

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: P317448

Luminaire Tested: **GAN-SA4C-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317448
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-SA4C-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29725 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

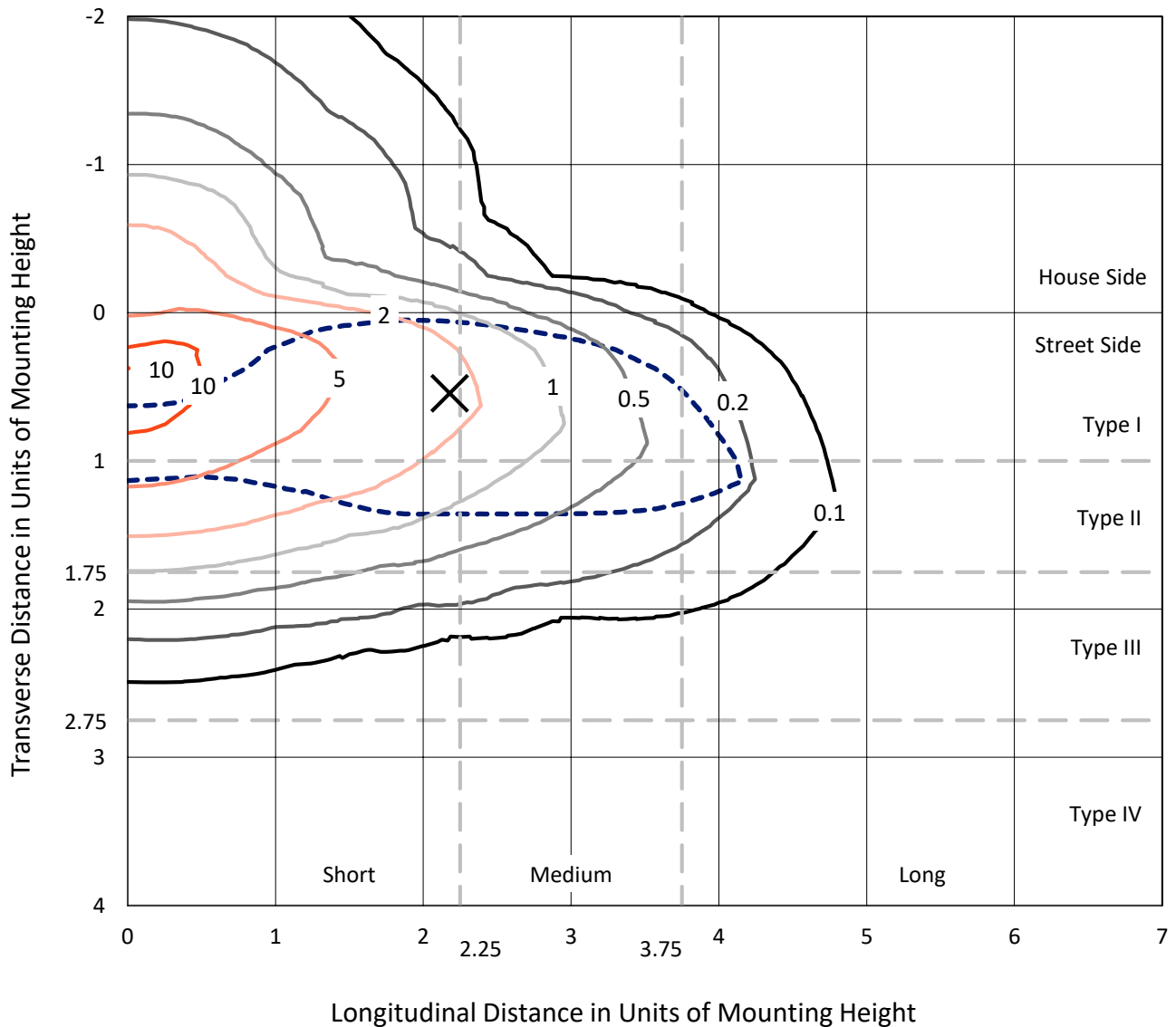
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

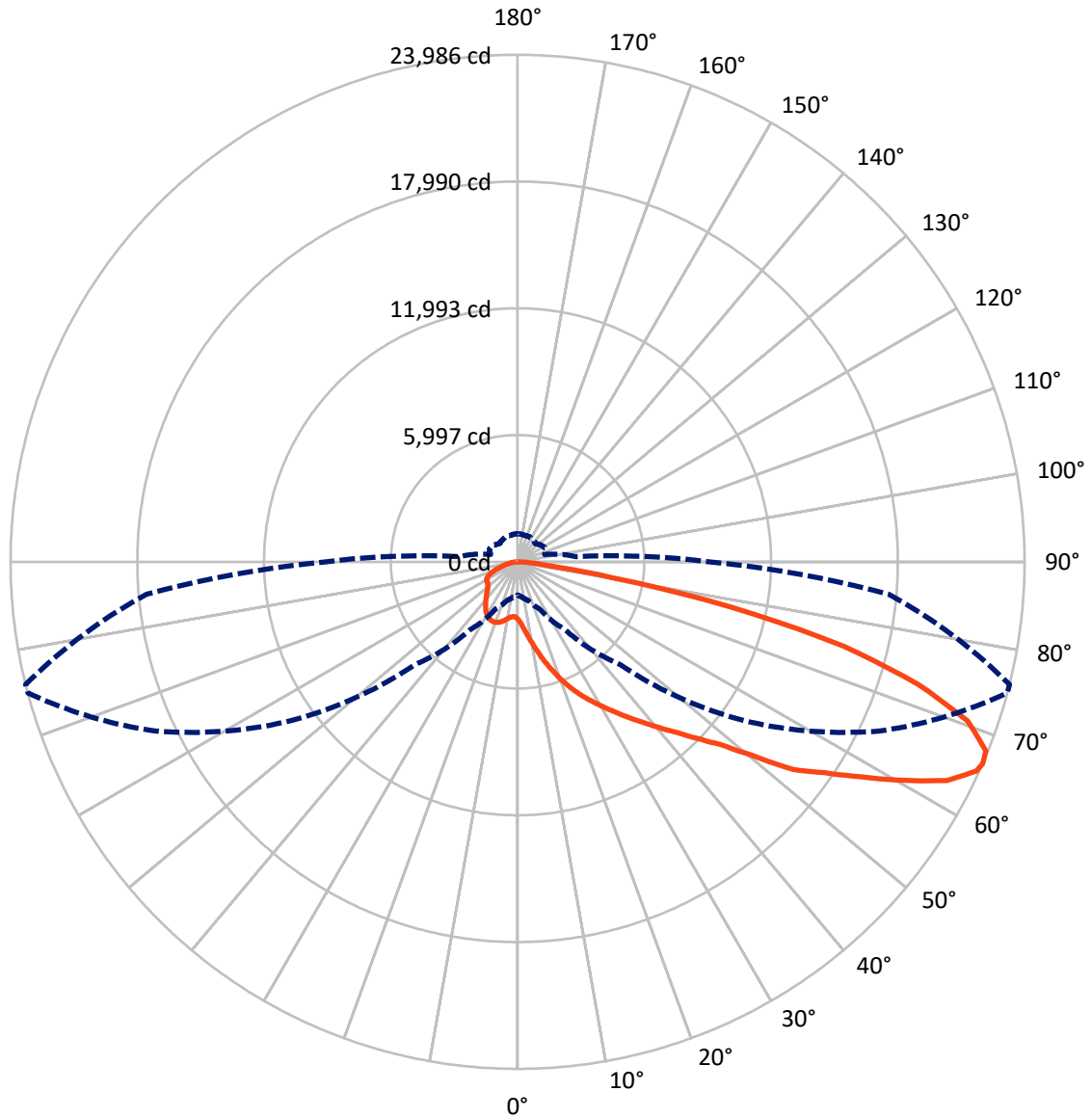
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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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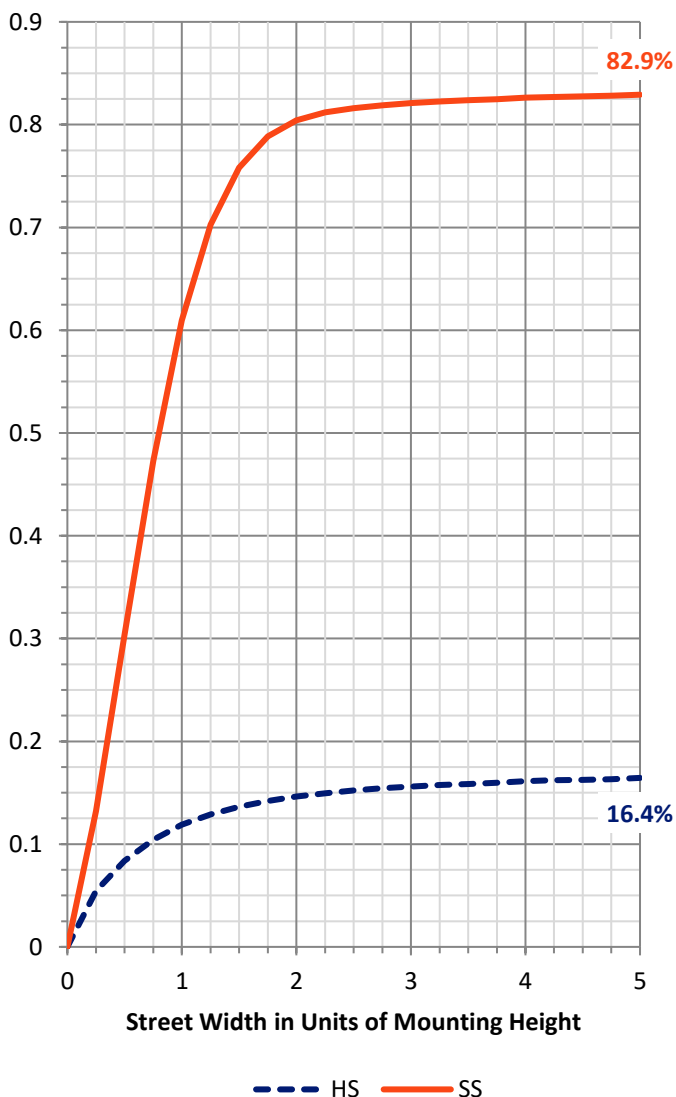
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5001.7	0.0	5001.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	24723.3	0.0	24723.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	29725.0	0.0	29725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.3	1.1
10°-20°	1296.3	4.4
20°-30°	2519.0	8.5
30°-40°	4111.6	13.8
40°-50°	5617.4	18.9
50°-60°	6543.2	22.0
60°-70°	5866.1	19.7
70°-80°	2964.5	10.0
80°-90°	478.7	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°	29725.0	100.0
0°-180°	29725.0	100.0

Coefficient of Utilization

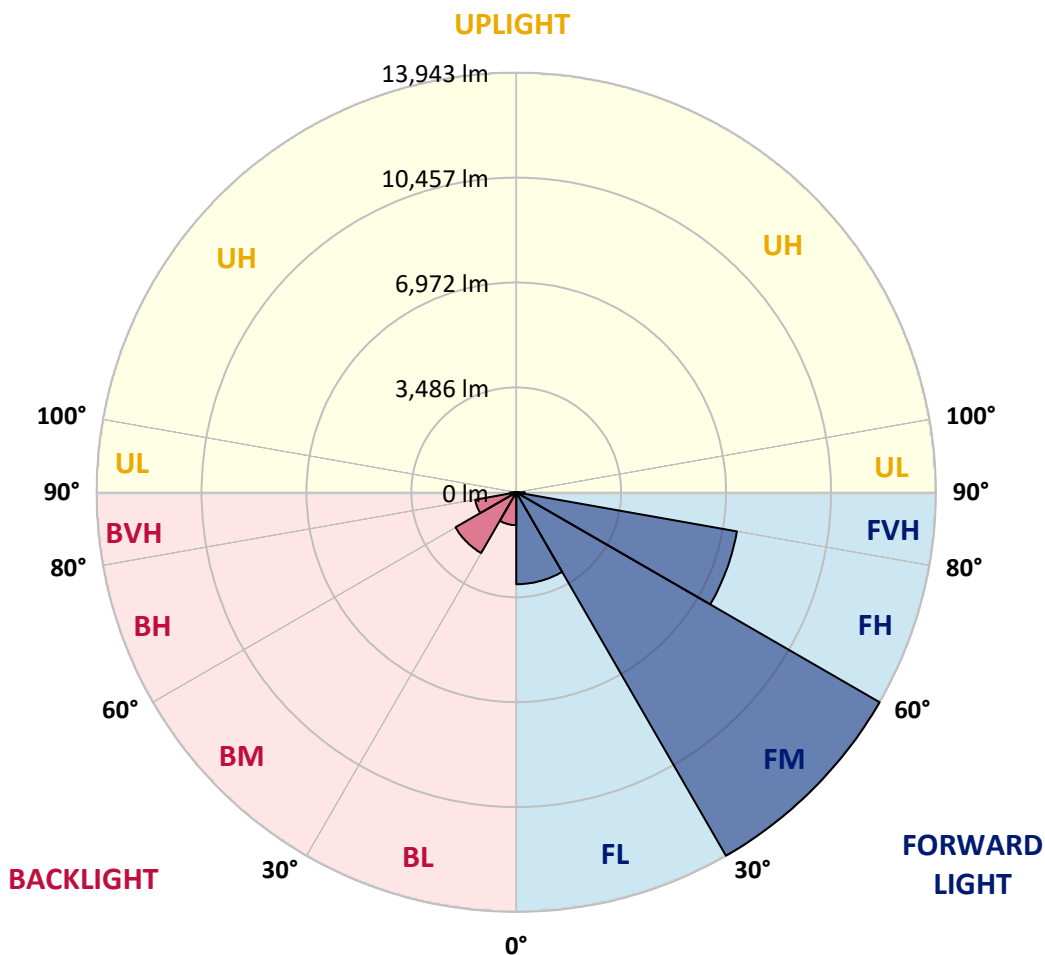


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3052.7	10.3			
