

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: P318072

Luminaire Tested: **GAN-SA8A-740-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36651 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

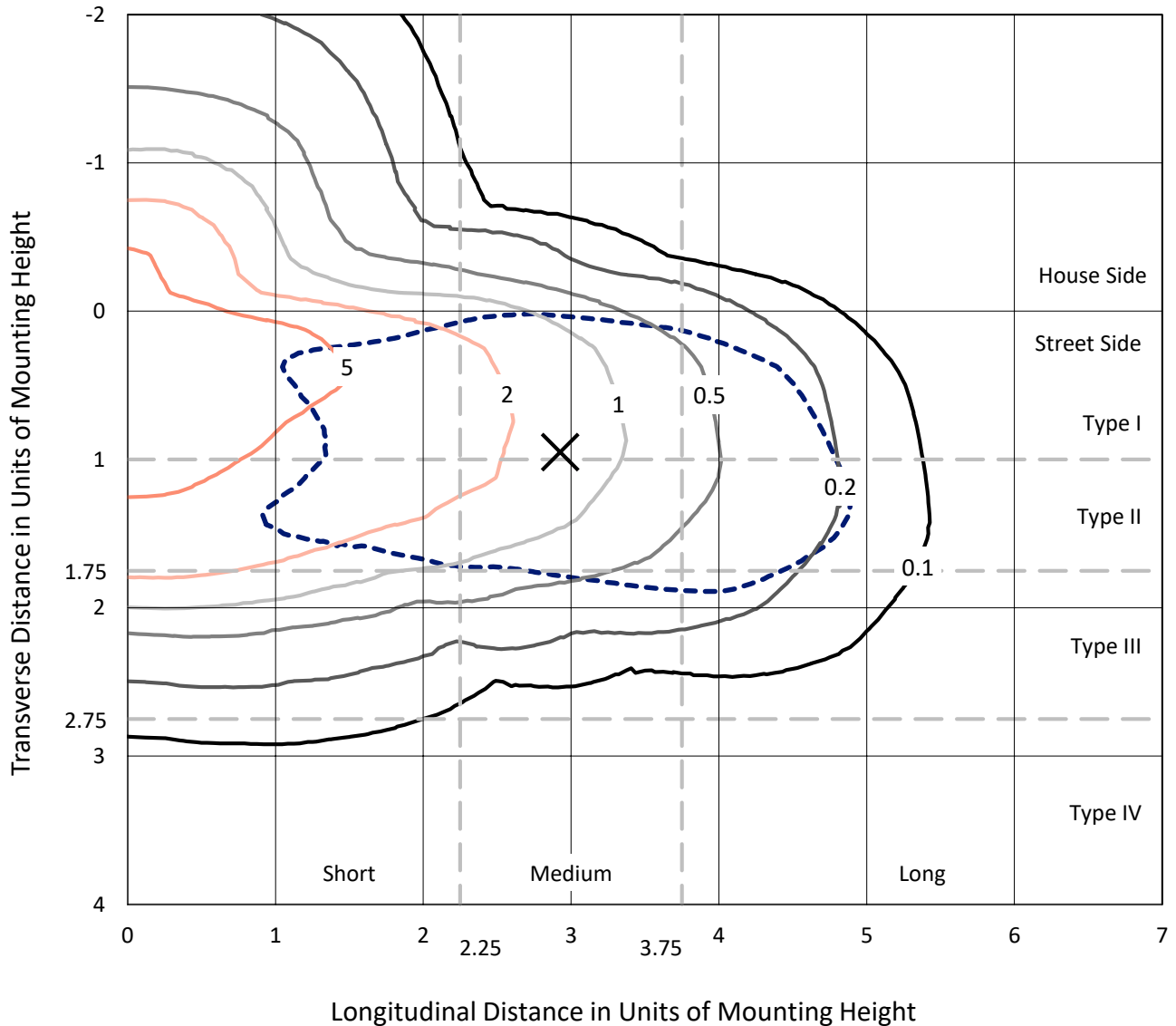
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

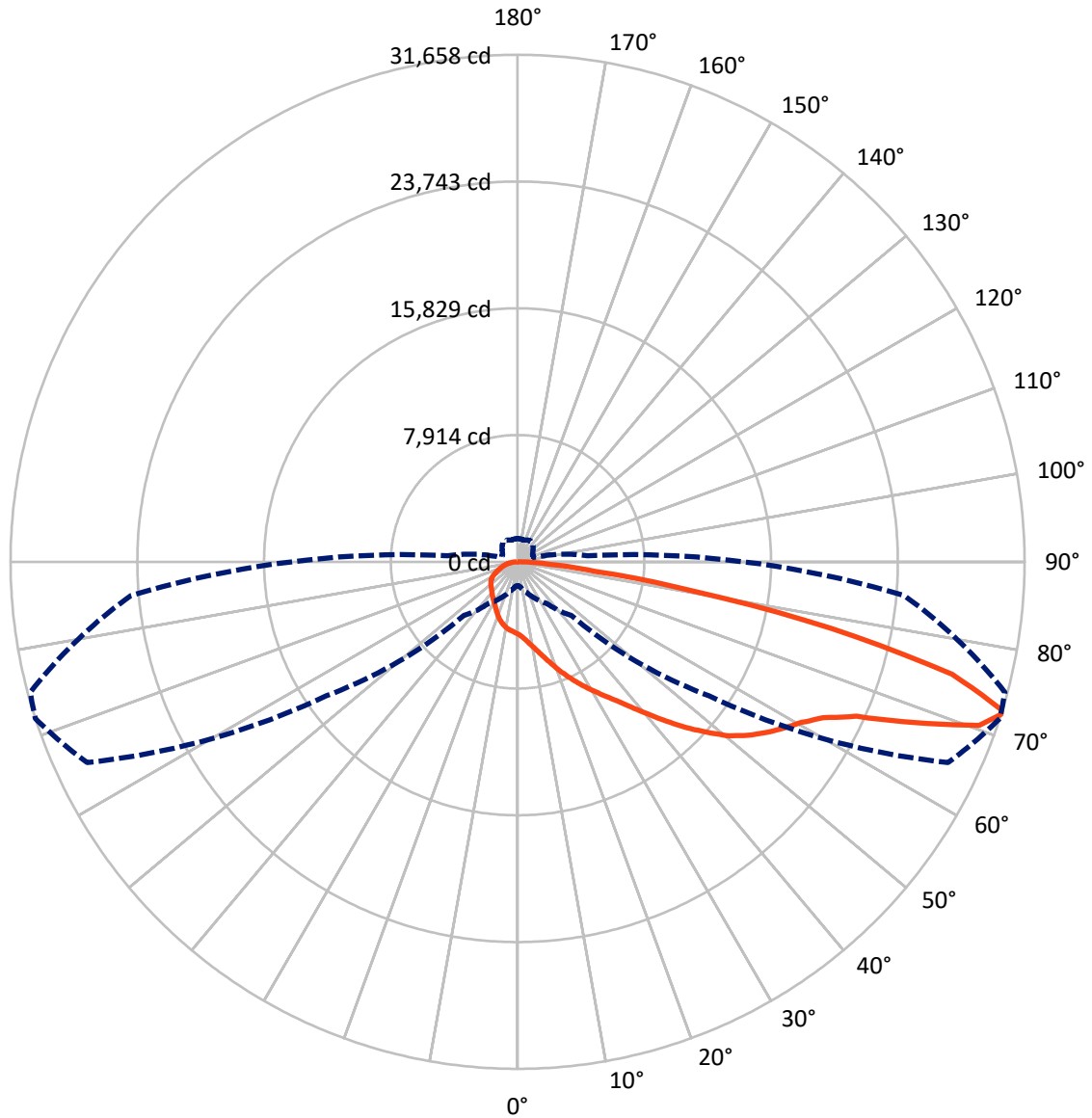
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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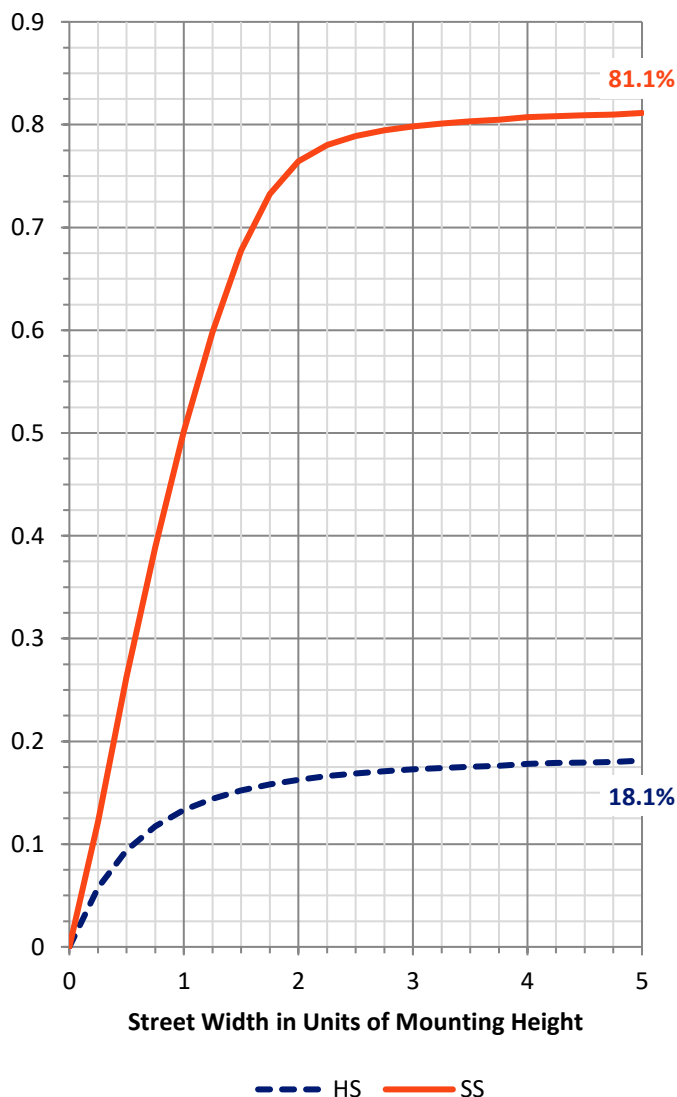
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6799.0	0.0	6799.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	29852.0	0.0	29852.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	36651.0	0.0	36651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.8	1.2
10°-20°	1460.1	4.0
20°-30°	2558.5	7.0
30°-40°	3793.4	10.4
40°-50°	5548.2	15.1
50°-60°	7634.3	20.8
60°-70°	8499.2	23.2
70°-80°	5759.0	15.7
80°-90°	946.5	2.6
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°	36651.0	100.0
0°-180°	36651.0	100.0

Coefficient of Utilization

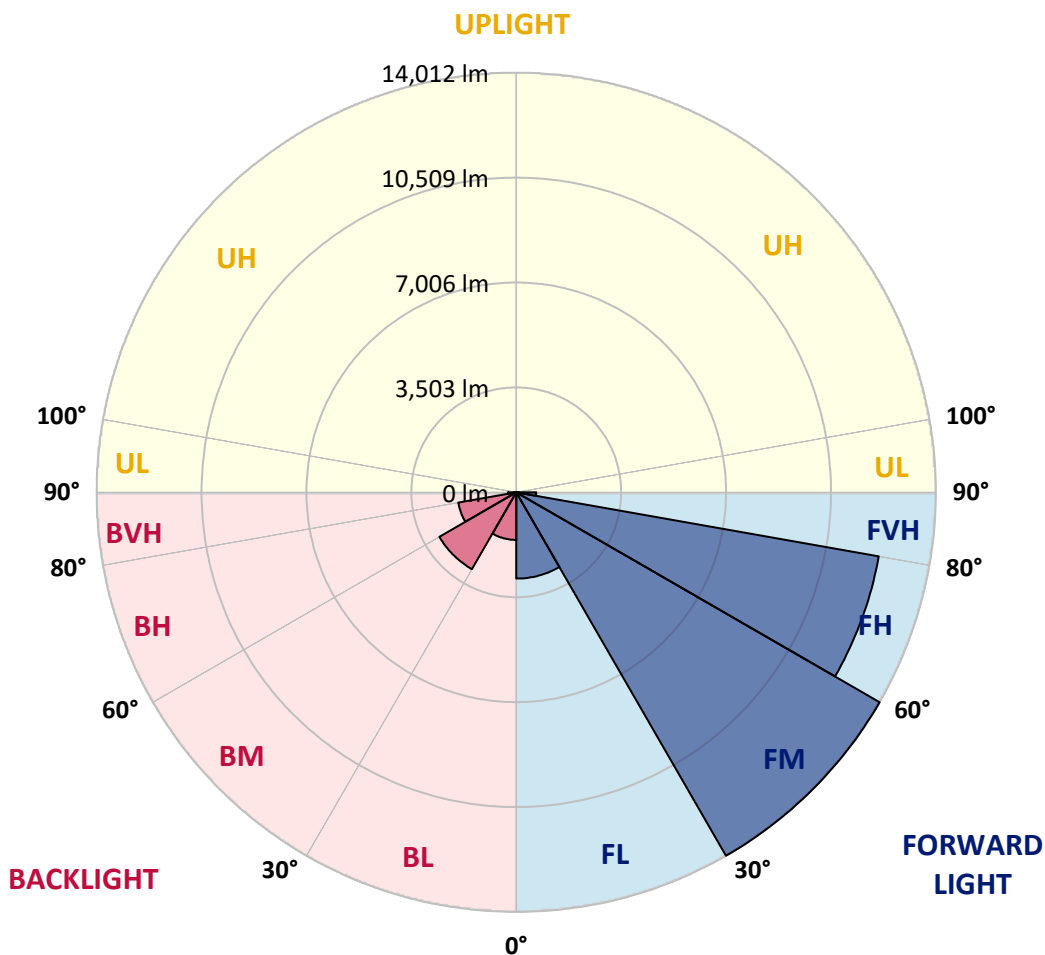


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2881.0	7.9			
FM (30°-60°)	14012.1	38.2			
FH (60°-80°)	12291.2	33.5			G5
FVH (80°-90°)	667.7	1.8			G4/750
BL (0°-30°)	1589.4	4.3	B3/2500		
