

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: P383149

Luminaire Tested: **GAN-SA4D-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383149
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-SA4D-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30376.8 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

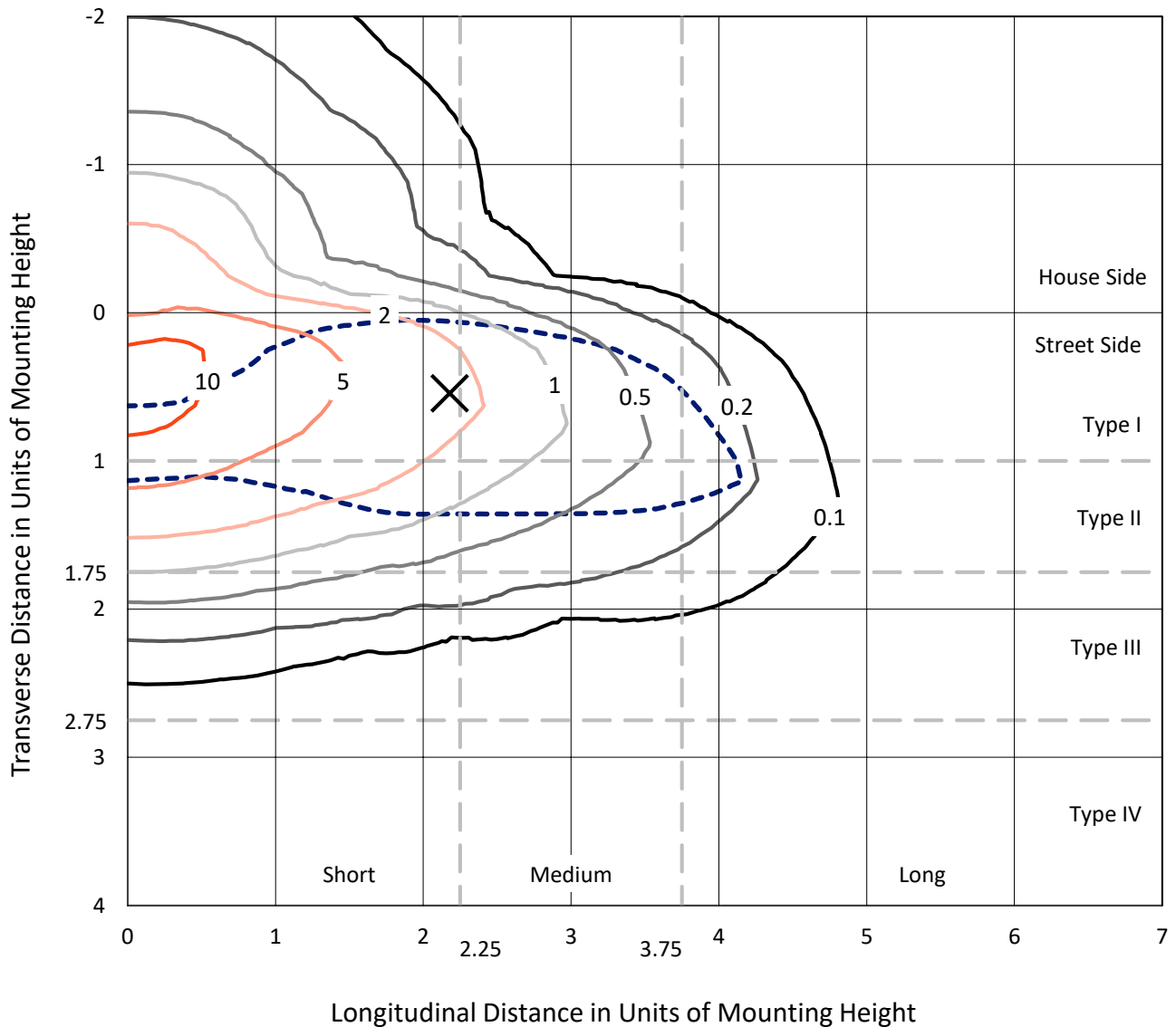
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

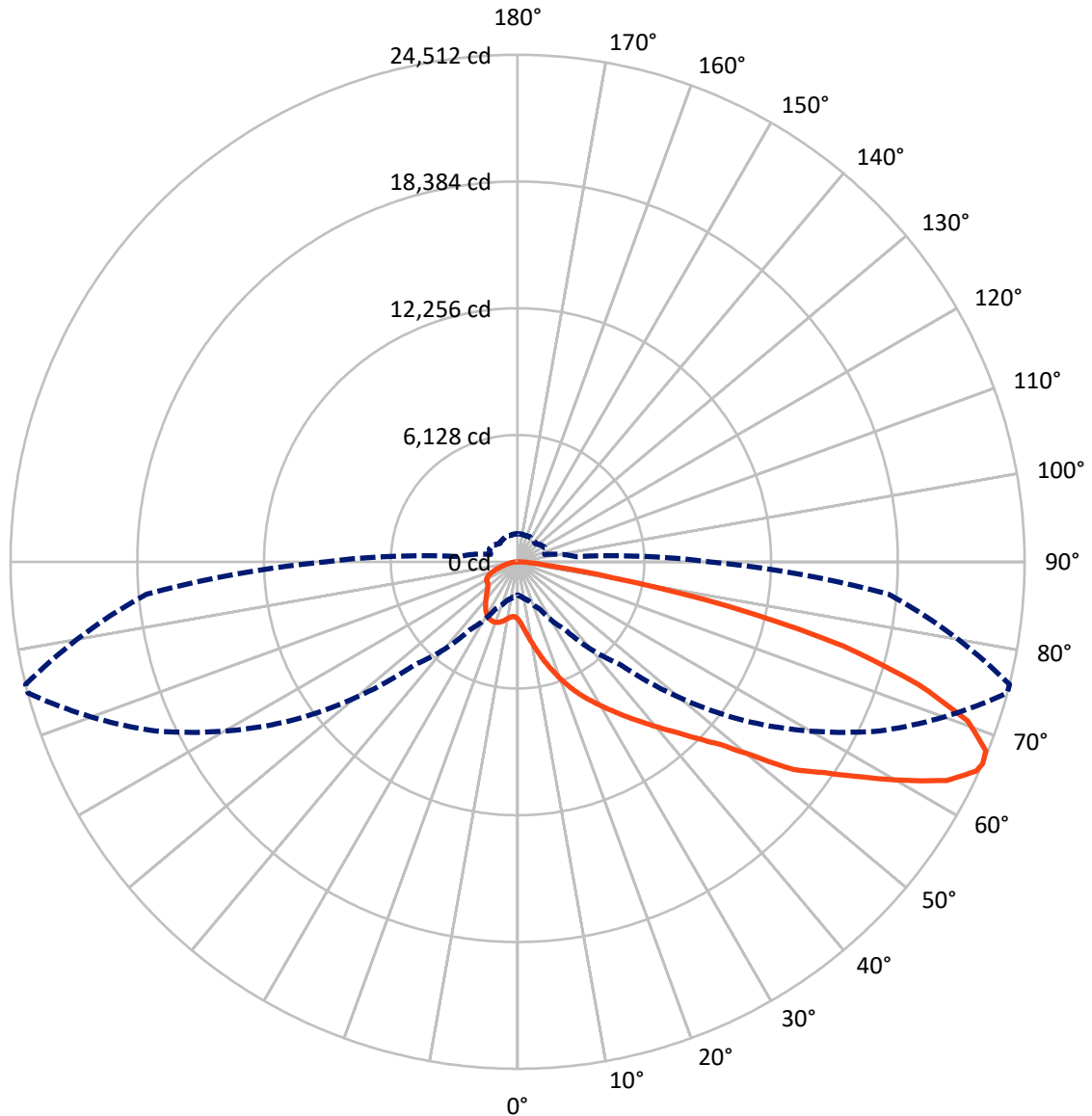
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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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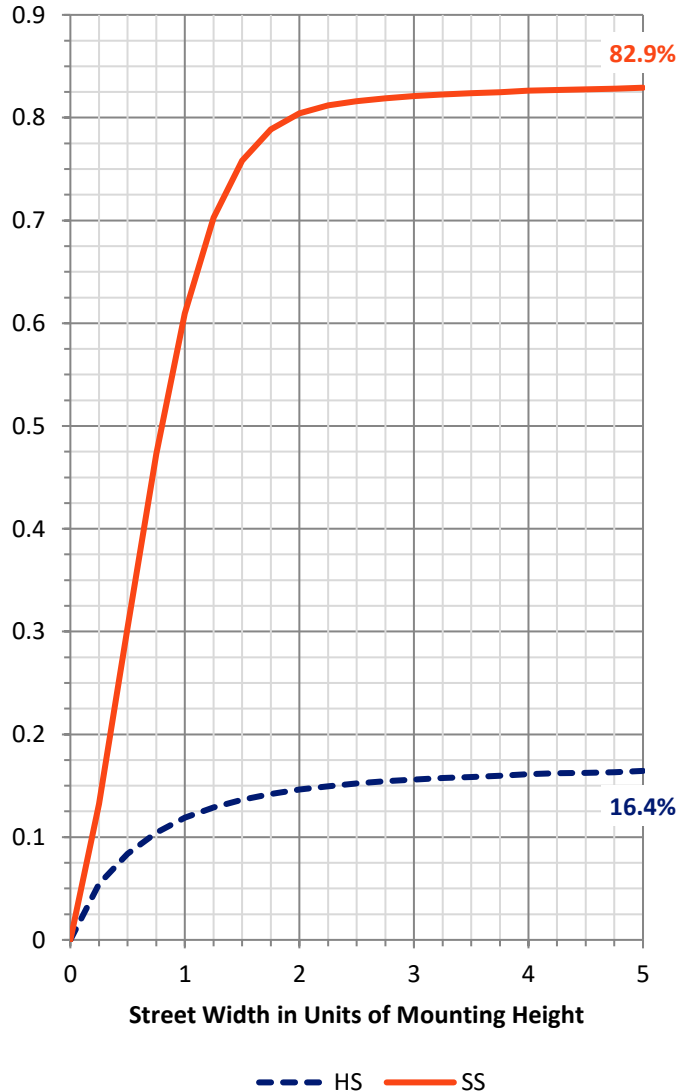
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5111.4	0.0	5111.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	25265.5	0.0	25265.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	30376.8	0.0	30376.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.5	1.1
10°-20°	1324.7	4.4
20°-30°	2574.3	8.5
30°-40°	4201.7	13.8
40°-50°	5740.6	18.9
50°-60°	6686.7	22.0
60°-70°	5994.7	19.7
70°-80°	3029.5	10.0
80°-90°	489.2	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°	30376.8	100.0
0°-180°	30376.8	100.0

Coefficient of Utilization



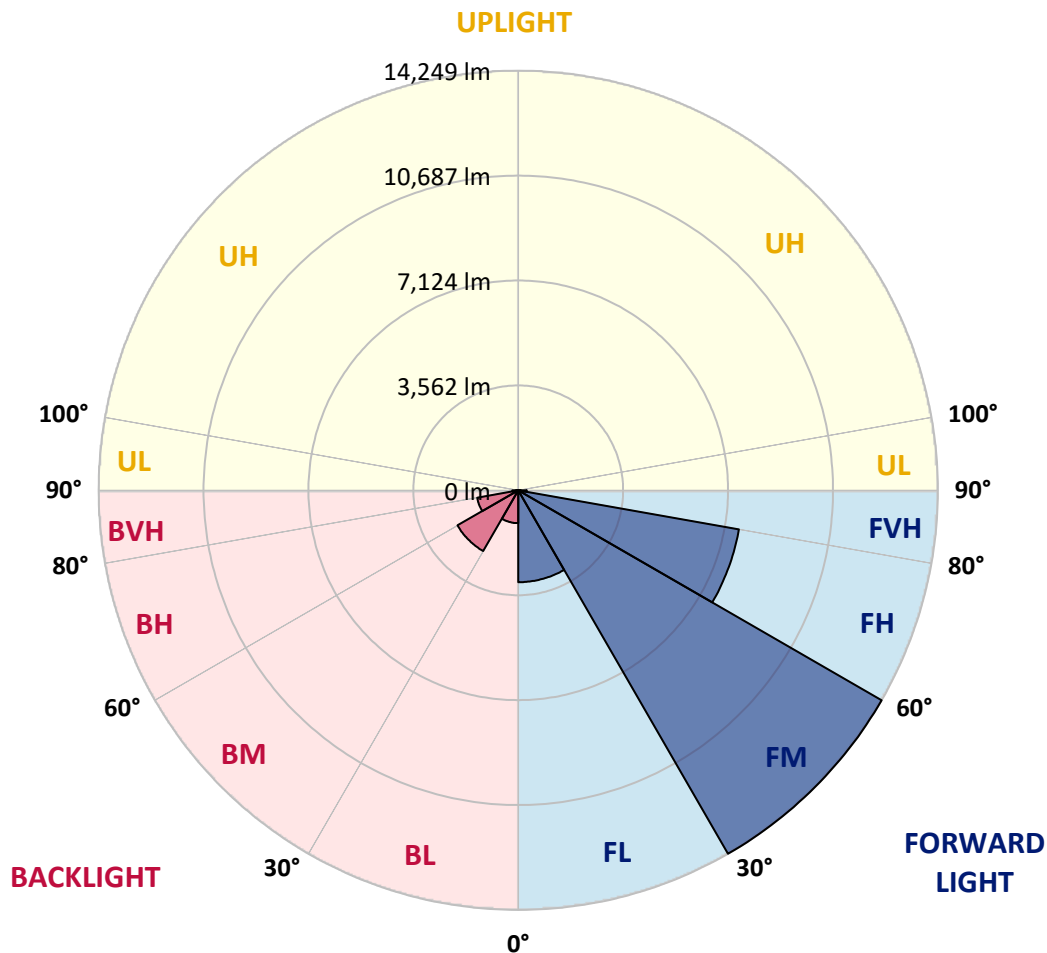