FM (30°-60°)	13943.1	46.9			
FH (60°-80°)	7444.8	25.0			G3/7500
FVH (80°-90°)	282.7	1.0			G3/500
BL (0°-30°)	1090.9	3.7	B3/2500		
BM (30°-60°)	2329.1	7.8	B2/2500		
BH (60°-80°)	1385.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	196.0	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2714.6	2714.6	2714.6	2714.6	2714.6	2714.6	2714.6	2714.6	2714.6	2714.6	2714.6
2.5°	3603.6	3549.1	3544.1	3464.3	3446.2	3293.8	3181.8	3064.7	2931.5	2905.3	2800.3
5°	4628.9	4623.8	4554.2	4424.0	4322.1	4061.8	3804.4	3532.0	3233.3	3184.8	2948.7
7.5°	5551.2	5543.2	5489.7	5349.4	5202.1	4882.2	4514.9	4097.1	3612.7	3541.0	3149.5
10°	6251.6	6248.5	6230.4	6127.4	6002.3	5695.5	5289.9	4719.7	4053.7	3955.8	3400.8
12.5°	6792.5	6798.5	6810.6	6774.3	6714.8	6453.4	6037.6	5379.7	4523.9	4427.1	3680.3
15°	7158.8	7176.9	7239.5	7291.0	7322.3	7161.8	6759.2	6054.8	5050.7	4934.7	3990.1
17.5°	7343.4	7363.6	7471.6	7627.0	7770.3	7754.2	7434.3	6698.6	5556.3	5444.3	4323.1
20°	7502.9	7518.0	7639.1	7825.8	8079.1	8191.1	8011.5	7318.2	6110.3	5977.1	4676.3
22.5°	7965.1	7984.2	8020.6	8126.5	8350.6	8556.4	8469.6	7904.5	6617.9	6493.8	5011.3
25°	8857.1	8880.4	8801.6	8711.8	8754.2	8897.5	8913.7	8439.4	7132.5	6992.3	5371.6
27.5°	9931.9	9965.2	9831.0	9599.9	9398.0	9342.5	9323.4	8877.3	7624.0	7461.5	5727.8
