

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: P317418

Luminaire Tested: **GAN-SA4D-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317418
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-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 29696 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

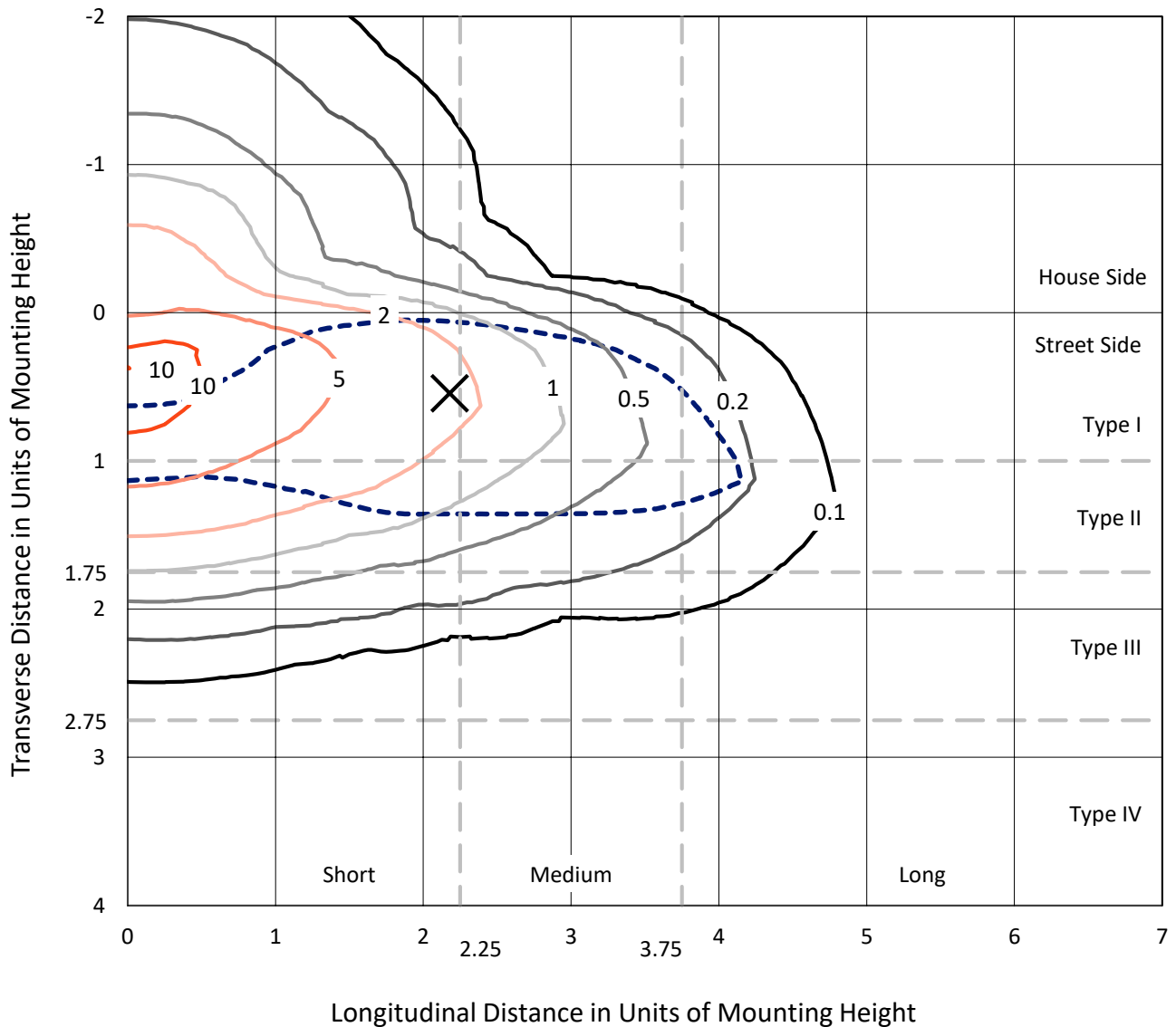
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

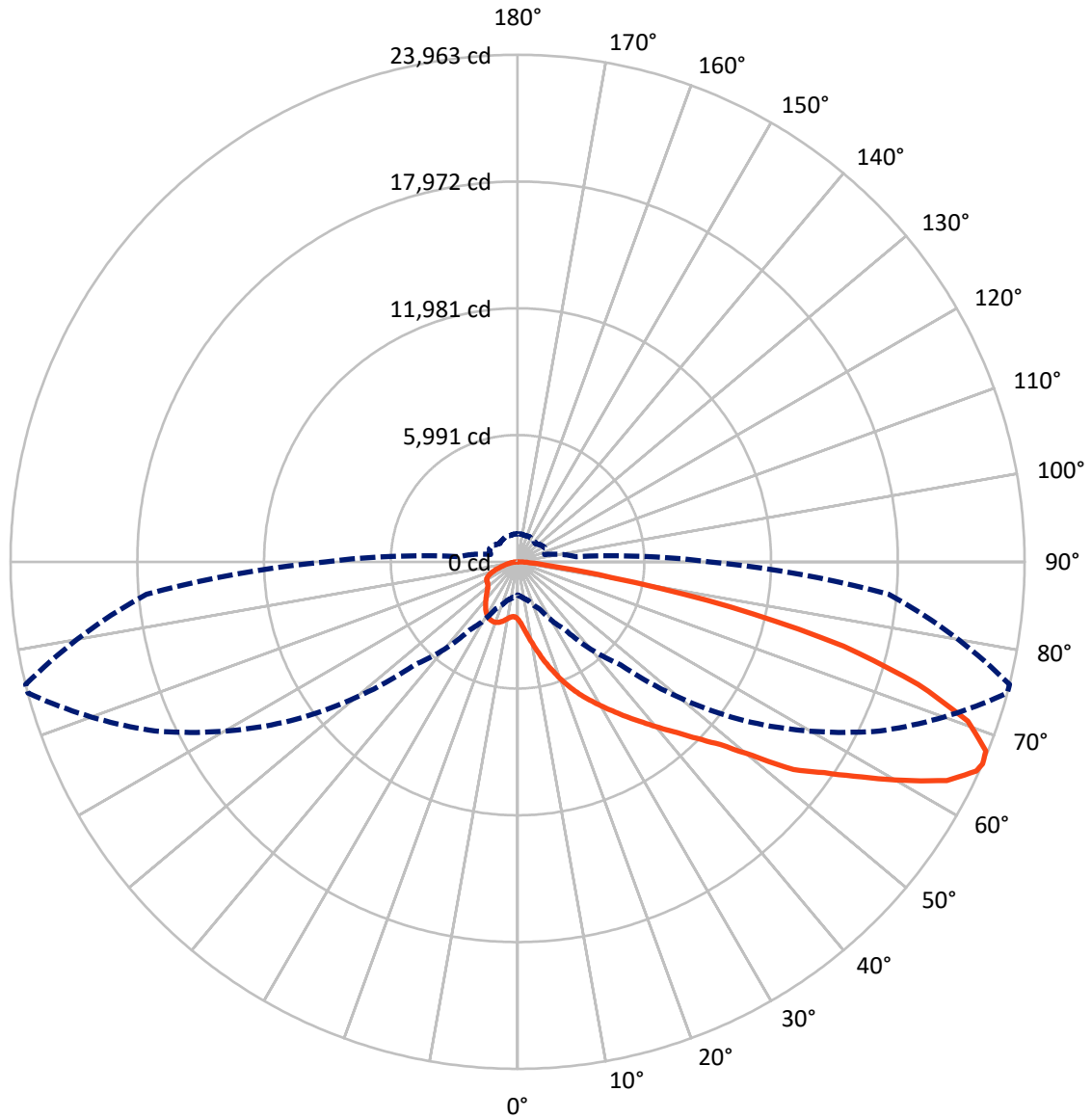
✕ Max cd
 - - - 1/2 Max cd



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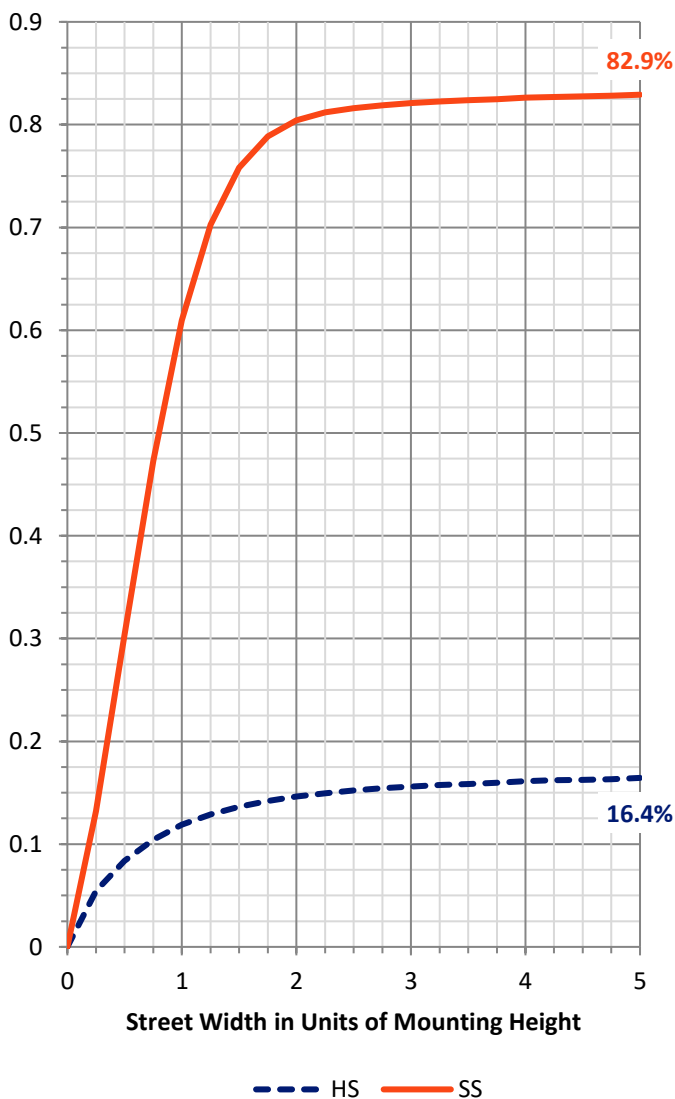
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4996.8	0.0	4996.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	24699.2	0.0	24699.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	29696.0	0.0	29696.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.9	1.1
10°-20°	1295.0	4.4
20°-30°	2516.6	8.5
30°-40°	4107.6	13.8
40°-50°	5611.9	18.9
50°-60°	6536.8	22.0
60°-70°	5860.3	19.7
70°-80°	2961.6	10.0
80°-90°	478.2	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°	29696.0	100.0
0°-180°	29696.0	100.0

Coefficient of Utilization

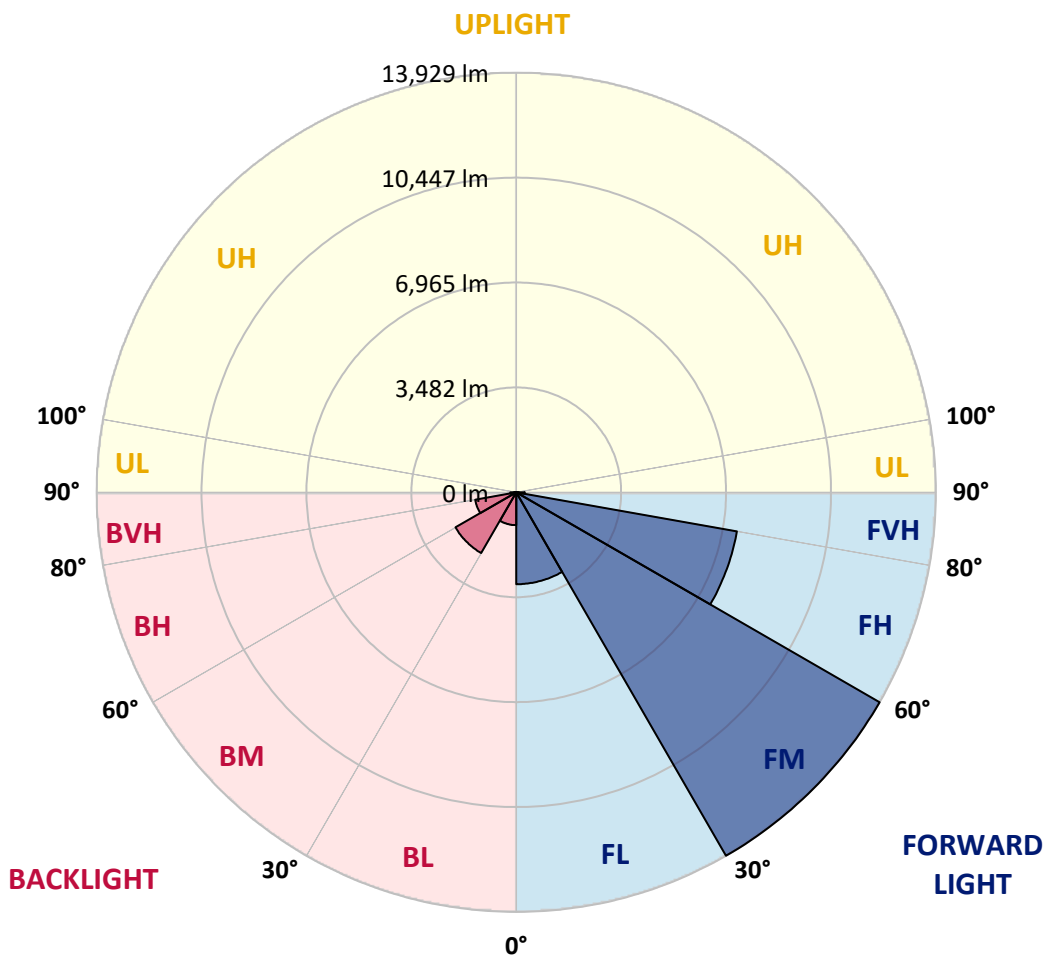


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3049.7	10.3			
FM (30°-60°)	13929.5	46.9			
