

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: P317439

Luminaire Tested: **GAN-SA5B-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317439
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-SA5B-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29756 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

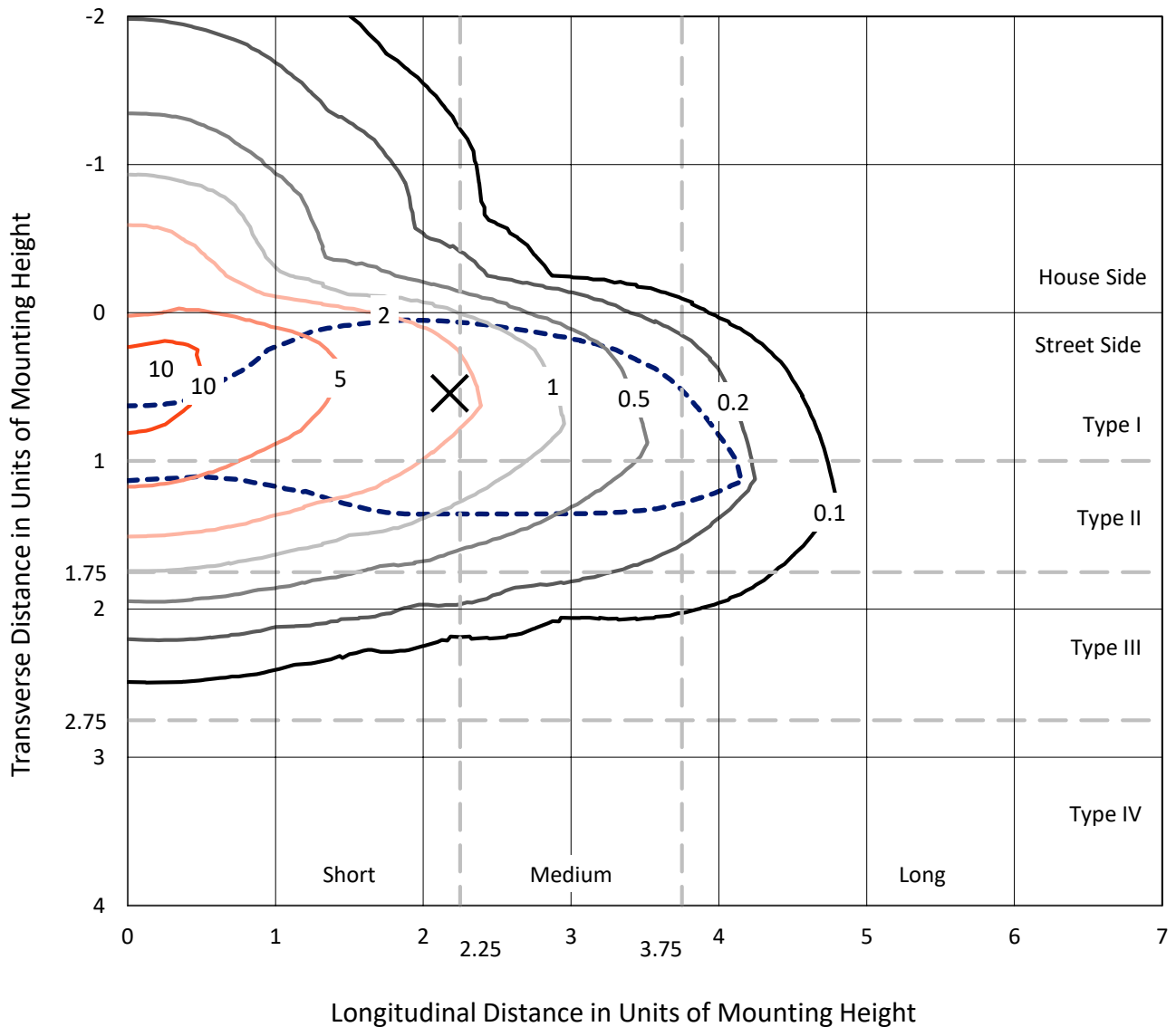
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

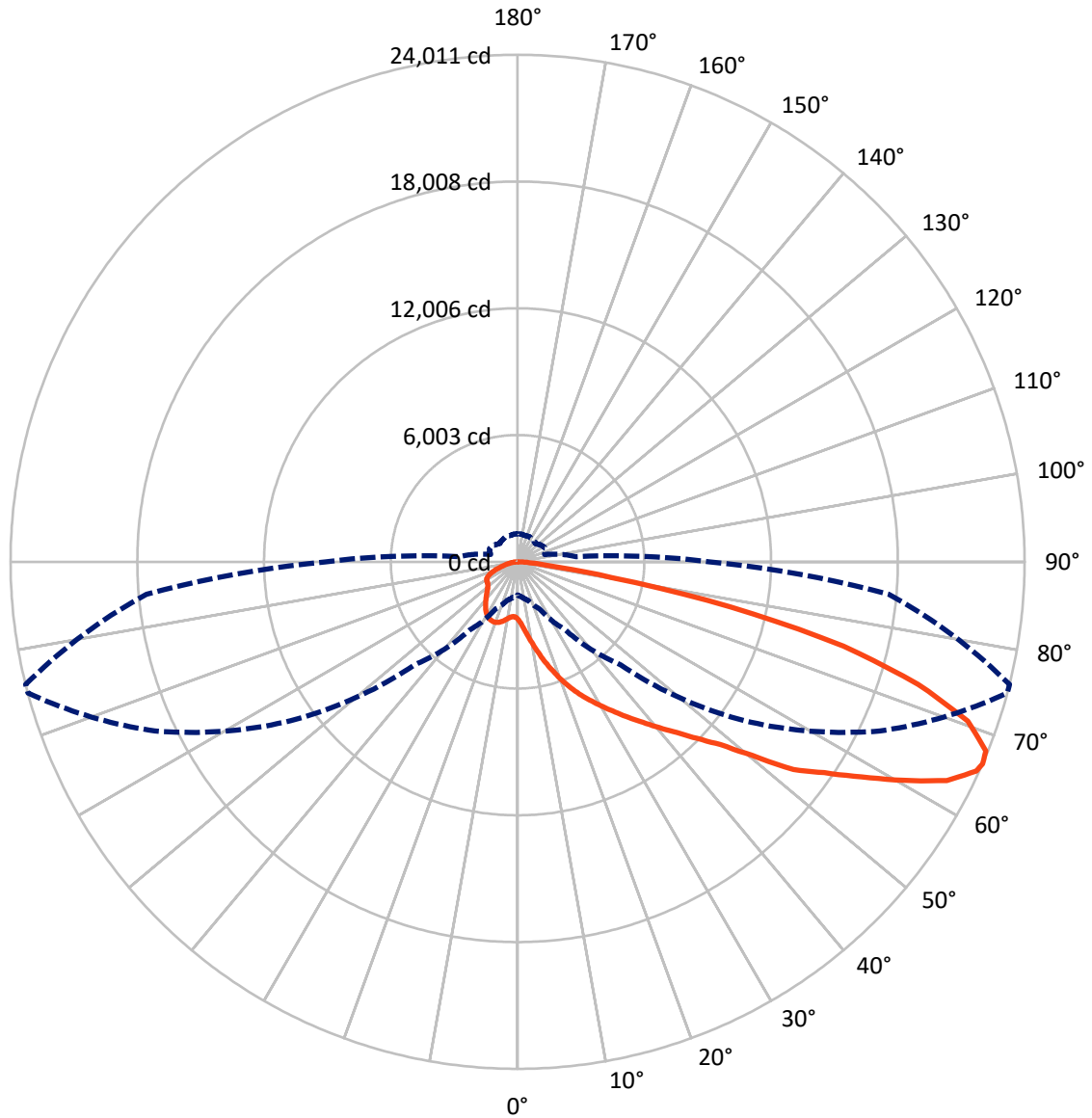
✕ Max cd
 - - - 1/2 Max cd



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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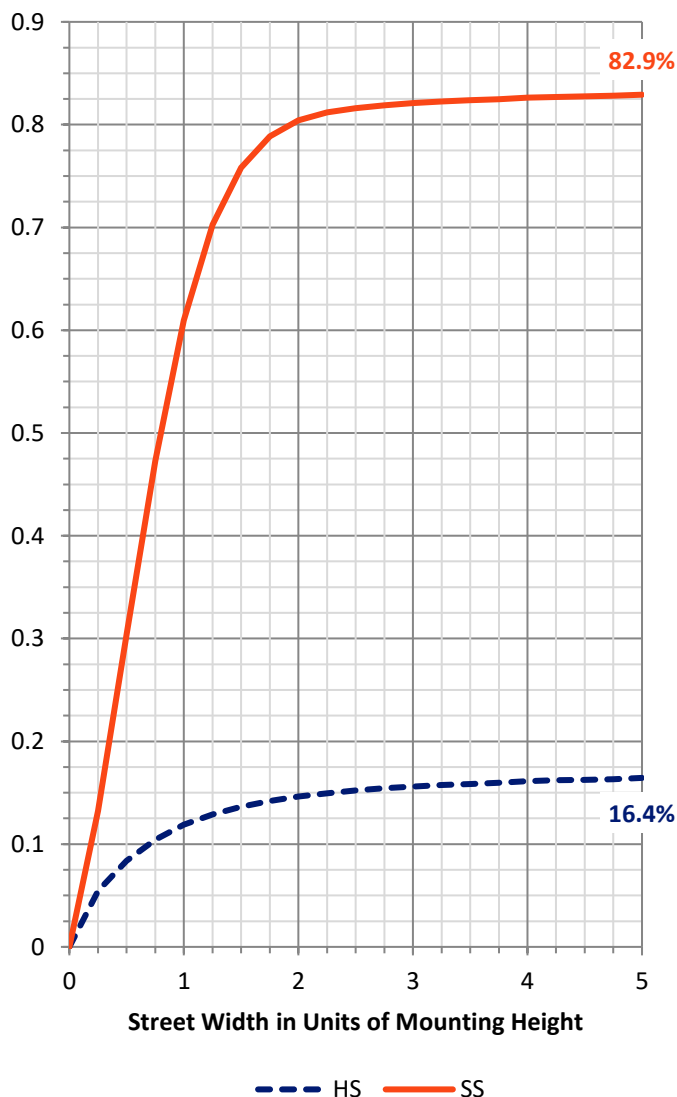
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5006.9	0.0	5006.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	24749.1	0.0	24749.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	29756.0	0.0	29756.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.6	1.1
10°-20°	1297.6	4.4
20°-30°	2521.6	8.5
30°-40°	4115.9	13.8
40°-50°	5623.3	18.9
50°-60°	6550.0	22.0
60°-70°	5872.2	19.7
70°-80°	2967.6	10.0
80°-90°	479.2	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°	29756.0	100.0
0°-180°	29756.0	100.0

Coefficient of Utilization



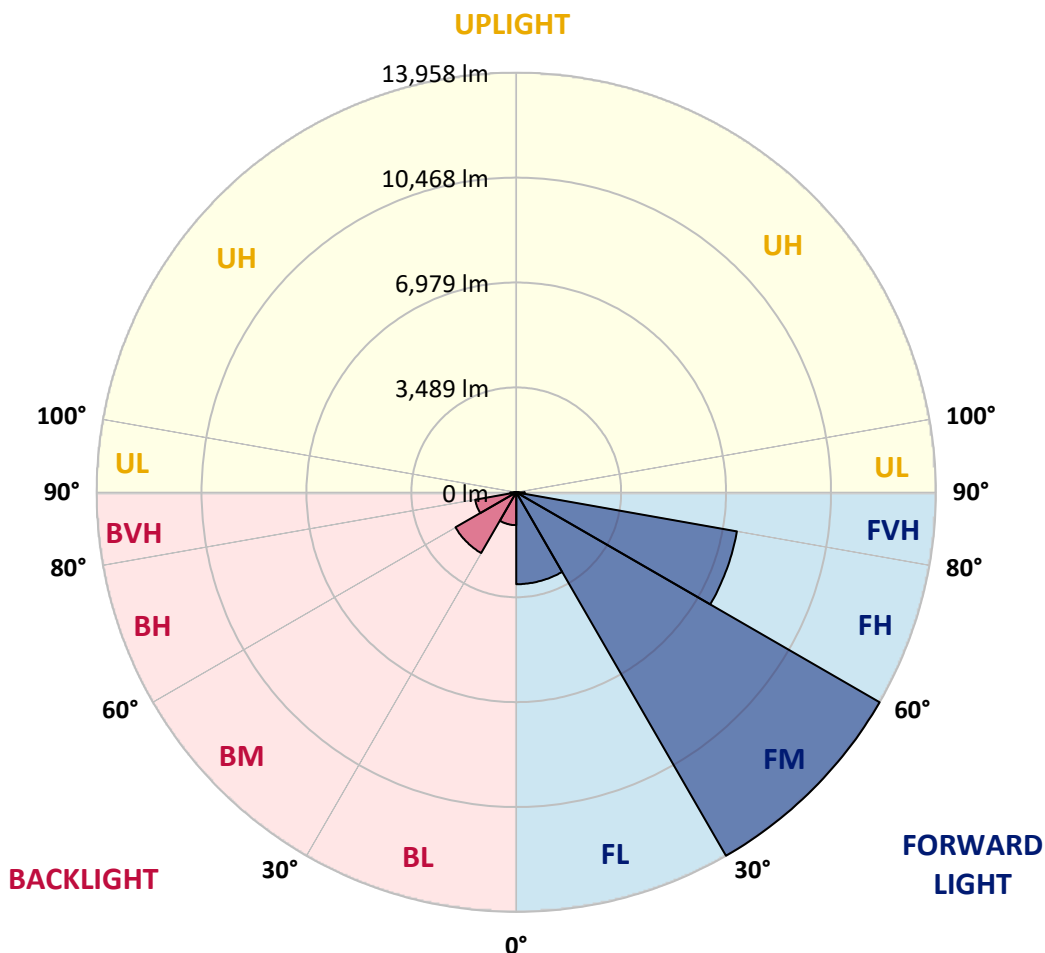
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3055.9	10.3			