30°	10984.4	11041.9	10867.3	10567.6	10197.3	9936.9	9744.2	9306.2	8108.4	7953.0	6063.9
32.5°	12012.7	11989.5	11736.2	11443.5	11009.6	10683.7	10217.5	9766.4	8653.3	8474.7	6397.9
35°	12717.1	12725.1	12490.0	12142.9	11729.1	11478.9	10851.2	10262.9	9209.3	9044.8	6777.3
37.5°	13316.5	13279.2	13012.7	12688.8	12332.6	12225.6	11592.9	10809.8	9811.8	9632.2	7181.0
40°	13516.3	13472.9	13298.3	13065.2	12779.6	12770.6	12411.3	11429.4	10492.9	10315.3	7636.1
42.5°	13395.2	13339.7	13268.1	13204.5	13116.7	13157.1	13180.3	12156.0	11241.7	11042.9	8162.9
45°	12948.2	12864.4	12914.9	13053.1	13243.8	13471.9	13874.5	12960.3	12080.3	11913.8	8781.5
47.5°	12260.9	12185.3	12342.7	12638.4	13157.1	13734.3	14531.5	13848.3	13081.4	12915.9	9662.4
50°	11294.2	11316.4	11541.4	12079.3	12863.4	13855.4	15340.8	15023.9	14536.5	14382.1	10864.3
52.5°	9707.8	9711.9	10345.6	11228.6	12342.7	13792.8	15789.9	16526.5	16523.5	16336.8	12008.7
55°	8234.5	8324.3	8825.9	9999.5	11499.0	13542.5	16103.7	17257.2	17828.3	17609.3	13075.3
57.5°	6795.5	6848.0	7323.3	8501.9	10295.2	12875.5	16425.6	18134.1	19331.9	19193.7	14401.3
60°	5158.7	5239.4	5730.9	6819.7	8755.2	11691.8	16455.9	19049.4	21129.2	20989.9	15881.7
62.5°	3348.3	3487.6	3947.7	4968.0	6892.4	9989.4	15753.5	19647.8	22832.6	22783.2	17195.6
65°	1924.4	2029.4	2349.3	3136.4	4755.0	7852.0	14083.4	19417.7	23881.1	23852.8	17687.0
