

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: P383625

Luminaire Tested: **GAN-SA9A-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40432.9 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

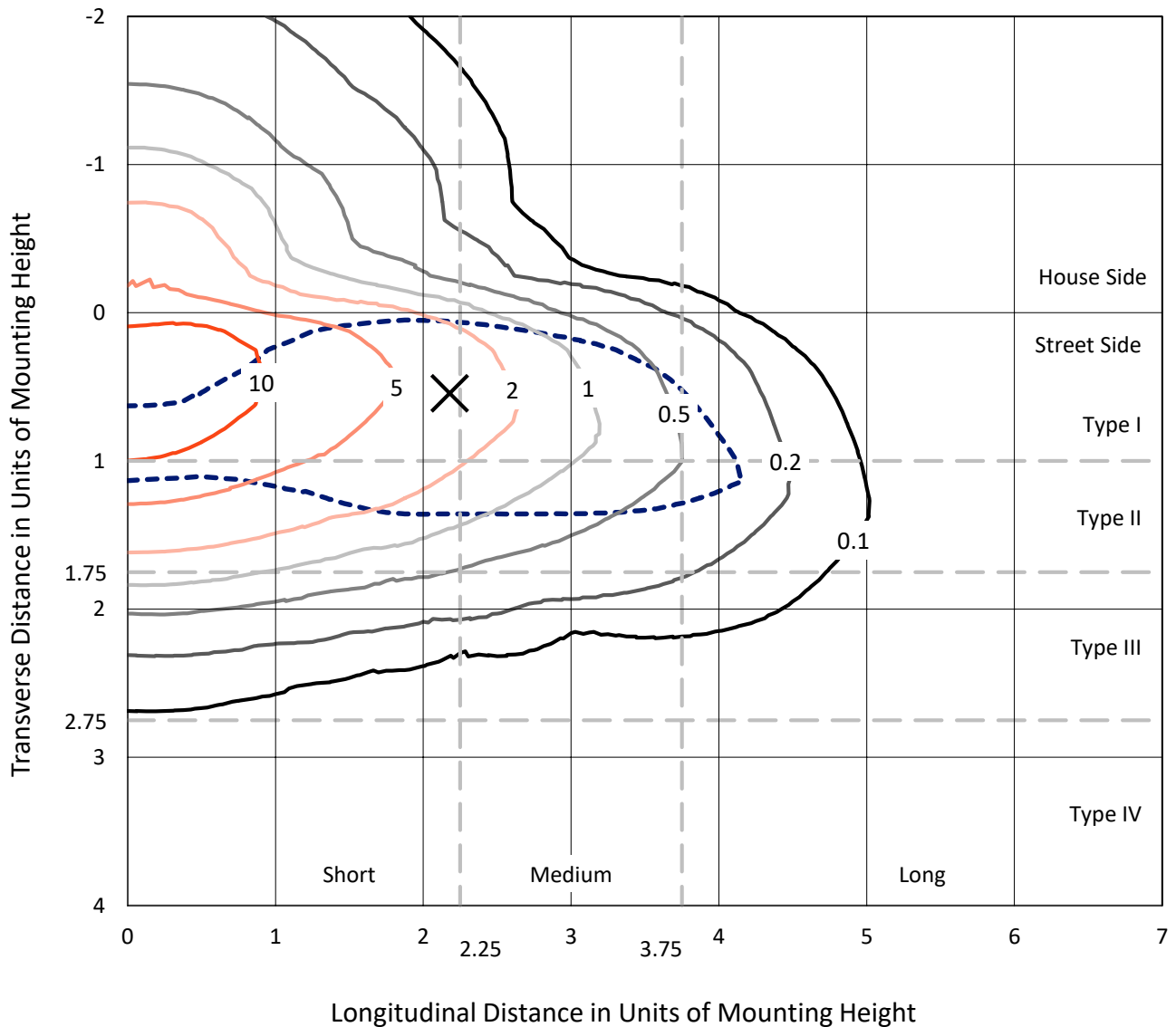
Input Watts (W): 290
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

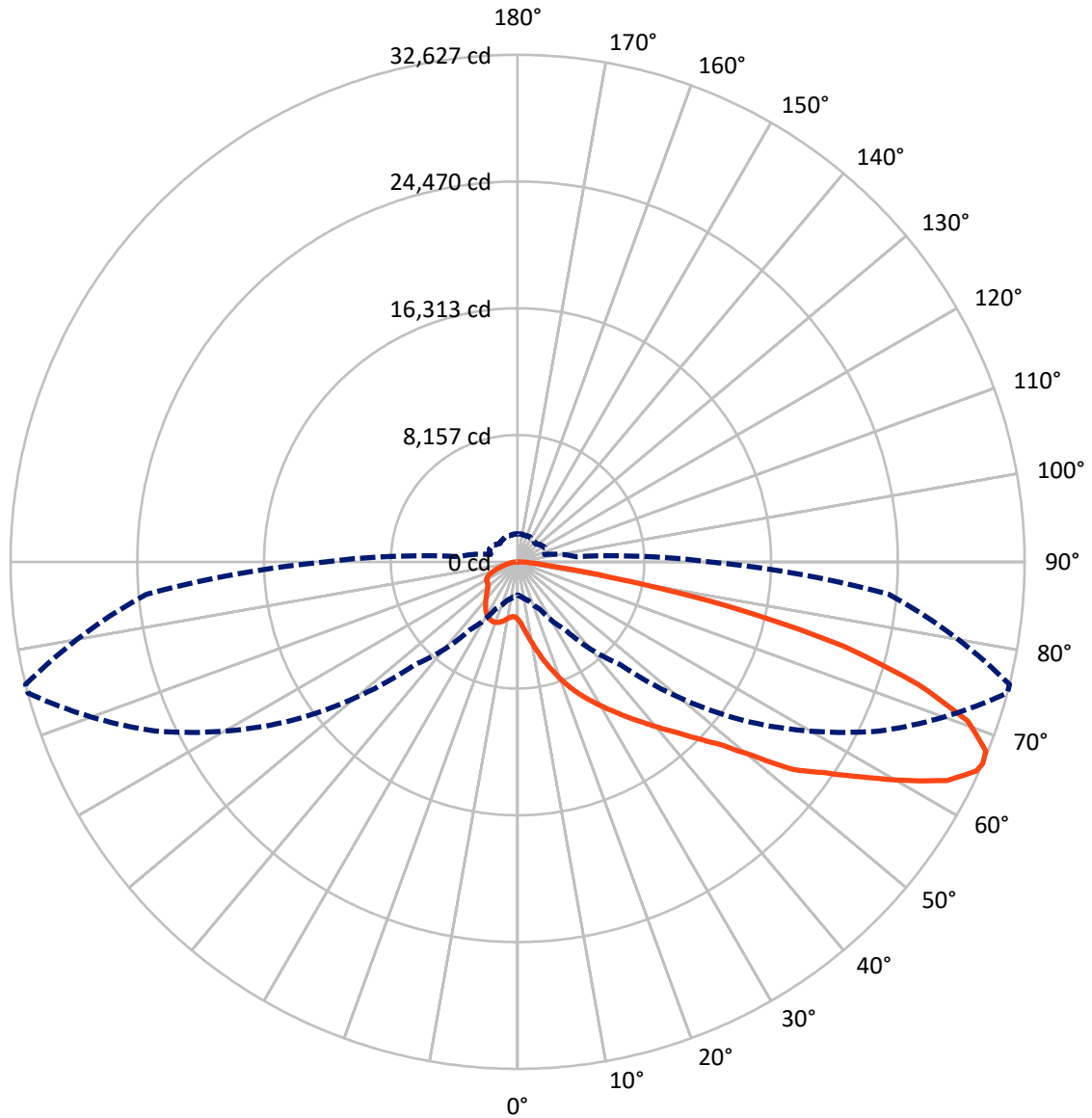
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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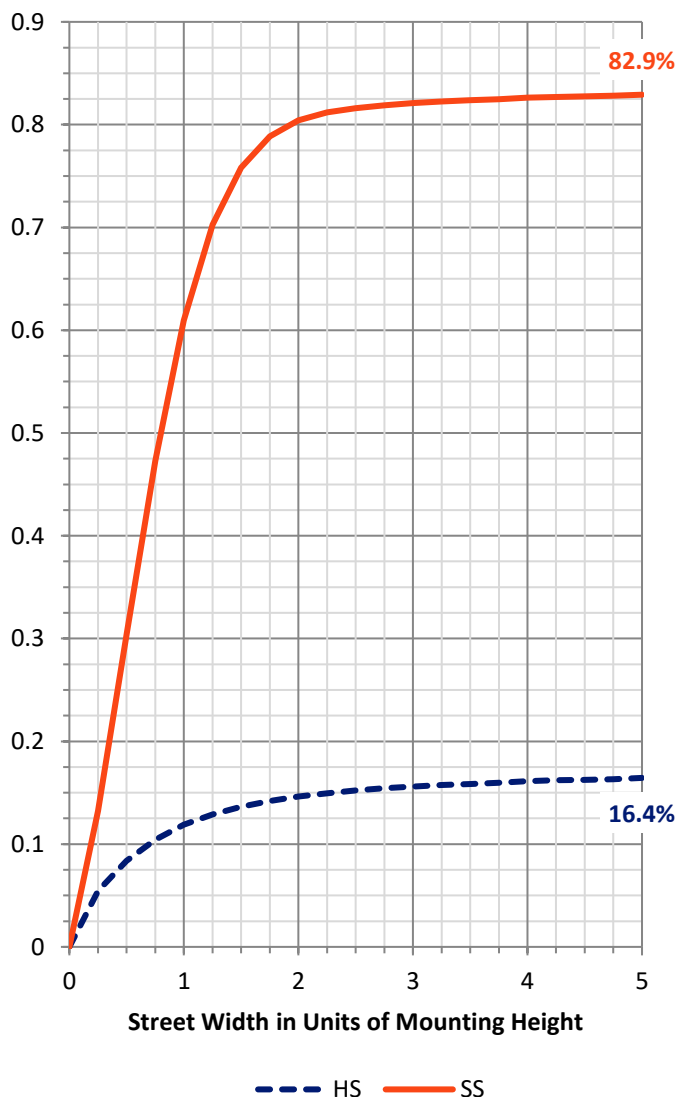
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6803.5	0.0	6803.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	33629.4	0.0	33629.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	40432.9	0.0	40432.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.5	1.1
10°-20°	1763.3	4.4
20°-30°	3426.4	8.5
30°-40°	5592.7	13.8
40°-50°	7641.0	18.9
50°-60°	8900.2	22.0
60°-70°	7979.2	19.7
70°-80°	4032.4	10.0
80°-90°	651.2	1.6
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°	40432.9	100.0
0°-180°	40432.9	100.0

Coefficient of Utilization

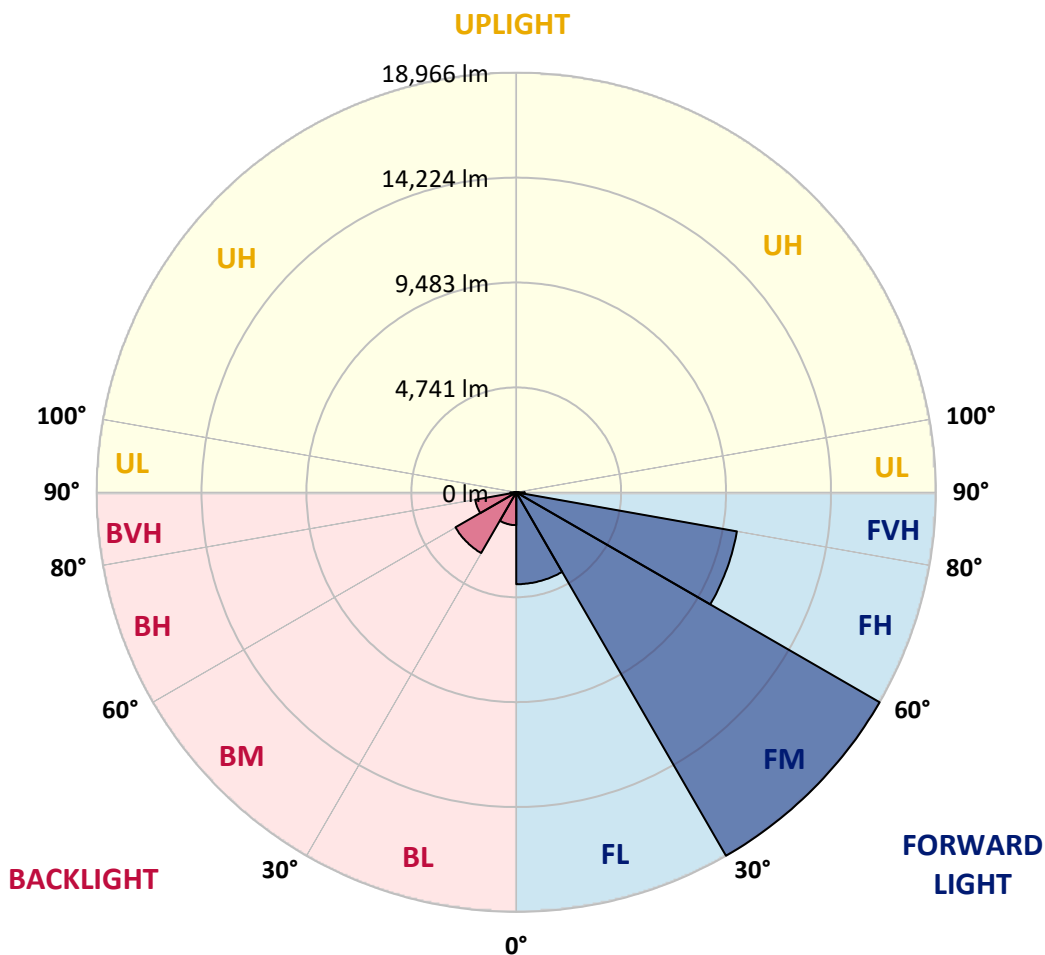


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4152.3	10.3			
FM (30°-60°)	18965.8	46.9			
FH (60°-80°)	10126.7	25.0			G4/12000
FVH (80°-90°)	384.6	1.0			G3/500
