

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: P317447

Luminaire Tested: **GAN-SA3C-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317447
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-SA3C-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 22497 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

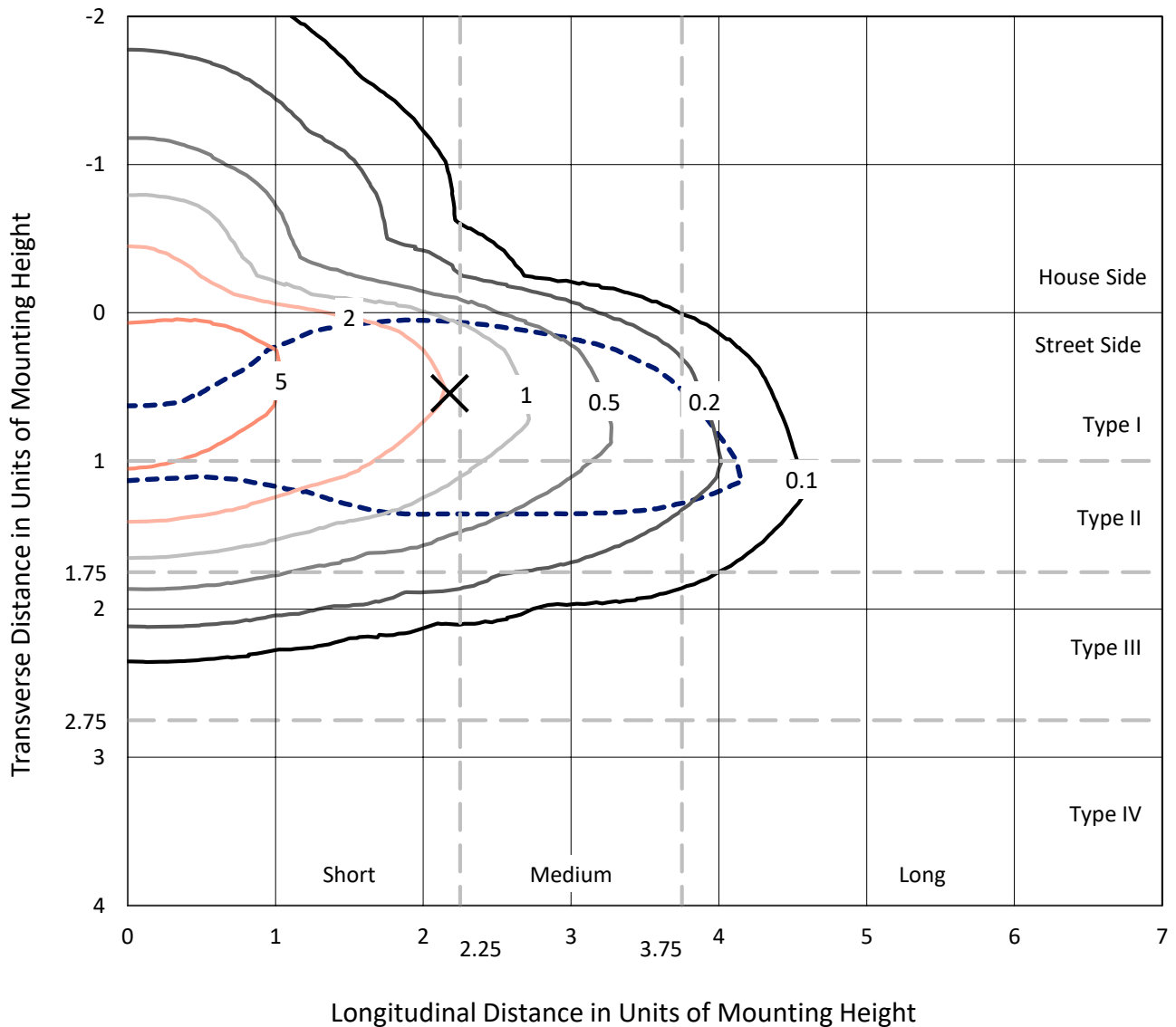
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

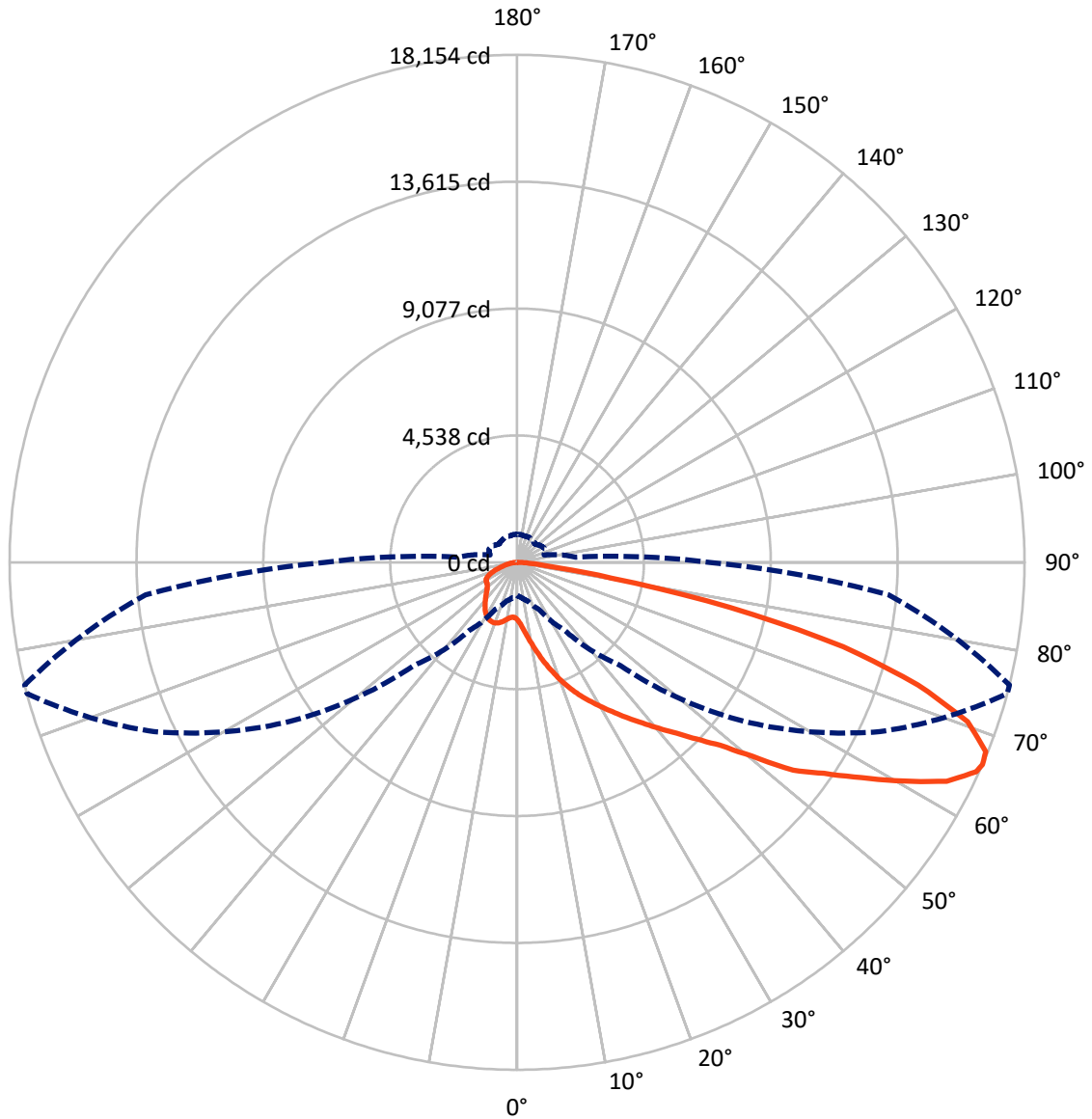
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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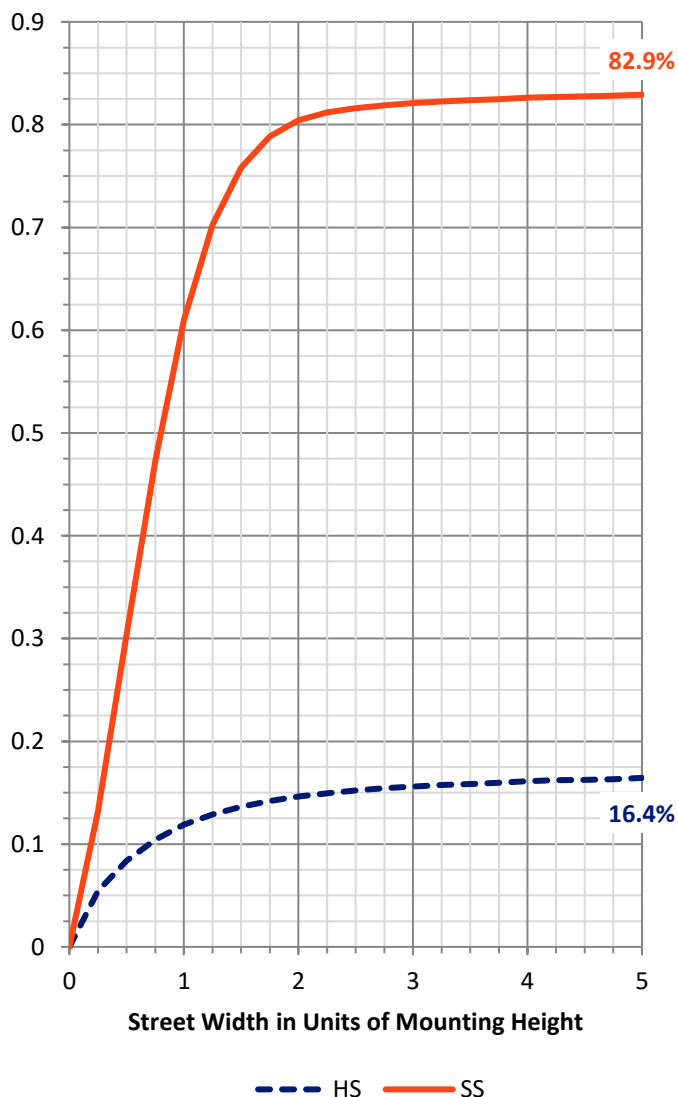
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3785.5	0.0	3785.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	18711.5	0.0	18711.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	22497.0	0.0	22497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.4	1.1
10°-20°	981.1	4.4
20°-30°	1906.5	8.5
30°-40°	3111.8	13.8
40°-50°	4251.5	18.9
50°-60°	4952.1	22.0
60°-70°	4439.7	19.7
70°-80°	2243.6	10.0
80°-90°	362.3	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°	22497.0	100.0
0°-180°	22497.0	100.0

Coefficient of Utilization



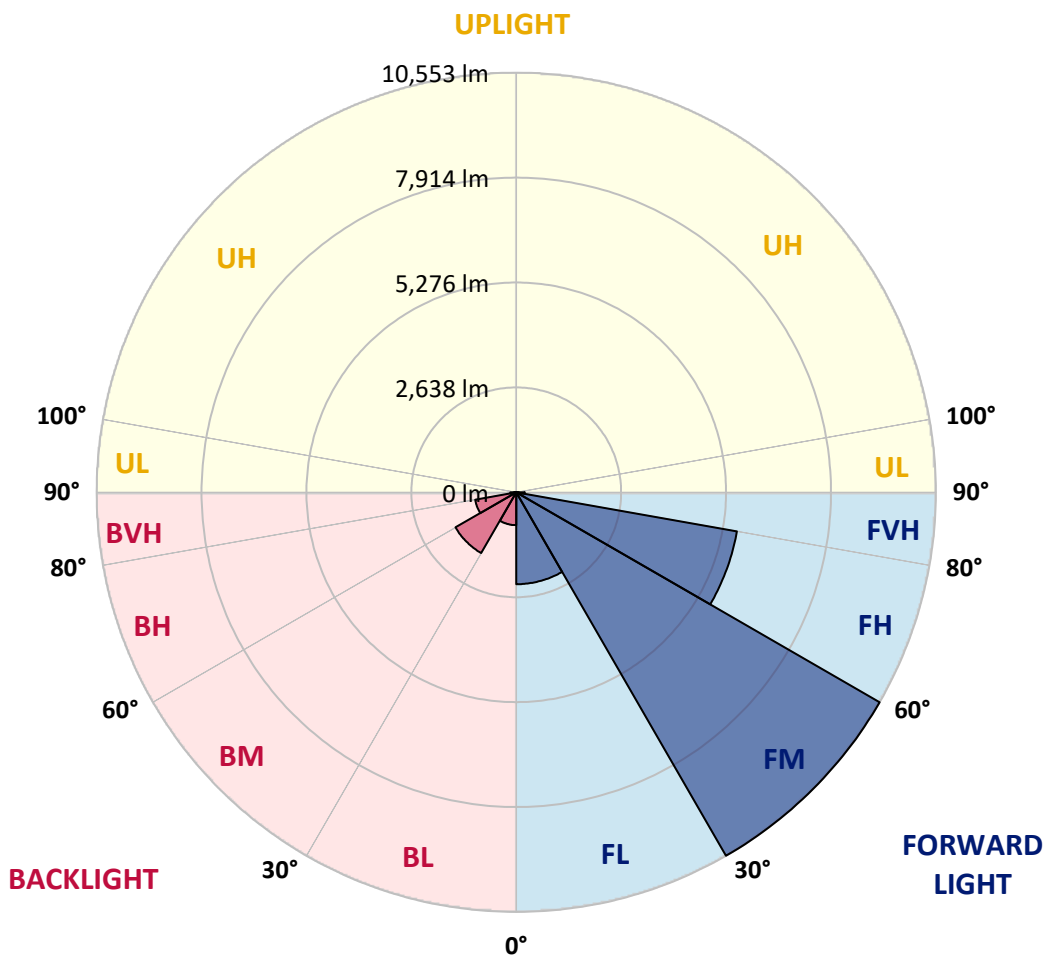
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2310.4	10.3			