66°	1572.2	1637.8	1883.0	2451.2	3923.5	6895.4	13112.7	18932.3	23985.0	23986.0	17630.5
67.5°	1257.4	1286.6	1396.6	1754.9	2895.2	5465.5	11378.0	17861.6	23855.9	23891.2	17266.2
70°	1040.4	1055.6	1089.9	1176.6	1580.3	3295.8	8076.1	15079.4	22559.1	22586.4	15844.4
72.5°	933.4	942.5	955.6	967.8	1115.1	1841.7	4932.6	12063.2	19779.0	19814.3	13677.8
75°	845.7	850.7	848.7	849.7	935.5	1173.6	2549.1	9006.5	15992.7	15922.1	10477.8
77.5°	742.7	747.8	737.7	739.7	827.5	902.2	1268.5	6305.1	10792.7	10294.1	5903.4
80°	627.7	631.7	627.7	634.7	720.5	681.2	737.7	3547.1	4772.2	4513.8	2099.0
82.5°	474.3	491.4	503.6	531.8	593.4	484.4	493.5	1381.5	1453.1	1383.5	643.8
85°	207.9	253.3	379.4	406.7	446.0	290.6	323.9	563.1	591.4	573.2	234.1
87.5°	54.5	59.5	187.7	236.1	247.2	131.2	168.5	256.3	270.4	256.3	77.7
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°	2714.6	2714.6	2714.6	2714.6	2714.6	2714.6	2714.6	2714.6	2714.6	2714.6	2714.6
2.5°	2744.8	2695.4	2606.6	2527.9	2468.3	2428.0	2387.6	2367.4	2355.3	2343.2	2345.2
5°	2832.6	2732.7	2580.3	2472.4	2411.8	2373.5	2353.3	2345.2	2340.2	2328.1	2328.1
7.5°	2964.8	2823.5	2613.6	2502.6	2455.2	2426.0	2413.8	2409.8	2403.8	2389.6	2391.6
10°	3131.3	2933.5	2683.3	2575.3	2531.9	2499.6	2482.5	2476.4	2465.3	2449.2	2451.2