BM (30°-60°)	2963.7	8.1	B3/5000		
BH (60°-80°)	1967.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	278.9	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-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0
2.5°	4981.0	4973.4	4946.9	4946.9	4896.5	4853.5	4772.8	4718.5	4654.2	4631.4	4555.7
5°	5463.1	5465.6	5432.8	5410.1	5335.6	5244.8	5107.2	4982.3	4857.3	4806.9	4651.6
7.5°	5868.2	5863.1	5854.3	5835.4	5766.0	5672.6	5487.1	5301.5	5117.3	5041.6	4774.0
10°	6128.1	6139.5	6147.1	6155.9	6126.9	6060.0	5884.6	5658.7	5417.6	5314.2	4920.4
12.5°	6259.4	6279.6	6314.9	6375.5	6423.4	6415.9	6288.4	6048.6	5762.2	5632.2	5103.4
15°	6336.4	6362.9	6418.4	6526.9	6662.0	6738.9	6704.9	6487.8	6168.5	6008.3	5326.8
17.5°	6384.3	6405.8	6491.6	6636.7	6837.4	7041.8	7131.4	6949.7	6627.9	6444.9	5583.0
20°	6417.1	6433.5	6540.8	6711.2	6971.1	7296.7	7546.6	7501.2	7133.9	6896.7	5850.5
22.5°	6490.3	6504.2	6606.4	6778.1	7065.8	7486.0	7946.6	8014.8	7667.7	7398.9	6137.0
25°	6694.8	6694.8	6780.6	6900.5	7170.5	7650.1	8284.9	8586.5	8212.9	7900.0	6402.0
27.5°	7084.7	7080.9	7112.5	7154.1	7358.6	7816.7	8586.5	9091.3	8778.3	8436.3	6659.4
30°	7546.6	7571.8	7575.6	7555.4	7651.3	8024.9	8865.4	9623.8	9347.4	8978.9	6923.2
32.5°	8141.0	8157.4	8138.5	8071.6	8057.7	8320.2	9139.2	10181.6	9963.3	9545.6	7164.2