FM (30°-60°)	13957.6	46.9			
FH (60°-80°)	7452.6	25.0			G3/7500
FVH (80°-90°)	283.0	1.0			G3/500
BL (0°-30°)	1092.0	3.7	B3/2500		
BM (30°-60°)	2331.5	7.8	B2/2500		
BH (60°-80°)	1387.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	196.2	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°	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4
2.5°	3607.4	3552.8	3547.8	3468.0	3449.8	3297.2	3185.1	3067.9	2934.6	2908.3	2803.3
5°	4633.7	4628.7	4559.0	4428.6	4326.6	4066.0	3808.4	3535.6	3236.6	3188.1	2951.8
7.5°	5557.0	5548.9	5495.4	5355.0	5207.5	4887.3	4519.6	4101.3	3616.5	3544.7	3152.8
10°	6258.1	6255.1	6236.9	6133.8	6008.6	5701.5	5295.4	4724.6	4057.9	3959.9	3404.3
12.5°	6799.5	6805.6	6817.7	6781.4	6721.8	6460.1	6043.9	5385.3	4528.7	4431.7	3684.1
15°	7166.2	7184.4	7247.1	7298.6	7329.9	7169.3	6766.2	6061.1	5056.0	4939.8	3994.3
17.5°	7351.1	7371.3	7479.4	7635.0	7778.4	7762.3	7442.0	6705.6	5562.1	5449.9	4327.6
20°	7510.7	7525.9	7647.1	7834.0	8087.5	8199.7	8019.8	7325.9	6116.7	5983.3	4681.2
22.5°	7973.4	7992.6	8028.9	8135.0	8359.3	8565.3	8478.5	7912.8	6624.8	6500.5	5016.6
25°	8866.4	8889.6	8810.8	8720.9	8763.3	8906.8	8923.0	8448.2	7140.0	6999.6	5377.2
27.5°	9942.2	9975.6	9841.2	9609.9	9407.8	9352.3	9333.1	8886.6	7631.9	7469.3	5733.8
