5703.2	5155.5	4194.4
22.5°	4609.5	4615.6	4618.4	4630.0	4738.1	4977.6	5407.2	5463.7	5848.4	5363.4	4269.7
25°	4856.7	4852.3	4834.6	4819.6	4892.2	5082.9	5449.3	5503.1	5966.4	5551.8	4319.1
27.5°	5152.7	5147.2	5112.8	5071.8	5113.4	5247.0	5570.7	5613.4	6072.3	5728.1	4344.0
30°	5508.0	5493.6	5428.8	5380.0	5396.1	5493.1	5770.8	5809.6	6235.8	5928.2	4368.4
32.5°	5918.8	5903.3	5809.6	5728.6	5728.6	5809.6	5977.0	6009.1	6374.4	6154.3	4407.8
35°	6433.2	6413.8	6291.8	6156.0	6117.8	6158.8	6258.0	6280.7	6623.8	6439.3	4479.3
37.5°	7039.6	7013.5	6855.5	6673.7	6590.0	6587.8	6659.3	6705.9	7022.4	6813.4	4600.7
40°	7647.6	7629.3	7491.3	7348.3	7184.2	7131.6	7241.9	7256.3	7543.4	7277.9	4755.9
42.5°	8117.7	8114.3	8088.8	8107.7	7939.7	7833.3	7919.8	7931.4	8179.7	7780.7	4921.0
45°	8366.0	8371.5	8495.1	8769.0	8831.0	8753.4	8796.1	8799.5	8907.0	8287.8	5072.4
47.5°	8167.0	8195.8	8508.4	9120.9	9629.2	9887.0	9816.0	9857.0	9612.0	8723.5	5191.0
50°	7391.5	7427.0	7959.1	8964.1	10001.7	10983.9	10946.8	10937.4	10180.8	9042.8	5255.3
52.5°	6430.9	6458.7	6897.7	8148.7	9728.5	11590.3	11931.2	11882.4	10686.3	9281.7	5267.5
55°	4968.2	5011.4	5432.1	6521.3	8623.2	11358.6	12655.1	12611.3	11146.9	9407.0	5253.1
57°	3532.0	3577.4	3995.4	4977.0	7254.1	10556.6	12727.2	12773.8	11395.8	9428.0	5269.1
57.5°	3151.7	3198.3	3612.3	4565.7	6827.3	10266.7	12665.1	12742.7	11440.7	9424.7	5278.0
60°	1586.9	1604.7	1868.5	2548.7	4315.7	8300.0	11855.3	12055.4	11481.1	9261.7	5316.3
62.5°	986.6	973.9	965.6	1174.0	2099.7	5504.2	10184.1	10569.3	10706.8	8867.1	5223.7
65°	867.5	843.6	752.2	735.6	927.3	2673.4	7669.2	8148.7	9052.2	8245.2	5003.1
67.5°	814.8	791.5	688.4	626.4	626.9	1059.8	4761.4	5301.3	7051.8	7193.7	4482.6
70°	760.5	739.4	643.0	569.8	533.8	587.0	2190.6	2600.2	4596.8	5654.4	3746.5
72.5°	690.7	676.2	584.8	509.4	471.2	439.6	838.6	990.5	2661.2	3797.5	2601.9
75°	617.5	604.2	526.0	454.0	407.4	345.9	472.3	508.8	1351.9	1942.8	1281.0
77.5°	537.1	529.4	467.8	401.3	364.2	286.6	334.2	352.0	579.8	833.1	642.4
80°	427.4	442.3	409.1	357.5	323.2	229.5	236.7	248.3	337.6	406.9	364.7
82.5°	278.3	304.3	320.4	290.5	266.1	180.7	170.2	175.2	220.1	248.3	158.5
85°	115.8	130.3	210.6	190.1	176.8	131.9	114.2	116.4	136.4	141.3	64.9
87.5°	51.5	54.9	92.6	87.0	74.8	45.5	48.8	53.2	72.6	68.7	24.9
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: P320868

CATALOG NUMBER: GAN-SA4A-727-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3577.4	3577.4	3577.4	3577.4	3577.4	3577.4	3577.4	3577.4	3577.4	3577.4	3577.4
2.5°	3580.8	3534.2	3454.4	3366.2	3294.2	3236.5	3178.3	3138.4	3091.9	3066.9	3054.2
5°	3583.5	3492.1	3324.1	3151.7	2997.6	2856.8	2722.7	2619.6	2523.2	2471.1	2456.6