FM (30°-60°)	10552.7	46.9			
FH (60°-80°)	5634.5	25.0			G3/7500
FVH (80°-90°)	214.0	1.0			G2/225
BL (0°-30°)	825.6	3.7	B2/1000		
BM (30°-60°)	1762.8	7.8	B2/2500		
BH (60°-80°)	1048.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	148.3	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2054.5	2054.5	2054.5	2054.5	2054.5	2054.5	2054.5	2054.5	2054.5	2054.5	2054.5
2.5°	2727.3	2686.1	2682.3	2621.9	2608.2	2492.9	2408.1	2319.5	2218.7	2198.8	2119.4
5°	3503.3	3499.5	3446.8	3348.3	3271.1	3074.1	2879.3	2673.1	2447.1	2410.4	2231.7
7.5°	4201.4	4195.3	4154.8	4048.6	3937.1	3695.0	3417.0	3100.8	2734.2	2680.0	2383.7
10°	4731.4	4729.1	4715.4	4637.5	4542.8	4310.6	4003.6	3572.1	3068.0	2993.9	2573.8
12.5°	5140.8	5145.4	5154.5	5127.0	5082.0	4884.2	4569.5	4071.5	3423.9	3350.6	2785.4
15°	5418.0	5431.8	5479.1	5518.1	5541.8	5420.3	5115.6	4582.5	3822.6	3734.7	3019.9
17.5°	5557.8	5573.1	5654.8	5772.4	5880.9	5868.6	5626.5	5069.8	4205.2	4120.4	3271.9
20°	5678.5	5689.9	5781.6	5922.9	6114.6	6199.3	6063.4	5538.7	4624.5	4523.7	3539.2
22.5°	6028.3	6042.8	6070.3	6150.5	6320.0	6475.8	6410.1	5982.4	5008.7	4914.7	3792.8
25°	6703.4	6721.0	6661.4	6593.4	6625.5	6734.0	6746.2	6387.2	5398.2	5292.0	4065.4
27.5°	7516.8	7542.0	7440.4	7265.5	7112.8	7070.8	7056.3	6718.7	5770.1	5647.2	4335.0