30°	10995.8	11053.4	10878.7	10578.6	10207.9	9947.3	9754.3	9315.9	8116.8	7961.3	6070.2
32.5°	12025.2	12002.0	11748.4	11455.5	11021.1	10694.8	10228.1	9776.6	8662.3	8483.5	6404.6
35°	12730.3	12738.4	12503.0	12155.5	11741.4	11490.8	10862.5	10273.6	9218.9	9054.3	6784.4
37.5°	13330.4	13293.0	13026.3	12702.0	12345.5	12238.4	11605.0	10821.1	9822.0	9642.2	7188.5
40°	13530.4	13487.0	13312.2	13078.8	12793.0	12783.9	12424.2	11441.3	10503.9	10326.1	7644.1
42.5°	13409.2	13353.6	13281.9	13218.3	13130.4	13170.8	13194.0	12168.7	11253.4	11054.4	8171.4
45°	12961.7	12877.8	12928.3	13066.7	13257.6	13486.0	13889.0	12973.8	12092.9	11926.2	8790.6
47.5°	12273.7	12198.0	12355.6	12651.5	13170.8	13748.6	14546.6	13862.7	13095.0	12929.3	9672.5
50°	11306.0	11328.2	11553.5	12091.9	12876.8	13869.8	15356.8	15039.6	14551.7	14397.1	10875.6
52.5°	9718.0	9722.0	10356.4	11240.3	12355.6	13807.2	15806.3	16543.8	16540.7	16353.9	12021.2
55°	8243.1	8333.0	8835.1	10009.9	11511.0	13556.7	16120.5	17275.1	17846.9	17627.7	13088.9
57.5°	6802.6	6855.1	7330.9	8510.8	10305.9	12888.9	16442.8	18153.0	19352.1	19213.7	14416.3
60°	5164.1	5244.9	5736.8	6826.8	8764.4	11704.0	16473.1	19069.2	21151.2	21011.8	15898.3
62.5°	3351.8	3491.2	3951.8	4973.1	6899.6	9999.8	15770.0	19668.3	22856.4	22806.9	17213.5
65°	1926.4	2031.5	2351.7	3139.7	4760.0	7860.2	14098.1	19438.0	23906.0	23877.7	17705.5