FH (60°-80°)	7437.6	25.0			G3/7500
FVH (80°-90°)	282.4	1.0			G3/500
BL (0°-30°)	1089.8	3.7	B3/2500		
BM (30°-60°)	2326.8	7.8	B2/2500		
BH (60°-80°)	1384.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	195.8	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°	2711.9	2711.9	2711.9	2711.9	2711.9	2711.9	2711.9	2711.9	2711.9	2711.9	2711.9
2.5°	3600.1	3545.7	3540.6	3461.0	3442.8	3290.6	3178.7	3061.7	2928.7	2902.5	2797.6
5°	4624.4	4619.3	4549.8	4419.7	4317.9	4057.8	3800.7	3528.5	3230.1	3181.7	2945.8
7.5°	5545.8	5537.7	5484.3	5344.2	5197.0	4877.4	4510.4	4093.1	3609.2	3537.6	3146.4
10°	6245.5	6242.4	6224.3	6121.5	5996.5	5690.0	5284.7	4715.1	4049.7	3951.9	3397.5
12.5°	6785.8	6791.9	6804.0	6767.7	6708.2	6447.1	6031.7	5374.4	4519.5	4422.7	3676.7
15°	7151.8	7169.9	7232.4	7283.9	7315.1	7154.8	6752.6	6048.9	5045.8	4929.8	3986.2
17.5°	7336.3	7356.4	7464.3	7619.6	7762.7	7746.6	7427.0	6692.1	5550.9	5439.0	4318.9
20°	7495.6	7510.7	7631.7	7818.2	8071.2	8183.1	8003.7	7311.1	6104.3	5971.3	4671.8
22.5°	7957.3	7976.5	8012.7	8118.6	8342.4	8548.1	8461.4	7896.8	6611.4	6487.4	5006.5
25°	8848.5	8871.7	8793.1	8703.3	8745.7	8888.8	8905.0	8431.1	7125.6	6985.4	5366.4
27.5°	9922.2	9955.4	9821.4	9590.5	9388.9	9333.4	9314.3	8868.7	7616.5	7454.2	5722.2
30°	10973.7	11031.1	10856.7	10557.3	10187.3	9927.2	9734.7	9297.1	8100.5	7945.2	6058.0