35°	8895.6	8864.1	8804.8	8668.5	8538.5	8715.2	9452.2	10739.4	10654.8	10230.8	7496.1
37.5°	9704.6	9705.8	9632.6	9323.5	9144.3	9220.0	9883.8	11371.6	11491.5	11046.0	7921.4
40°	10353.2	10387.3	10432.7	10026.4	9794.2	9898.9	10432.7	12104.8	12480.9	12012.7	8475.4
42.5°	10806.3	10845.4	10974.1	10719.2	10478.2	10672.5	11078.9	12887.3	13591.4	13128.3	9124.1
45°	11285.8	11307.3	11398.1	11288.3	11134.4	11572.3	11807.0	13697.5	14766.3	14317.1	9849.7
47.5°	11790.6	11813.3	11906.7	11833.5	11752.8	12412.8	12566.7	14460.9	15892.0	15623.2	10624.5
50°	12414.0	12429.2	12517.5	12385.0	12410.2	13046.3	13245.7	15161.3	17072.0	16796.9	11401.9
52.5°	13264.6	13268.4	13390.8	13270.9	13152.3	13510.7	13830.0	15821.4	17997.0	17867.0	12179.3
55°	13930.9	13971.3	14372.6	14347.4	14279.2	13932.2	14318.3	16449.8	18822.3	18884.2	13004.6
57.5°	13505.6	13663.4	14476.1	15049.0	15606.8	14980.9	14978.4	17157.8	19589.6	19882.4	13912.0
60°	11828.5	12043.0	13240.6	14511.4	16256.7	16805.7	16348.9	18022.2	20364.5	20871.8	15049.0
62.5°	8447.6	8801.0	10423.9	12453.1	15365.8	18014.7	19137.8	19394.0	21418.2	22017.6	16526.8
65°	4270.5	4538.1	5898.5	8342.9	12276.5	17224.7	22169.1	22397.5	23249.3	23781.9	18802.1
67.5°	2594.6	2695.6	3359.4	4640.3	7526.4	13417.3	23158.5	27403.7	26792.9	27075.6	22046.7