30°	8313.4	8356.9	8224.8	7998.0	7717.7	7520.6	7374.8	7043.3	6136.7	6019.1	4589.4
32.5°	9091.7	9074.1	8882.4	8660.9	8332.5	8085.8	7733.0	7391.6	6549.1	6414.0	4842.2
35°	9624.8	9630.9	9452.9	9190.2	8877.0	8687.6	8212.6	7767.3	6970.0	6845.5	5129.3
37.5°	10078.4	10050.2	9848.5	9603.4	9333.8	9252.8	8773.9	8181.3	7425.9	7290.0	5434.8
40°	10229.6	10196.8	10064.7	9888.3	9672.1	9665.2	9393.3	8650.2	7941.5	7807.0	5779.3
42.5°	10138.0	10096.0	10041.8	9993.6	9927.2	9957.8	9975.3	9200.1	8508.2	8357.7	6178.0
45°	9799.7	9736.3	9774.5	9879.1	10023.4	10196.0	10500.8	9808.8	9142.8	9016.8	6646.1
47.5°	9279.5	9222.3	9341.4	9565.2	9957.8	10394.6	10998.0	10480.9	9900.5	9775.2	7312.9
50°	8547.9	8564.7	8735.0	9142.1	9735.5	10486.3	11610.5	11370.7	11001.8	10884.9	8222.5
52.5°	7347.3	7350.3	7829.9	8498.2	9341.4	10438.9	11950.4	12507.9	12505.6	12364.3	9088.6
55°	6232.2	6300.2	6679.7	7568.0	8702.9	10249.5	12187.9	13060.9	13493.1	13327.4	9895.9
57.5°	5143.1	5182.8	5542.5	6434.6	7791.8	9744.7	12431.5	13724.6	14631.1	14526.5	10899.5
60°	3904.3	3965.4	4337.3	5161.4	6626.3	8848.8	12454.4	14417.3	15991.4	15886.0	12019.9
62.5°	2534.1	2639.5	2987.8	3759.9	5216.4	7560.3	11922.9	14870.2	17280.6	17243.2	13014.3
65°	1456.5	1535.9	1778.0	2373.7	3598.8	5942.7	10658.9	14696.0	18074.1	18052.7	13386.2
