

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: P654499

Luminaire Tested: **GLAN-SA7B-840-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P654499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7B-840-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 33968.8 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

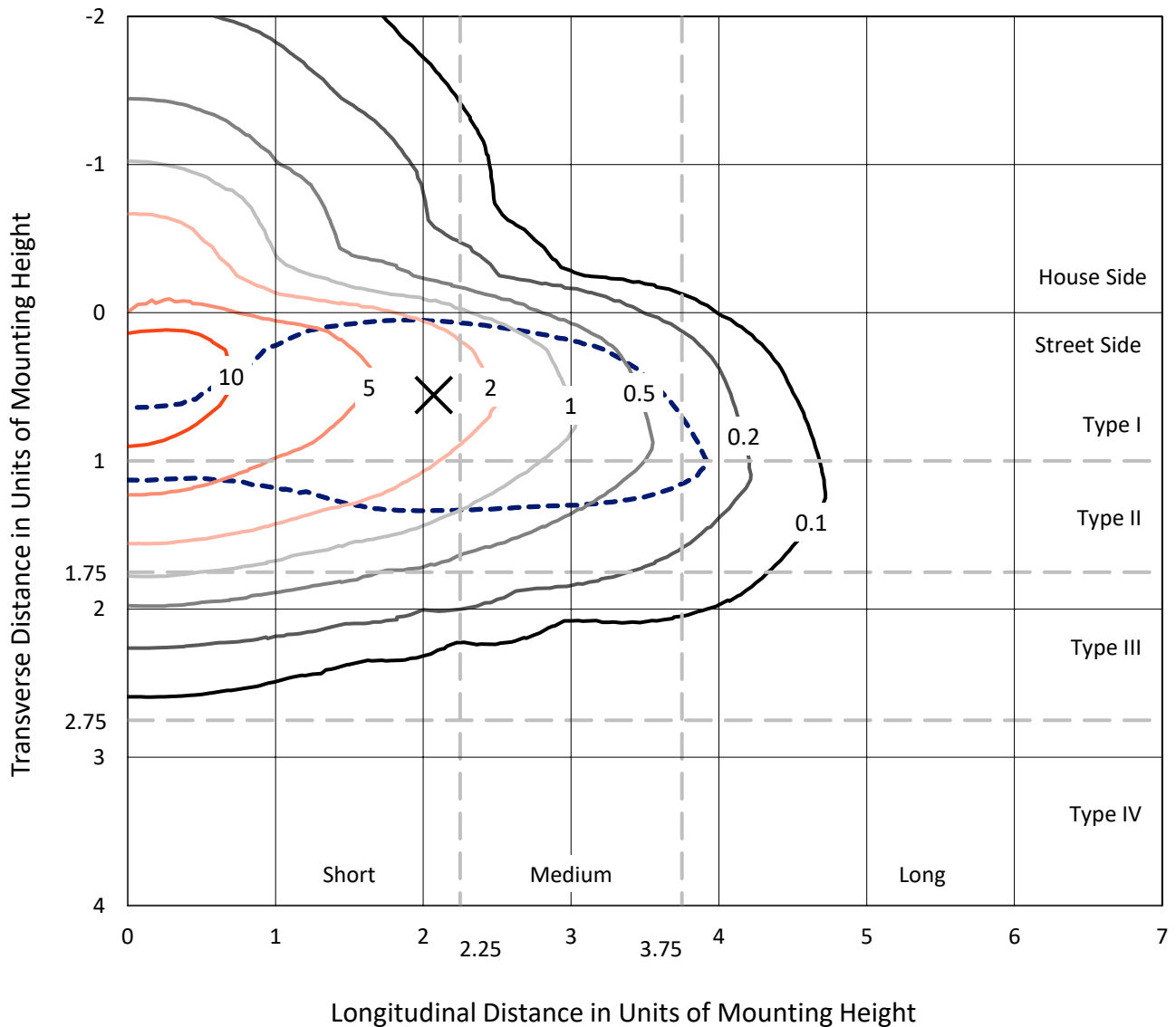
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

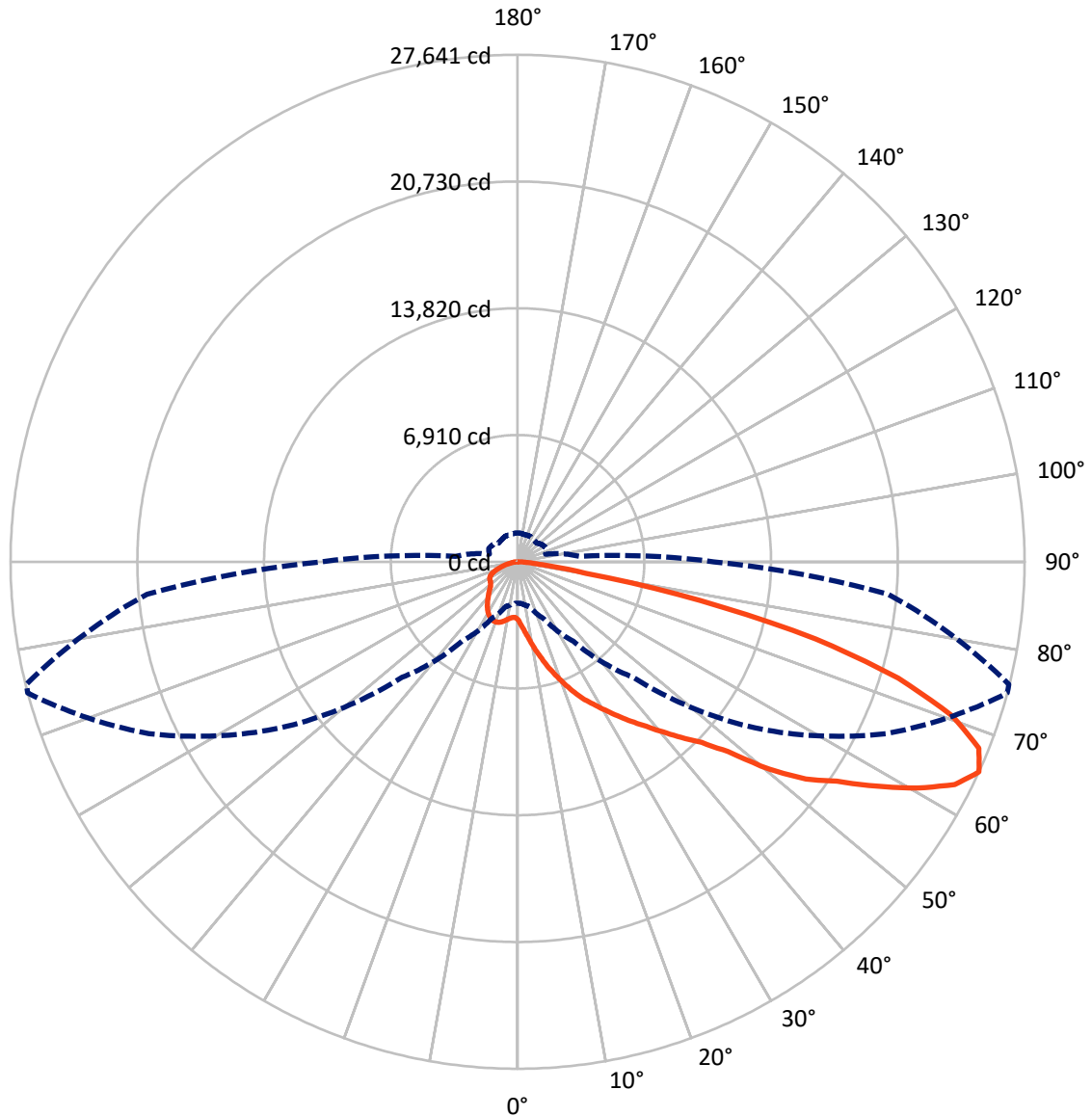
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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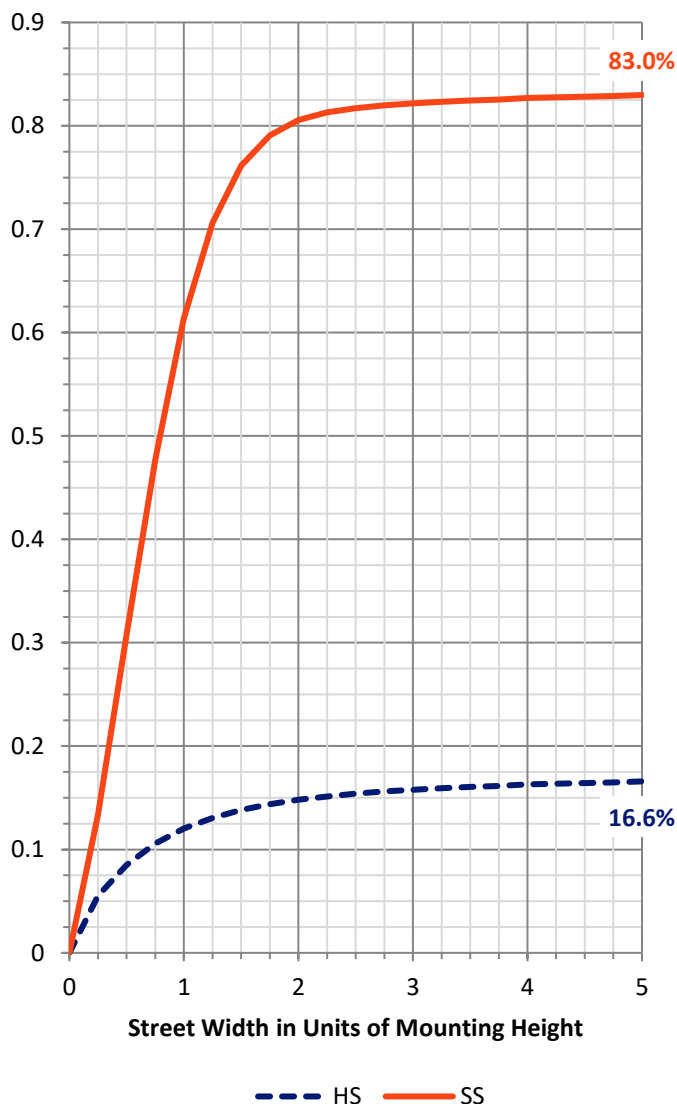
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5710.6	0.0	5710.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	28258.2	0.0	28258.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	33968.8	0.0	33968.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.5	1.1
10°-20°	1502.0	4.4
20°-30°	2901.3	8.5
30°-40°	4712.6	13.9
40°-50°	6482.5	19.1
50°-60°	7653.7	22.5