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3119.6	10.3			
FM (30°-60°)	14248.8	46.9			
FH (60°-80°)	7608.1	25.0			G4/12000
FVH (80°-90°)	288.9	1.0			G3/500
BL (0°-30°)	1114.8	3.7	B3/2500		
BM (30°-60°)	2380.2	7.8	B2/2500		
BH (60°-80°)	1416.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	200.3	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1
2.5°	3682.6	3627.0	3621.8	3540.3	3521.7	3366.1	3251.6	3132.0	2995.9	2969.0	2861.7
5°	4730.4	4725.3	4654.1	4521.1	4416.9	4150.8	3887.8	3609.4	3304.2	3254.6	3013.4
7.5°	5672.9	5664.7	5610.1	5466.7	5316.2	4989.3	4613.9	4186.9	3691.9	3618.7	3218.6
10°	6388.6	6385.6	6367.0	6261.8	6134.0	5820.4	5405.9	4823.2	4142.6	4042.5	3475.3
12.5°	6941.4	6947.6	6960.0	6922.9	6862.0	6594.9	6170.0	5497.6	4623.2	4524.2	3761.0
15°	7315.7	7334.4	7398.3	7450.9	7482.8	7318.9	6907.4	6187.5	5161.4	5042.8	4077.6
17.5°	7504.5	7525.1	7635.4	7794.3	7940.7	7924.2	7597.3	6845.5	5678.2	5563.7	4418.0
20°	7667.4	7682.8	7806.6	7997.4	8256.3	8370.7	8187.2	7478.7	6244.3	6108.2	4778.8
22.5°	8139.8	8159.3	8196.5	8304.7	8533.7	8744.1	8655.4	8077.8	6763.0	6636.2	5121.3
25°	9051.4	9075.1	8994.7	8902.9	8946.2	9092.6	9109.1	8624.5	7289.0	7145.6	5489.4
27.5°	10149.7	10183.7	10046.6	9810.4	9604.2	9547.4	9527.8	9072.0	7791.2	7625.2	5853.5
30°	11225.2	11284.0	11105.6	10799.3	10420.9	10154.8	9957.9	9510.3	8286.2	8127.4	6196.8