32.5°	12001.0	11977.8	11724.7	11432.4	10998.9	10673.2	10207.5	9756.8	8644.9	8466.4	6391.6
35°	12704.7	12712.7	12477.8	12131.0	11717.7	11467.7	10840.6	10252.9	9200.3	9036.0	6770.7
37.5°	13303.5	13266.2	13000.1	12676.4	12320.6	12213.7	11581.6	10799.3	9802.2	9622.8	7174.0
40°	13503.1	13459.8	13285.4	13052.5	12767.2	12758.1	12399.2	11418.3	10482.7	10305.3	7628.6
42.5°	13382.1	13326.7	13255.1	13191.6	13103.9	13144.2	13167.4	12144.1	11230.8	11032.1	8154.9
45°	12935.5	12851.9	12902.3	13040.4	13230.9	13458.8	13861.0	12947.6	12068.5	11902.2	8772.9
47.5°	12249.0	12173.4	12330.6	12626.0	13144.2	13720.9	14517.3	13834.8	13068.6	12903.3	9653.0
50°	11283.2	11305.4	11530.2	12067.5	12850.8	13841.9	15325.8	15009.3	14522.4	14368.1	10853.7
52.5°	9698.4	9702.4	10335.5	11217.6	12330.6	13779.3	15774.5	16510.4	16507.4	16320.9	11996.9
55°	8226.5	8316.2	8817.3	9989.7	11487.8	13529.3	16088.0	17240.3	17810.9	17592.2	13062.6
57.5°	6788.9	6841.3	7316.1	8493.6	10285.1	12862.9	16409.6	18116.4	19313.1	19174.9	14387.3
60°	5153.6	5234.3	5725.3	6813.1	8746.7	11680.4	16439.8	19030.8	21108.6	20969.5	15866.2
62.5°	3345.0	3484.2	3943.9	4963.1	6885.6	9979.6	15738.2	19628.6	22810.3	22760.9	17178.8
65°	1922.5	2027.4	2347.0	3133.3	4750.4	7844.4	14069.7	19398.8	23857.8	23829.6	17669.8