66°	1573.9	1639.5	1885.0	2453.7	3927.6	6902.6	13126.3	18952.1	24010.0	24011.1	17648.9
67.5°	1258.7	1288.0	1398.1	1756.7	2898.2	5471.2	11389.8	17880.2	23880.7	23916.1	17284.2
70°	1041.5	1056.7	1091.0	1177.9	1581.9	3299.3	8084.5	15095.2	22582.7	22609.9	15860.9
72.5°	934.4	943.5	956.6	968.8	1116.3	1843.6	4937.8	12075.7	19799.6	19835.0	13692.0
75°	846.5	851.6	849.6	850.6	936.4	1174.8	2551.7	9015.9	16009.4	15938.7	10488.7
77.5°	743.5	748.5	738.4	740.5	828.4	903.1	1269.8	6311.6	10803.9	10304.9	5909.6
80°	628.3	632.4	628.3	635.4	721.3	681.9	738.4	3550.8	4777.2	4518.6	2101.2
82.5°	474.8	492.0	504.1	532.4	594.0	484.9	494.0	1382.9	1454.7	1385.0	644.5
85°	208.1	253.6	379.8	407.1	446.5	290.9	324.3	563.7	592.0	573.8	234.4
87.5°	54.5	59.6	187.9	236.4	247.5	131.3	168.7	256.6	270.7	256.6	77.8
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°	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4	2717.4
2.5°	2747.7	2698.2	2609.3	2530.5	2470.9	2430.5	2390.1	2369.9	2357.8	2345.6	2347.7
5°	2835.6	2735.6	2583.0	2474.9	2414.3	2376.0	2355.7	2347.7	2342.6	2330.5	2330.5
7.5°	2967.9	2826.5	2616.4	2505.3	2457.8	2428.5	2416.4	2412.3	2406.3	2392.1	2394.1
10°	3134.6	2936.6	2686.1	2578.0	2534.6	2502.2	2485.1	2479.0	2467.9	2451.7	2453.7