12.5°	3327.1	3069.8	2775.1	2662.1	2609.6	2566.2	2538.0	2520.8	2501.6	2480.4	2481.5
15°	3541.0	3218.1	2874.0	2739.8	2668.1	2607.6	2562.2	2532.9	2502.6	2476.4	2475.4
17.5°	3758.0	3361.4	2949.7	2782.2	2685.3	2605.6	2544.0	2498.6	2461.3	2429.0	2426.0
20°	3992.1	3490.6	2992.1	2778.1	2653.0	2558.1	2476.4	2419.9	2378.5	2346.2	2341.2
22.5°	4230.3	3611.7	2999.1	2736.8	2581.4	2465.3	2379.5	2317.0	2274.6	2241.3	2229.2
25°	4448.3	3705.5	2969.9	2657.0	2481.5	2356.3	2272.6	2209.0	2174.7	2135.3	2123.2
27.5°	4647.0	3771.1	2911.3	2555.1	2369.4	2246.3	2167.6	2113.1	2075.8	2045.5	2035.4
30°	4825.7	3806.4	2815.5	2434.0	2254.4	2142.4	2075.8	2038.4	2006.2	1967.8	1960.7
32.5°	4995.2	3806.4	2692.4	2301.8	2140.4	2050.6	2011.2	1988.0	1951.7	1914.3	1904.2
35°	5164.7	3783.2	2547.0	2163.6	2035.4	1985.0	1982.9	1955.7	1900.2	1849.7	1836.6
37.5°	5343.3	3735.8	2383.6	2034.4	1949.6	1955.7	1972.9	1912.3	1833.6	1761.9	1742.8
40°	5545.2	3670.2	2214.0	1922.4	1878.0	1942.6	1945.6	1849.7	1696.3	1630.8	1613.6
42.5°	5782.3	3604.6	2056.6	1823.5	1821.5	1903.2	1894.1	1714.5	1622.7	1589.4	1580.3
45°	6094.1	3567.3	1907.3	1729.7	1777.1	1839.6	1806.3	1639.8	1601.5	1582.3	1574.2
47.5°	6585.6	3586.5	1770.0	1655.0	1732.7	1776.1	1642.9	1609.6	1582.3	1559.1	1551.0
50°	7201.2	3575.4	1659.0	1603.5	1682.2	1709.5	1569.2	1570.2	1556.1	1529.8	1517.7