BL (0°-30°)	1483.9	3.7	B3/2500		
BM (30°-60°)	3168.1	7.8	B3/5000		
BH (60°-80°)	1884.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	266.6	0.7			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5
2.5°	4901.7	4827.7	4820.8	4712.3	4687.6	4480.4	4328.0	4168.8	3987.6	3951.9	3809.1
5°	6296.3	6289.5	6194.8	6017.7	5879.1	5524.9	5174.9	4804.3	4398.0	4332.1	4010.9
7.5°	7550.9	7539.9	7467.2	7276.4	7076.0	6640.9	6141.2	5573.0	4914.1	4816.7	4284.1
10°	8503.5	8499.4	8474.8	8334.7	8164.5	7747.2	7195.5	6419.9	5513.9	5380.8	4625.9
12.5°	9239.4	9247.6	9264.1	9214.6	9133.6	8778.1	8212.6	7317.6	6153.6	6021.8	5006.0
15°	9737.6	9762.3	9847.4	9917.4	9959.9	9741.8	9194.0	8235.9	6870.2	6712.3	5427.5
17.5°	9988.8	10016.3	10163.1	10374.6	10569.4	10547.4	10112.3	9111.7	7557.8	7405.4	5880.5
20°	10205.7	10226.3	10390.9	10644.9	10989.5	11141.8	10897.5	9954.5	8311.5	8130.2	6360.9
22.5°	10834.4	10860.4	10909.8	11053.9	11358.7	11638.8	11520.6	10752.0	9001.8	8833.0	6816.6
25°	12047.8	12079.4	11972.2	11850.1	11907.8	12102.7	12124.7	11479.5	9701.9	9511.1	7306.6
27.5°	13509.7	13554.9	13372.4	13058.1	12783.5	12708.0	12681.9	12075.2	10370.4	10149.4	7791.2
30°	14941.3	15019.5	14782.1	14374.4	13870.7	13516.5	13254.3	12658.6	11029.2	10817.9	8248.3
32.5°	16340.1	16308.5	15963.9	15565.9	14975.7	14532.2	13898.1	13284.5	11770.5	11527.5	8702.6