60°-70°	6705.9	19.7
70°-80°	3201.4	9.4
80°-90°	426.0	1.3
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°	33968.8	100.0
0°-180°	33968.8	100.0

Coefficient of Utilization



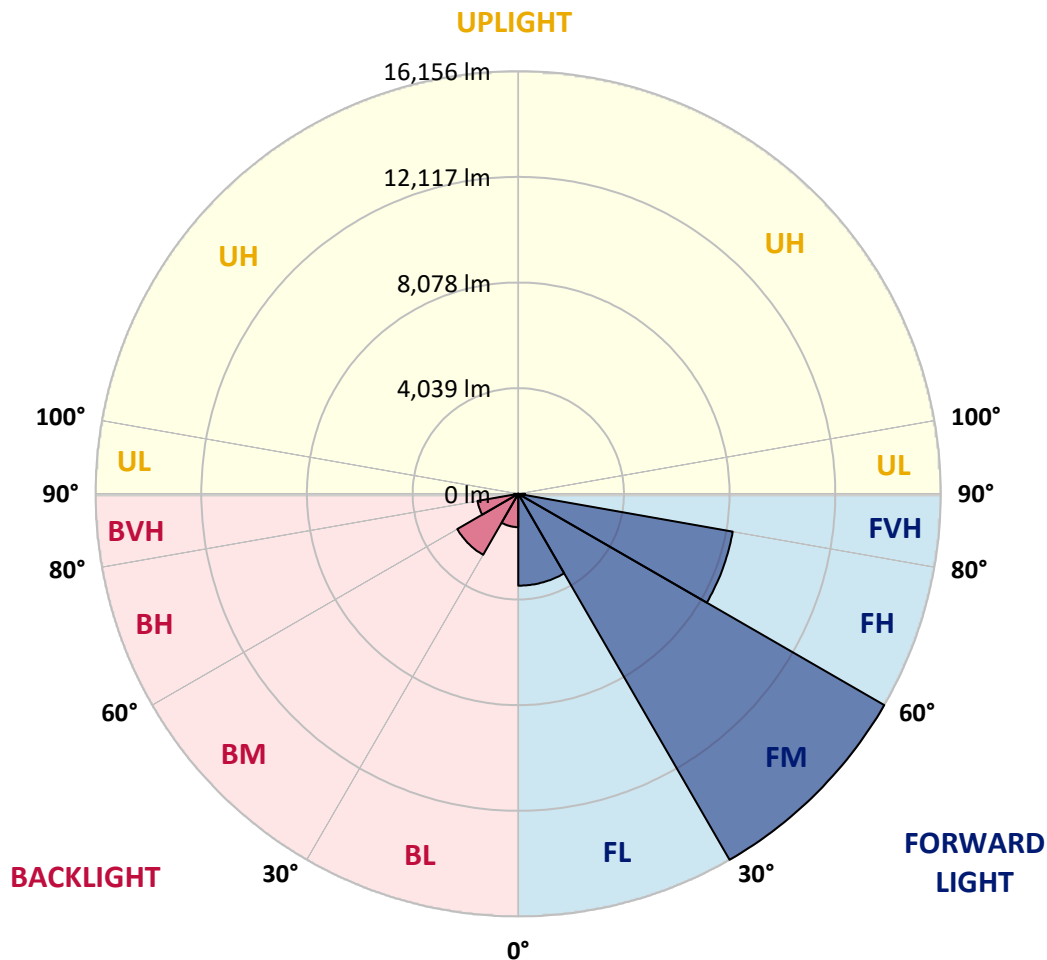
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3511.8	10.3			
FM (30°-60°)	16156.3	47.6			
FH (60°-80°)	8323.9	24.5			G4/12000
FVH (80°-90°)	266.2	0.8			G3/500
BL (0°-30°)	1274.9	3.8	B3/2500		
BM (30°-60°)	2692.5	7.9	B3/5000		
BH (60°-80°)	1583.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	159.8	0.5			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°	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1
2.5°	4193.5	4165.8	4136.3	4055.2	3968.7	3871.0	3731.0	3596.5	3417.7	3412.3	3279.6
5°	5356.0	5337.6	5206.8	5131.3	4930.4	4663.3	4436.6	4084.7	3758.6	3719.9	3462.0
7.5°	6424.7	6352.8	6303.0	6166.7	5967.7	5625.0	5186.5	4711.2	4165.8	4114.2	3686.8
10°	7229.8	7222.4	7196.7	7078.7	6929.5	6588.6	6102.2	5420.5	4681.7	4580.3	3959.4