52.5°	7664.4	3488.6	1587.4	1574.2	1637.8	1591.4	1522.8	1531.9	1524.8	1486.5	1473.3
55°	8111.4	3413.9	1551.0	1563.1	1605.5	1444.1	1468.3	1490.5	1483.4	1446.1	1440.0
57.5°	8667.4	3399.8	1528.8	1566.2	1578.3	1370.4	1415.8	1445.1	1440.0	1423.9	1420.9
60°	9348.6	3403.8	1508.7	1571.2	1548.0	1315.9	1366.4	1403.7	1406.7	1403.7	1401.7
62.5°	9723.0	3293.8	1458.2	1557.1	1494.5	1268.5	1314.9	1369.4	1370.4	1376.5	1375.4
65°	9405.1	2964.8	1364.3	1507.6	1404.7	1229.1	1270.5	1330.0	1314.9	1342.1	1342.1
66°	9096.3	2775.1	1317.9	1475.3	1366.4	1214.0	1256.4	1309.9	1290.7	1328.0	1328.0
67.5°	8465.6	2455.2	1234.2	1406.7	1311.9	1192.8	1240.2	1276.6	1250.3	1305.8	1301.8
70°	7313.2	1899.2	1065.6	1251.3	1222.1	1161.5	1218.0	1209.9	1171.6	1256.4	1240.2
72.5°	6165.8	1443.1	855.7	1047.5	1085.8	1122.2	1186.7	1125.2	1076.7	1136.3	1101.0
75°	4784.3	1084.8	676.1	814.4	917.3	1060.6	1149.4	1027.3	957.7	951.6	932.4
77.5°	2586.4	744.7	535.8	621.6	728.6	983.9	1124.2	922.3	817.4	793.2	778.0
80°	1024.3	484.4	389.5	471.3	509.6	872.9	1063.6	800.2	674.1	649.9	626.7
82.5°	422.8	286.6	251.3	315.9	332.0	746.8	954.6	655.9	520.7	720.5	764.9
85°	181.6	157.4	149.4	163.5	187.7	523.7	759.9	500.5	562.1	501.5	398.6
87.5°	54.5	66.6	63.6	62.6	68.6	125.1	404.7	278.5	412.7	156.4	117.1
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)