35°	17298.2	17309.2	16989.3	16517.1	15954.3	15613.9	14760.1	13959.9	12526.8	12303.0	9218.7
37.5°	18113.5	18062.7	17700.3	17259.7	16775.2	16629.7	15769.1	14703.8	13346.3	13101.9	9767.8
40°	18385.3	18326.2	18088.8	17771.7	17383.2	17370.9	16882.3	15546.7	14272.8	14031.2	10386.8
42.5°	18220.6	18145.1	18047.6	17961.2	17841.7	17896.6	17928.2	16535.0	15291.4	15020.9	11103.4
45°	17612.5	17498.6	17567.2	17755.3	18014.7	18324.9	18872.6	17629.0	16432.0	16205.6	11944.9
47.5°	16677.7	16574.7	16788.9	17191.1	17896.6	18681.8	19766.2	18836.9	17793.7	17568.6	13143.1
50°	15362.7	15392.9	15699.0	16430.6	17497.2	18846.5	20867.0	20436.0	19773.0	19563.1	14778.0
52.5°	13204.9	13210.4	14072.4	15273.5	16788.9	18761.4	21477.9	22479.9	22475.8	22221.9	16334.6
55°	11200.8	11323.1	12005.2	13601.6	15641.3	18421.0	21904.8	23473.7	24250.6	23952.8	17785.5
57.5°	9243.5	9314.8	9961.3	11564.6	14003.8	17513.7	22342.7	24666.5	26295.9	26107.8	19589.1
60°	7017.0	7126.8	7795.3	9276.4	11909.1	15903.6	22383.9	25911.6	28740.6	28551.2	21602.8
62.5°	4554.4	4743.9	5369.8	6757.5	9375.2	13587.9	21428.5	26725.5	31057.6	30990.4	23390.0
65°	2617.6	2760.4	3195.6	4266.2	6467.9	10680.6	19156.7	26412.5	32483.8	32445.4	24058.5
66°	2138.6	2227.8	2561.4	3334.2	5336.8	9379.4	17836.2	25752.4	32625.2	32626.6	23981.6