70°	1911.9	1986.3	2400.3	3081.7	4328.6	7873.4	20122.2	30976.4	30575.1	30543.5	24444.4
72°	1489.1	1543.4	1909.4	2489.9	3165.0	4723.6	14584.6	29657.6	31657.9	31498.8	24224.8
72.5°	1412.1	1460.1	1793.3	2343.5	2990.9	4281.9	13113.2	28767.9	31579.6	31507.7	23940.9
75°	1111.8	1145.9	1327.6	1812.2	2341.0	2429.3	7185.7	22294.0	28014.5	29179.3	21533.0
77.5°	920.0	925.0	1020.9	1318.8	1824.8	1717.5	3529.7	15468.0	20060.3	21341.2	15253.5
80°	749.6	755.9	801.4	925.0	1380.6	1270.8	1675.9	8894.4	11231.6	11245.4	7253.8
82.5°	596.9	598.2	648.7	676.4	991.9	908.6	960.4	4175.9	4907.8	4721.0	2607.2
85°	420.2	411.4	633.5	555.3	648.7	583.0	530.0	1653.2	2029.3	1940.9	816.5
87.5°	140.1	145.1	281.4	359.7	378.6	330.6	236.0	633.5	766.0	759.7	258.7
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°	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0
2.5°	4531.7	4491.4	4432.0	4366.4	4314.7	4261.7	4222.6	4202.4	4179.7	4160.7	4183.4
5°	4579.7	4504.0	4377.8	4254.1	4163.2	4082.5	4024.4	3994.1	3966.4	3947.5	3950.0
7.5°	4657.9	4535.5	4323.5	4143.1	4016.9	3929.8	3870.5	3850.3	3832.6	3827.6	3833.9
10°	4741.2	4560.8	4251.6	4011.8	3867.9	3796.0	3769.5	3783.4	3796.0	3807.4	3820.0
12.5°	4835.9	4583.5	4146.8	3857.9	3735.4	3707.7	3734.2	3794.8	3838.9	3865.4	3881.8