66°	1570.7	1636.2	1881.2	2448.8	3919.7	6888.7	13099.9	18913.8	23961.6	23962.6	17613.3
67.5°	1256.2	1285.4	1395.3	1753.2	2892.4	5460.1	11366.9	17844.2	23832.6	23867.9	17249.4
70°	1039.4	1054.5	1088.8	1175.5	1578.8	3292.6	8068.2	15064.7	22537.1	22564.3	15828.9
72.5°	932.5	941.6	954.7	966.8	1114.0	1839.9	4927.8	12051.4	19759.7	19795.0	13664.4
75°	844.8	849.9	847.9	848.9	934.6	1172.5	2546.6	8997.7	15977.1	15906.5	10467.6
77.5°	742.0	747.0	737.0	739.0	826.7	901.3	1267.2	6298.9	10782.1	10284.1	5897.7
80°	627.1	631.1	627.1	634.1	719.8	680.5	737.0	3543.6	4767.5	4509.4	2096.9
82.5°	473.8	491.0	503.1	531.3	592.8	483.9	493.0	1380.2	1451.7	1382.2	643.2
85°	207.7	253.0	379.1	406.3	445.6	290.3	323.6	562.5	590.8	572.6	233.9
87.5°	54.4	59.5	187.5	235.9	247.0	131.1	168.4	256.1	270.2	256.1	77.6
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°	2711.9	2711.9	2711.9	2711.9	2711.9	2711.9	2711.9	2711.9	2711.9	2711.9	2711.9
2.5°	2742.2	2692.8	2604.0	2525.4	2465.9	2425.6	2385.3	2365.1	2353.0	2340.9	2342.9
5°	2829.9	2730.1	2577.8	2470.0	2409.5	2371.2	2351.0	2342.9	2337.9	2325.8	2325.8
7.5°	2961.9	2820.8	2611.1	2500.2	2452.8	2423.6	2411.5	2407.5	2401.4	2387.3	2389.3
10°	3128.3	2930.7	2680.7	2572.8	2529.4	2497.2	2480.0	2474.0	2462.9	2446.8	2448.8