32.5°	12276.1	12252.4	11993.6	11694.5	11251.0	10917.9	10441.5	9980.5	8843.1	8660.5	6538.2
35°	12995.9	13004.2	12763.9	12409.1	11986.3	11730.6	11089.1	10487.9	9411.2	9243.2	6926.0
37.5°	13608.5	13570.3	13298.1	12967.0	12603.0	12493.7	11847.1	11046.9	10026.9	9843.4	7338.5
40°	13812.7	13768.4	13590.0	13351.7	13059.9	13050.6	12683.5	11680.0	10723.0	10541.6	7803.6
42.5°	13688.9	13632.3	13559.0	13494.0	13404.3	13445.6	13469.2	12422.6	11488.2	11285.0	8341.8
45°	13232.1	13146.5	13198.1	13339.4	13534.3	13767.3	14178.8	13244.5	12345.2	12175.0	8974.1
47.5°	12529.8	12452.5	12613.3	12915.5	13445.6	14035.4	14850.2	14152.0	13368.3	13199.1	9874.3
50°	11541.9	11564.5	11794.5	12344.2	13145.4	14159.2	15677.2	15353.4	14855.3	14697.5	11102.6
52.5°	9920.7	9924.9	10572.5	11474.8	12613.3	14095.2	16136.2	16889.0	16885.9	16695.1	12272.0
55°	8415.0	8506.9	9019.4	10218.8	11751.2	13839.5	16456.8	17635.6	18219.3	17995.5	13362.0
57.5°	6944.5	6998.2	7483.9	8688.4	10520.9	13157.8	16785.8	18531.7	19755.9	19614.6	14717.1
60°	5271.8	5354.3	5856.5	6969.3	8947.2	11948.2	16816.8	19467.1	21592.5	21450.2	16230.0
62.5°	3421.8	3564.0	4034.3	5076.9	7043.5	10208.5	16099.0	20078.7	23333.3	23282.7	17572.7
65°	1966.6	2073.9	2400.8	3205.2	4859.3	8024.3	14392.2	19843.5	24404.8	24375.9	18074.9