12.5°	3330.6	3073.0	2778.0	2664.9	2612.3	2568.9	2540.6	2523.4	2504.2	2483.0	2484.0
15°	3544.7	3221.5	2877.0	2742.6	2670.9	2610.3	2564.9	2535.6	2505.3	2479.0	2478.0
17.5°	3761.9	3364.9	2952.8	2785.1	2688.1	2608.3	2546.7	2501.2	2463.8	2431.5	2428.5
20°	3996.3	3494.2	2995.2	2781.0	2655.8	2560.8	2479.0	2422.4	2381.0	2348.7	2343.6
22.5°	4234.7	3615.4	3002.3	2739.6	2584.0	2467.9	2382.0	2319.4	2277.0	2243.6	2231.5
25°	4452.9	3709.4	2973.0	2659.8	2484.0	2358.8	2274.9	2211.3	2176.9	2137.5	2125.4
27.5°	4651.9	3775.1	2914.4	2557.8	2371.9	2248.7	2169.9	2115.3	2077.9	2047.6	2037.5
30°	4830.7	3810.4	2818.4	2436.6	2256.8	2144.6	2077.9	2040.6	2008.2	1969.9	1962.8
32.5°	5000.4	3810.4	2695.2	2304.2	2142.6	2052.7	2013.3	1990.1	1953.7	1916.3	1906.2
35°	5170.1	3787.2	2549.7	2165.8	2037.5	1987.0	1985.0	1957.7	1902.2	1851.7	1838.5
37.5°	5348.9	3739.7	2386.1	2036.5	1951.7	1957.7	1974.9	1914.3	1835.5	1763.8	1744.6
40°	5551.0	3674.0	2216.3	1924.4	1880.0	1944.6	1947.6	1851.7	1698.1	1632.5	1615.3
42.5°	5788.4	3608.4	2058.8	1825.4	1823.4	1905.2	1896.1	1716.3	1624.4	1591.0	1581.9
45°	6100.5	3571.0	1909.2	1731.5	1778.9	1841.6	1808.2	1641.5	1603.2	1584.0	1575.9
47.5°	6592.5	3590.2	1771.9	1656.7	1734.5	1777.9	1644.6	1611.2	1584.0	1560.7	1552.7
50°	7208.7	3579.1	1660.7	1605.2	1684.0	1711.3	1570.8	1571.8	1557.7	1531.4	1519.3