67.5°	1710.3	1750.1	1899.7	2387.0	3938.1	7434.3	15476.6	24296.0	32449.5	32497.5	23486.1
70°	1415.2	1435.8	1482.5	1600.5	2149.5	4483.1	10985.4	20511.6	30685.6	30722.7	21552.0
72.5°	1269.7	1282.1	1299.9	1316.4	1516.7	2505.1	6709.6	16408.7	26904.0	26952.0	18605.0
75°	1150.3	1157.2	1154.4	1155.8	1272.5	1596.4	3467.3	12251.0	21753.8	21657.7	14252.2
77.5°	1010.3	1017.2	1003.4	1006.2	1125.6	1227.1	1725.4	8576.3	14680.5	14002.5	8030.0
80°	853.8	859.3	853.8	863.4	980.1	926.5	1003.4	4824.9	6491.3	6139.8	2855.1
82.5°	645.2	668.5	685.0	723.3	807.1	658.9	671.3	1879.1	1976.7	1881.9	875.7
85°	282.7	344.6	516.1	553.2	606.7	395.3	440.6	765.9	804.4	779.7	318.5
87.5°	74.2	81.0	255.3	321.2	336.3	178.5	229.3	348.7	367.9	348.7	105.7
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°	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5
2.5°	3733.6	3666.4	3545.6	3438.5	3357.5	3302.6	3247.7	3220.3	3203.8	3187.3	3190.1
5°	3853.1	3717.2	3509.9	3363.0	3280.6	3228.5	3201.0	3190.1	3183.2	3166.7	3166.7
7.5°	4032.9	3840.7	3555.2	3404.2	3339.7	3299.8	3283.4	3277.9	3269.6	3250.4	3253.2
10°	4259.3	3990.3	3649.9	3503.0	3444.0	3400.1	3376.8	3368.5	3353.4	3331.4	3334.2
12.5°	4525.6	4175.6	3774.8	3621.0	3549.7	3490.7	3452.2	3428.8	3402.9	3374.0	3375.4