12.5°	7832.3	7837.8	7834.2	7832.3	7725.4	7436.2	6909.2	6190.7	5203.1	5131.3	4274.5
15°	8228.4	8283.7	8305.8	8397.9	8407.1	8213.7	7760.4	6935.1	5790.9	5684.0	4613.6
17.5°	8490.1	8517.7	8620.8	8777.5	8904.6	8869.6	8466.1	7624.1	6391.5	6212.8	4965.4
20°	8740.6	8788.5	8867.8	9081.5	9306.3	9409.4	9125.7	8329.8	6986.6	6872.4	5354.2
22.5°	9262.0	9330.2	9357.9	9466.5	9658.2	9840.5	9711.6	9005.9	7638.8	7484.1	5766.9
25°	10144.6	10216.5	10139.1	10113.3	10175.9	10266.2	10238.6	9643.4	8254.2	8033.1	6157.5
27.5°	11294.3	11303.5	11152.4	11008.7	10853.9	10807.9	10723.1	10209.1	8788.5	8604.3	6550.0
30°	12528.7	12484.5	12233.9	11974.2	11712.5	11454.6	11211.4	10754.5	9383.6	9171.8	6935.1
32.5°	13674.7	13650.8	13372.6	12969.1	12526.9	12283.6	11791.7	11305.3	10021.1	9816.7	7331.2
35°	14533.3	14568.3	14262.5	13822.2	13339.4	13123.8	12502.9	11883.8	10680.7	10457.8	7762.3
37.5°	15143.2	15124.7	14853.9	14472.5	14048.7	13860.9	13333.9	12515.8	11390.1	11176.4	8234.0
40°	15360.6	15349.5	15148.7	14870.5	14601.5	14535.2	14203.5	13197.6	12202.6	11952.0	8801.4