66°	1606.7	1673.7	1924.3	2504.9	4009.6	7046.6	13400.2	19347.5	24511.0	24512.0	18017.2
67.5°	1285.0	1314.9	1427.2	1793.3	2958.7	5585.3	11627.5	18253.3	24379.0	24415.1	17644.9
70°	1063.3	1078.7	1113.8	1202.4	1614.9	3368.1	8253.1	15410.1	23053.8	23081.7	16191.8
72.5°	953.9	963.2	976.6	989.0	1139.6	1882.0	5040.8	12327.7	20212.7	20248.8	13977.7
75°	864.2	869.3	867.3	868.3	956.0	1199.4	2605.0	9204.0	16343.4	16271.2	10707.6
77.5°	759.0	764.1	753.8	756.0	845.7	922.0	1296.2	6443.3	11029.3	10519.9	6032.9
80°	641.5	645.6	641.5	648.6	736.3	696.1	753.8	3624.8	4876.8	4612.8	2145.0
82.5°	484.7	502.2	514.6	543.5	606.3	495.0	504.2	1411.8	1485.0	1413.9	658.0
85°	212.5	258.9	387.7	415.6	455.8	297.0	331.1	575.4	604.3	585.8	239.2
87.5°	55.7	60.8	191.8	241.3	252.6	134.0	172.2	262.0	276.4	262.0	79.4
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°	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1	2774.1
2.5°	2805.0	2754.5	2663.8	2583.3	2522.4	2481.2	2440.0	2419.3	2406.9	2394.5	2396.7
5°	2894.8	2792.7	2636.9	2526.5	2464.7	2425.6	2404.9	2396.7	2391.5	2379.1	2379.1
7.5°	3029.9	2885.5	2670.9	2557.6	2509.0	2479.1	2466.7	2462.6	2456.5	2442.1	2444.1
10°	3200.0	2997.9	2742.1	2631.8	2587.5	2554.4	2536.9	2530.7	2519.4	2502.9	2504.9
12.5°	3400.1	3137.1	2836.0	2720.5	2666.8	2622.5	2593.6	2576.1	2556.5	2534.8	2535.9