66°	1189.9	1239.6	1425.2	1855.1	2969.5	5218.7	9924.1	14328.7	18152.8	18153.5	13343.5
67.5°	951.6	973.8	1057.0	1328.2	2191.2	4136.5	8611.3	13518.3	18055.0	18081.7	13067.7
70°	787.4	798.9	824.8	890.5	1196.0	2494.4	6112.3	11412.7	17073.6	17094.2	11991.6
72.5°	706.5	713.3	723.3	732.4	843.9	1393.8	3733.2	9129.8	14969.5	14996.2	10351.8
75°	640.0	643.8	642.3	643.1	708.0	888.2	1929.2	6816.5	12103.9	12050.4	7930.0
77.5°	562.1	565.9	558.3	559.8	626.3	682.8	960.0	4771.9	8168.3	7791.0	4467.9
80°	475.1	478.1	475.1	480.4	545.3	515.5	558.3	2684.6	3611.8	3416.2	1588.6
82.5°	359.0	371.9	381.1	402.5	449.1	366.6	373.5	1045.6	1099.8	1047.1	487.3
85°	157.3	191.7	287.2	307.8	337.6	220.0	245.2	426.2	447.6	433.8	177.2
87.5°	41.2	45.1	142.1	178.7	187.1	99.3	127.5	194.0	204.7	194.0	58.8
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°	2054.5	2054.5	2054.5	2054.5	2054.5	2054.5	2054.5	2054.5	2054.5	2054.5	2054.5
2.5°	2077.4	2040.0	1972.8	1913.2	1868.1	1837.6	1807.0	1791.8	1782.6	1773.4	1775.0
5°	2143.8	2068.2	1952.9	1871.2	1825.4	1796.3	1781.1	1775.0	1771.1	1762.0	1762.0
7.5°	2243.9	2137.0	1978.1	1894.1	1858.2	1836.1	1826.9	1823.8	1819.2	1808.6	1810.1
10°	2369.9	2220.2	2030.8	1949.1	1916.2	1891.8	1878.8	1874.2	1865.8	1853.6	1855.1