52.5°	7672.3	3492.2	1589.0	1575.9	1639.5	1593.1	1524.4	1533.5	1526.4	1488.0	1474.9
55°	8119.9	3417.5	1552.7	1564.8	1607.2	1445.6	1469.8	1492.0	1485.0	1447.6	1441.5
57.5°	8676.5	3403.3	1530.4	1567.8	1579.9	1371.8	1417.3	1446.6	1441.5	1425.4	1422.3
60°	9358.3	3407.3	1510.2	1572.9	1549.6	1317.3	1367.8	1405.2	1408.2	1405.2	1403.1
62.5°	9733.1	3297.2	1459.7	1558.7	1496.1	1269.8	1316.3	1370.8	1371.8	1377.9	1376.9
65°	9414.9	2967.9	1365.8	1509.2	1406.2	1230.4	1271.8	1331.4	1316.3	1343.5	1343.5
66°	9105.8	2778.0	1319.3	1476.9	1367.8	1215.3	1257.7	1311.2	1292.0	1329.4	1329.4
67.5°	8474.4	2457.8	1235.5	1408.2	1313.2	1194.0	1241.5	1277.9	1251.6	1307.2	1303.1
70°	7320.8	1901.2	1066.8	1252.6	1223.3	1162.7	1219.3	1211.2	1172.8	1257.7	1241.5
72.5°	6172.2	1444.6	856.6	1048.6	1087.0	1123.3	1188.0	1126.4	1077.9	1137.5	1102.1
75°	4789.3	1085.9	676.8	815.2	918.3	1061.7	1150.6	1028.4	958.7	952.6	933.4
77.5°	2589.1	745.5	536.4	622.3	729.4	984.9	1125.3	923.3	818.2	794.0	778.9
80°	1025.3	484.9	389.9	471.8	510.1	873.8	1064.7	801.1	674.8	650.6	627.3
82.5°	423.3	286.9	251.5	316.2	332.4	747.5	955.6	656.6	521.3	721.3	765.7
85°	181.8	157.6	149.5	163.6	187.9	524.3	760.7	501.1	562.7	502.1	399.0
87.5°	54.5	66.7	63.6	62.6	68.7	125.3	405.1	278.8	413.2	156.6	117.2
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)