15°	3618.7	3288.7	2937.0	2799.9	2726.6	2664.8	2618.4	2588.5	2557.6	2530.7	2529.7
17.5°	3840.4	3435.1	3014.4	2843.2	2744.2	2662.7	2599.8	2553.4	2515.3	2482.2	2479.1
20°	4079.6	3567.2	3057.7	2839.1	2711.2	2614.2	2530.7	2473.0	2430.7	2397.7	2392.5
22.5°	4323.0	3690.9	3064.9	2796.8	2638.0	2519.4	2431.7	2367.8	2324.5	2290.4	2278.1
25°	4545.8	3786.8	3035.0	2715.3	2535.9	2408.0	2322.4	2257.4	2222.4	2182.2	2169.8
27.5°	4748.9	3853.8	2975.2	2611.1	2421.4	2295.6	2215.1	2159.4	2121.3	2090.4	2080.1
30°	4931.5	3890.0	2877.2	2487.4	2303.8	2189.3	2121.3	2083.1	2050.1	2010.9	2003.8
32.5°	5104.7	3890.0	2751.4	2352.3	2187.3	2095.5	2055.3	2031.6	1994.4	1956.3	1946.0
35°	5278.0	3866.2	2602.9	2211.0	2080.1	2028.4	2026.4	1998.5	1941.9	1890.3	1876.9
37.5°	5460.5	3817.8	2435.8	2079.0	1992.4	1998.5	2016.1	1954.2	1873.8	1800.6	1781.0
40°	5666.8	3750.7	2262.5	1964.5	1919.2	1985.2	1988.3	1890.3	1733.5	1666.5	1649.0
42.5°	5909.1	3683.6	2101.7	1863.5	1861.4	1945.0	1935.7	1752.1	1658.2	1624.2	1614.9
45°	6227.8	3645.5	1949.1	1767.6	1816.1	1880.0	1846.0	1675.8	1636.6	1617.0	1608.8
47.5°	6730.0	3665.1	1808.8	1691.2	1770.7	1815.0	1678.9	1644.8	1617.0	1593.3	1585.0
50°	7359.0	3653.7	1695.4	1638.7	1719.1	1746.9	1603.6	1604.7	1590.2	1563.4	1551.0