12.5°	2518.1	2323.3	2100.3	2014.8	1975.1	1942.2	1920.8	1907.8	1893.3	1877.3	1878.1
15°	2680.0	2435.6	2175.2	2073.6	2019.4	1973.5	1939.2	1917.0	1894.1	1874.2	1873.5
17.5°	2844.2	2544.0	2232.4	2105.7	2032.3	1972.0	1925.4	1891.0	1862.8	1838.3	1836.1
20°	3021.4	2641.8	2264.5	2102.6	2007.9	1936.1	1874.2	1831.5	1800.2	1775.7	1771.9
22.5°	3201.6	2733.5	2269.9	2071.3	1953.7	1865.8	1800.9	1753.6	1721.5	1696.3	1687.1
25°	3366.6	2804.5	2247.7	2010.9	1878.1	1783.4	1720.0	1671.8	1645.9	1616.1	1606.9
27.5°	3517.1	2854.1	2203.4	1933.8	1793.3	1700.1	1640.5	1599.3	1571.0	1548.1	1540.5
30°	3652.2	2880.9	2130.9	1842.2	1706.2	1621.4	1571.0	1542.8	1518.3	1489.3	1484.0
32.5°	3780.6	2880.9	2037.7	1742.1	1619.9	1551.9	1522.2	1504.6	1477.1	1448.8	1441.2
35°	3908.9	2863.3	1927.7	1637.5	1540.5	1502.3	1500.8	1480.1	1438.1	1400.0	1390.0
37.5°	4044.0	2827.4	1804.0	1539.7	1475.6	1480.1	1493.1	1447.3	1387.7	1333.5	1319.0
40°	4196.8	2777.8	1675.7	1454.9	1421.3	1470.2	1472.5	1400.0	1283.9	1234.2	1221.2
42.5°	4376.3	2728.1	1556.5	1380.1	1378.6	1440.4	1433.6	1297.6	1228.1	1202.9	1196.0
45°	4612.3	2699.9	1443.5	1309.1	1345.0	1392.3	1367.1	1241.1	1212.1	1197.6	1191.4
47.5°	4984.2	2714.4	1339.6	1252.5	1311.4	1344.2	1243.4	1218.2	1197.6	1180.0	1173.9
50°	5450.1	2706.0	1255.6	1213.6	1273.2	1293.8	1187.6	1188.4	1177.7	1157.8	1148.7