15°	4959.6	4603.7	4025.7	3703.9	3621.9	3653.4	3743.0	3847.8	3924.7	3974.0	3981.5
17.5°	5073.1	4602.4	3870.5	3548.7	3529.7	3621.9	3756.9	3904.5	4008.0	4077.4	4091.3
20°	5190.5	4568.3	3690.0	3397.2	3436.4	3587.8	3763.2	3941.1	4066.1	4146.8	4165.8
22.5°	5300.3	4509.0	3491.9	3259.7	3358.1	3542.4	3739.2	3919.7	4044.6	4110.2	4130.4
25°	5374.7	4405.5	3291.2	3143.6	3288.7	3486.8	3661.0	3806.1	3899.5	3932.3	3937.4
27.5°	5412.6	4270.5	3101.9	3042.6	3216.8	3396.0	3515.9	3587.8	3614.3	3611.8	3606.7
30°	5417.6	4092.6	2939.1	2960.6	3133.5	3262.2	3319.0	3305.1	3271.0	3213.0	3218.0
32.5°	5401.2	3891.9	2802.8	2882.3	3027.5	3099.4	3101.9	3035.0	2944.2	2852.1	2826.8
35°	5406.3	3695.1	2683.0	2794.0	2898.8	2930.3	2901.3	2802.8	2679.2	2560.5	2535.3
37.5°	5461.8	3523.4	2579.5	2691.8	2756.1	2763.7	2722.1	2618.6	2527.7	2411.6	2401.5
40°	5594.3	3401.0	2481.0	2576.9	2613.5	2617.3	2558.0	2484.8	2492.4	2430.6	2429.3
42.5°	5832.8	3348.0	2394.0	2457.1	2479.8	2487.3	2441.9	2395.2	2460.8	2420.5	2406.6
45°	6140.8	3360.6	2320.8	2339.7	2381.3	2416.7	2388.9	2332.1	2357.4	2182.0	2123.9
47.5°	6496.6	3441.4	2262.7	2238.7	2310.7	2377.6	2334.6	2248.8	2159.2	1985.1	1952.3
50°	6913.1	3566.3	2209.7	2139.0	2233.7	2324.6	2281.6	2159.2	2024.2	1939.7	1928.3
52.5°	7347.2	3719.0	2156.7	2029.3	2136.5	2284.2	2262.7	2139.0	1972.5	1889.2	1874.0