12.5°	3323.9	3066.8	2772.4	2659.5	2607.1	2563.7	2535.5	2518.4	2499.2	2478.0	2479.0
15°	3537.6	3215.0	2871.2	2737.1	2665.5	2605.1	2559.7	2530.4	2500.2	2474.0	2473.0
17.5°	3754.3	3358.1	2946.8	2779.5	2682.7	2603.0	2541.5	2496.2	2458.9	2426.6	2423.6
20°	3988.2	3487.2	2989.2	2775.4	2650.4	2555.7	2474.0	2417.5	2376.2	2343.9	2338.9
22.5°	4226.2	3608.2	2996.2	2734.1	2578.8	2462.9	2377.2	2314.7	2272.4	2239.1	2227.0
25°	4443.9	3701.9	2967.0	2654.5	2479.0	2354.0	2270.3	2206.8	2172.6	2133.2	2121.1
27.5°	4642.5	3767.4	2908.5	2552.6	2367.1	2244.1	2165.5	2111.1	2073.8	2043.5	2033.4
30°	4821.0	3802.7	2812.7	2431.6	2252.2	2140.3	2073.8	2036.5	2004.2	1965.9	1958.8
32.5°	4990.3	3802.7	2689.7	2299.6	2138.3	2048.6	2009.2	1986.0	1949.8	1912.5	1902.4
35°	5159.7	3779.5	2544.6	2161.5	2033.4	1983.0	1981.0	1953.8	1898.3	1847.9	1834.8
37.5°	5338.1	3732.2	2381.2	2032.4	1947.7	1953.8	1970.9	1910.4	1831.8	1760.2	1741.1
40°	5539.8	3666.6	2211.9	1920.5	1876.2	1940.7	1943.7	1847.9	1694.7	1629.2	1612.0
42.5°	5776.7	3601.1	2054.6	1821.7	1819.7	1901.4	1892.3	1712.8	1621.1	1587.8	1578.8
45°	6088.2	3563.8	1905.4	1728.0	1775.3	1837.9	1804.6	1638.2	1599.9	1580.8	1572.7
47.5°	6579.2	3583.0	1768.3	1653.4	1731.0	1774.3	1641.3	1608.0	1580.8	1557.6	1549.5
50°	7194.1	3571.9	1657.4	1601.9	1680.6	1707.8	1567.7	1568.7	1554.6	1528.4	1516.3