52.5°	5800.7	2640.3	1201.4	1191.4	1239.6	1204.4	1152.5	1159.4	1154.0	1125.0	1115.1
55°	6139.0	2583.8	1173.9	1183.0	1215.1	1092.9	1111.3	1128.1	1122.7	1094.5	1089.9
57.5°	6559.8	2573.1	1157.1	1185.3	1194.5	1037.2	1071.5	1093.7	1089.9	1077.6	1075.4
60°	7075.4	2576.1	1141.8	1189.2	1171.6	995.9	1034.1	1062.4	1064.7	1062.4	1060.8
62.5°	7358.7	2492.9	1103.6	1178.5	1131.1	960.0	995.2	1036.4	1037.2	1041.8	1041.0
65°	7118.1	2243.9	1032.6	1141.0	1063.1	930.2	961.6	1006.6	995.2	1015.8	1015.8
66°	6884.4	2100.3	997.5	1116.6	1034.1	918.8	950.9	991.3	976.8	1005.1	1005.1
67.5°	6407.1	1858.2	934.1	1064.7	992.9	902.8	938.6	966.1	946.3	988.3	985.2
70°	5534.9	1437.4	806.5	947.0	924.9	879.1	921.8	915.7	886.7	950.9	938.6
72.5°	4666.5	1092.2	647.7	792.8	821.8	849.3	898.2	851.6	814.9	860.0	833.2
75°	3620.9	821.0	511.7	616.3	694.2	802.7	869.9	777.5	724.8	720.2	705.7
77.5°	1957.5	563.6	405.6	470.5	551.4	744.7	850.8	698.1	618.6	600.3	588.9
80°	775.2	366.6	294.8	356.7	385.7	660.6	805.0	605.7	510.2	491.9	474.3
82.5°	320.0	216.9	190.2	239.1	251.3	565.2	722.5	496.4	394.1	545.3	578.9
85°	137.5	119.1	113.0	123.7	142.1	396.4	575.1	378.8	425.4	379.6	301.7
87.5°	41.2	50.4	48.1	47.4	51.9	94.7	306.3	210.8	312.4	118.4	88.6
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)