15°	4816.7	4377.3	3909.3	3726.7	3629.3	3547.0	3485.2	3445.3	3404.2	3368.5	3367.1
17.5°	5111.8	4572.3	4012.3	3784.4	3652.6	3544.2	3460.4	3398.7	3347.9	3304.0	3299.8
20°	5430.2	4748.0	4069.9	3778.9	3608.7	3479.7	3368.5	3291.6	3235.4	3191.4	3184.6
22.5°	5754.2	4912.7	4079.5	3722.7	3511.3	3353.4	3236.8	3151.6	3093.9	3048.7	3032.2
25°	6050.7	5040.4	4039.7	3614.2	3375.4	3205.2	3091.2	3004.7	2958.0	2904.6	2888.1
27.5°	6321.1	5129.6	3960.1	3475.5	3223.0	3055.6	2948.4	2874.3	2823.5	2782.3	2768.7
30°	6564.1	5177.6	3829.7	3310.8	3066.5	2914.2	2823.5	2772.8	2728.9	2676.7	2667.0
32.5°	6794.6	5177.6	3662.2	3131.0	2911.4	2789.2	2735.7	2704.1	2654.7	2604.0	2590.2
35°	7025.3	5146.1	3464.6	2942.9	2768.7	2700.0	2697.3	2660.2	2584.7	2516.1	2498.2
37.5°	7268.2	5081.6	3242.3	2767.3	2651.9	2660.2	2683.5	2601.2	2494.1	2396.7	2370.6
40°	7542.7	4992.3	3011.6	2614.9	2554.5	2642.3	2646.4	2516.1	2307.4	2218.2	2194.9
42.5°	7865.3	4903.1	2797.4	2480.3	2477.6	2588.9	2576.5	2332.1	2207.2	2161.9	2149.5
45°	8289.5	4852.3	2594.3	2352.7	2417.3	2502.3	2457.0	2230.6	2178.4	2152.3	2141.3
47.5°	8957.9	4878.4	2407.7	2251.2	2356.8	2415.9	2234.7	2189.4	2152.3	2120.8	2109.8
50°	9795.2	4863.3	2256.7	2181.1	2288.3	2325.2	2134.5	2135.9	2116.7	2081.0	2064.5
52.5°	10425.3	4745.3	2159.1	2141.3	2227.8	2164.6	2071.3	2083.7	2074.1	2021.9	2004.0