52.5°	7832.5	3565.0	1622.2	1608.8	1673.7	1626.3	1556.2	1565.5	1558.2	1519.1	1505.7
55°	8289.3	3488.7	1585.0	1597.4	1640.7	1475.8	1500.4	1523.2	1515.9	1477.8	1471.6
57.5°	8857.5	3474.3	1562.4	1600.5	1612.9	1400.5	1446.9	1476.8	1471.6	1455.1	1452.0
60°	9553.6	3478.4	1541.7	1605.7	1582.0	1344.8	1396.3	1434.5	1437.6	1434.5	1432.4
62.5°	9936.2	3366.1	1490.2	1591.3	1527.3	1296.2	1343.8	1399.5	1400.5	1406.6	1405.6
65°	9611.3	3029.9	1394.2	1540.7	1435.5	1256.1	1298.4	1359.2	1343.8	1371.6	1371.6
66°	9295.8	2836.0	1346.8	1507.7	1396.3	1240.6	1284.0	1338.5	1319.0	1357.2	1357.2
67.5°	8651.3	2509.0	1261.2	1437.6	1340.7	1218.9	1267.5	1304.5	1277.7	1334.4	1330.3
70°	7473.5	1940.8	1089.0	1278.7	1248.8	1187.0	1244.7	1236.4	1197.3	1284.0	1267.5
72.5°	6301.0	1474.7	874.5	1070.4	1109.7	1146.7	1212.8	1149.8	1100.3	1161.2	1125.1
75°	4889.2	1108.6	690.9	832.2	937.4	1083.9	1174.6	1049.9	978.7	972.4	952.9
77.5°	2643.1	761.1	547.6	635.2	744.6	1005.5	1148.8	942.5	835.3	810.5	795.1
80°	1046.7	495.0	398.1	481.6	520.8	892.0	1086.9	817.8	688.9	664.1	640.4
82.5°	432.1	292.9	256.8	322.8	339.3	763.1	975.6	670.3	532.1	736.3	781.7
85°	185.7	160.9	152.6	167.0	191.8	535.3	776.5	511.5	574.4	512.5	407.4
87.5°	55.7	68.1	64.9	63.9	70.1	127.9	413.5	284.6	421.8	159.9	119.6
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)