55°	7839.4	3873.0	2089.8	1901.8	2031.8	2265.2	2253.9	2065.8	1933.3	1886.6	1875.3
57.5°	8451.4	4048.4	2001.5	1769.3	1933.3	2197.1	2161.8	2021.7	1893.0	1857.6	1853.8
60°	9249.0	4307.1	1874.0	1627.9	1813.5	2092.4	2084.8	1957.3	1828.6	1803.4	1798.3
62.5°	10445.3	4734.9	1698.6	1486.6	1679.7	1914.4	1983.8	1870.2	1760.5	1759.2	1761.7
65°	12300.4	5378.5	1508.1	1362.9	1544.7	1764.2	1866.5	1780.6	1691.0	1716.3	1720.1
67.5°	14450.9	5912.3	1321.3	1241.8	1407.1	1621.6	1760.5	1691.0	1598.9	1664.5	1665.8
70°	15166.4	5435.3	1157.2	1121.9	1264.5	1484.1	1645.6	1592.6	1499.2	1564.8	1558.5
72°	14113.9	4387.9	1051.2	1031.0	1157.2	1370.5	1543.4	1500.5	1408.4	1452.5	1436.1
72.5°	13782.0	4183.4	1024.7	1008.3	1128.2	1341.5	1516.9	1477.8	1385.6	1423.5	1408.4
75°	12294.1	3633.2	880.9	884.6	984.3	1200.1	1368.0	1355.4	1260.7	1264.5	1259.4
77.5°	8917.1	2664.0	742.0	767.3	838.0	1055.0	1217.8	1210.2	1106.8	1087.8	1084.0
80°	4138.0	1359.1	604.5	615.8	689.0	882.1	1038.6	1028.5	945.2	921.2	907.4
82.5°	1417.2	646.1	454.3	461.9	533.8	710.5	901.0	894.7	825.3	778.6	749.6
85°	506.1	321.8	318.0	310.4	381.1	559.1	784.9	750.9	648.7	552.7	550.2
87.5°	164.1	137.6	164.1	162.8	222.1	378.6	570.4	485.9	470.7	391.2	383.6
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)