52.5°	7656.9	3485.2	1585.8	1572.7	1636.2	1589.8	1521.3	1530.4	1523.3	1485.0	1471.9
55°	8103.5	3410.6	1549.5	1561.6	1604.0	1442.7	1466.9	1489.0	1482.0	1444.7	1438.6
57.5°	8659.0	3396.4	1527.3	1564.6	1576.7	1369.1	1414.4	1443.7	1438.6	1422.5	1419.5
60°	9339.5	3400.5	1507.2	1569.7	1546.5	1314.6	1365.0	1402.3	1405.4	1402.3	1400.3
62.5°	9713.5	3290.6	1456.8	1555.6	1493.1	1267.2	1313.6	1368.1	1369.1	1375.1	1374.1
65°	9395.9	2961.9	1363.0	1506.2	1403.3	1227.9	1269.3	1328.7	1313.6	1340.8	1340.8
66°	9087.4	2772.4	1316.6	1473.9	1365.0	1212.8	1255.1	1308.6	1289.4	1326.7	1326.7
67.5°	8457.3	2452.8	1233.0	1405.4	1310.6	1191.6	1239.0	1275.3	1249.1	1304.5	1300.5
70°	7306.0	1897.3	1064.6	1250.1	1220.9	1160.4	1216.8	1208.8	1170.5	1255.1	1239.0
72.5°	6159.8	1441.6	854.9	1046.5	1084.8	1121.1	1185.6	1124.1	1075.7	1135.2	1099.9
75°	4779.6	1083.8	675.5	813.6	916.4	1059.6	1148.3	1026.3	956.7	950.7	931.5
77.5°	2583.9	744.0	535.3	621.0	727.9	982.9	1123.1	921.4	816.6	792.4	777.3
80°	1023.3	483.9	389.1	470.8	509.1	872.0	1062.6	799.5	673.4	649.2	626.1
82.5°	422.4	286.3	251.0	315.5	331.7	746.0	953.7	655.3	520.2	719.8	764.2
85°	181.5	157.3	149.2	163.3	187.5	523.2	759.1	500.0	561.5	501.0	398.2
87.5°	54.4	66.5	63.5	62.5	68.6	125.0	404.3	278.2	412.3	156.3	116.9
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)