55°	11033.3	4643.7	2109.8	2126.3	2183.9	1964.3	1997.2	2027.4	2017.8	1967.1	1958.8
57.5°	11789.7	4624.5	2079.6	2130.4	2146.8	1864.0	1925.8	1965.7	1958.8	1936.8	1932.7
60°	12716.3	4630.0	2052.1	2137.2	2105.7	1790.0	1858.5	1909.4	1913.5	1909.4	1906.6
62.5°	13225.5	4480.4	1983.5	2118.0	2032.9	1725.4	1788.6	1862.7	1864.0	1872.3	1870.9
65°	12793.1	4032.9	1855.8	2050.7	1910.7	1671.8	1728.2	1809.2	1788.6	1825.6	1825.6
66°	12373.1	3774.8	1792.7	2006.8	1858.5	1651.3	1708.9	1781.7	1755.6	1806.5	1806.5
67.5°	11515.1	3339.7	1678.7	1913.5	1784.5	1622.5	1687.0	1736.4	1700.7	1776.2	1770.7
70°	9947.6	2583.4	1449.5	1702.1	1662.3	1579.9	1656.8	1645.8	1593.7	1708.9	1687.0
72.5°	8386.9	1962.9	1164.0	1424.8	1477.0	1526.4	1614.3	1530.5	1464.6	1545.6	1497.6
75°	6507.8	1475.6	919.7	1107.7	1247.7	1442.7	1563.4	1397.3	1302.7	1294.4	1268.3
77.5°	3518.1	1013.1	728.8	845.6	991.1	1338.4	1529.1	1254.6	1111.8	1078.9	1058.3
80°	1393.2	658.9	529.9	641.0	693.2	1187.4	1446.8	1088.5	916.9	883.9	852.5
82.5°	575.1	389.9	341.8	429.6	451.6	1015.8	1298.5	892.2	708.3	980.1	1040.4
85°	247.0	214.2	203.2	222.4	255.3	712.4	1033.6	680.9	764.5	682.2	542.2
87.5°	74.2	90.6	86.4	85.1	93.3	170.2	550.5	378.9	561.4	212.8	159.2
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)