7.5°	3595.2	3457.7	3186.1	2902.3	2628.5	2378.5	2185.6	2064.8	1977.7	1938.9	1927.8
10°	3604.6	3417.2	3015.4	2595.2	2222.7	1969.4	1819.8	1752.1	1722.2	1717.2	1712.2
12.5°	3626.8	3375.7	2835.8	2274.8	1907.3	1732.2	1680.1	1675.6	1684.0	1696.1	1696.1
15°	3661.7	3334.6	2630.7	1999.9	1706.7	1645.2	1655.7	1680.1	1702.8	1721.6	1724.4
17.5°	3687.2	3284.2	2410.1	1779.8	1599.7	1616.3	1654.0	1688.4	1711.7	1730.0	1731.6
20°	3705.5	3206.0	2174.5	1611.9	1538.2	1589.7	1636.8	1667.3	1683.4	1701.7	1704.5
22.5°	3696.0	3101.3	1965.5	1491.6	1488.3	1550.9	1595.8	1632.4	1620.2	1602.5	1614.1
25°	3650.6	2957.2	1750.5	1401.8	1435.6	1498.8	1554.2	1529.9	1488.8	1481.1	1485.5
27.5°	3569.7	2773.1	1551.5	1318.7	1374.7	1450.6	1447.3	1422.9	1408.5	1398.5	1404.6
30°	3482.6	2573.6	1377.4	1246.1	1307.0	1369.7	1356.9	1356.4	1342.0	1325.9	1333.6
32.5°	3396.7	2372.9	1239.4	1186.2	1256.0	1264.3	1292.1	1300.4	1272.1	1238.3	1236.1
35°	3321.9	2183.4	1134.6	1131.9	1194.5	1195.6	1236.1	1224.4	1154.0	1119.1	1119.1
37.5°	3265.9	1994.4	1054.8	1083.1	1113.6	1142.4	1162.9	1114.7	1103.0	1083.6	1083.1
40°	3241.5	1828.1	1004.9	1046.0	1056.5	1093.1	1040.4	1059.3	1064.8	1054.8	1054.8
42.5°	3216.0	1683.4	961.7	1017.7	1016.0	1011.0	984.4	1008.8	1031.0	1031.5	1029.9
45°	3190.5	1558.7	923.5	957.3	980.5	926.8	931.8	957.8	988.9	1000.0	1000.0
47.5°	3162.3	1460.0	888.5	893.5	929.6	893.5	889.6	909.6	946.2	963.9	967.8
50°	3100.2	1371.3	848.6	837.5	847.5	859.7	863.0	872.5	912.9	941.2	947.8
52.5°	3014.3	1292.1	797.6	786.0	786.0	832.0	847.5	850.3	884.7	918.5	925.1
55°	2942.8	1241.6	745.0	742.8	740.5	802.6	829.2	833.7	857.5	884.1	887.4
57°	2947.7	1237.7	704.5	706.7	706.2	772.7	812.0	821.5	833.7	856.4	860.3
57.5°	2950.5	1240.5	695.6	696.8	696.2	764.4	807.1	817.6	827.0	850.8	854.7
60°	2992.1	1247.7	659.6	647.4	650.2	720.0	778.8	792.1	798.2	829.8	834.8
62.5°	2930.6	1215.6	630.8	601.4	601.4	673.5	739.4	760.5	769.9	812.6	820.9
65°	2752.1	1125.2	597.0	549.3	554.9	626.9	692.3	726.7	741.1	794.3	803.2
67.5°	2476.6	1020.5	560.9	502.7	508.3	578.1	643.5	680.7	703.4	774.4	781.6
70°	2118.0	892.4	512.2	453.4	460.1	524.9	585.9	628.0	661.8	755.5	757.7
72.5°	1561.5	731.7	444.0	399.1	406.3	462.8	527.7	576.5	621.9	708.4	707.3
75°	928.4	572.0	368.6	344.2	349.2	401.9	475.0	534.3	602.5	690.1	700.6
77.5°	563.2	430.7	300.4	288.2	294.3	348.1	437.3	500.5	594.2	650.7	647.4
80°	340.3	307.6	240.0	232.3	238.3	297.7	404.6	475.0	519.4	556.0	556.0
82.5°	177.9	187.9	176.3	170.2	178.5	241.7	368.1	414.6	459.0	394.1	368.1
85°	72.6	98.1	107.0	106.4	111.4	167.4	317.6	354.7	296.0	281.0	287.7
87.5°	24.4	41.6	52.1	44.9	47.1	105.3	220.1	171.3	203.4	141.9	134.7
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)