42.5°	15222.4	15246.3	15113.7	15038.2	14988.4	15036.3	15067.6	14091.1	13088.8	12858.6	9416.8
45°	14798.7	14785.7	14767.3	14890.7	15170.8	15485.8	15922.6	14935.0	14052.4	13868.2	10242.2
47.5°	14041.4	14133.5	14179.6	14520.5	15132.1	15878.3	16906.4	16066.2	15450.9	15290.6	11500.7
50°	12982.0	13055.7	13328.3	13934.5	14846.5	16025.7	17868.1	17916.1	17783.4	17483.1	12867.7
52.5°	11327.4	11441.6	12003.6	13114.6	14260.7	15964.9	18450.4	19502.5	19677.5	19452.7	14214.6
55°	9475.8	9636.1	10229.3	11686.7	13453.6	15633.3	18852.0	20421.8	21120.1	20911.9	15511.7
57.5°	7662.8	7832.3	8442.1	9853.5	12046.0	14900.0	19115.5	21446.3	23084.2	22813.3	17125.7
60°	5742.9	5919.8	6443.1	7896.8	10041.4	13466.5	18936.8	22334.3	25046.4	24930.4	18741.5
62.5°	3705.2	3900.5	4355.5	5558.7	7718.0	11508.0	17980.6	22824.4	26745.1	26605.1	19920.7
65°	2257.0	2279.1	2529.7	3451.0	5282.3	8910.1	15793.6	22174.0	27640.6	27598.2	20280.0
67.5°	1459.2	1494.2	1608.5	2067.3	3167.2	6188.8	12628.2	20027.6	27117.3	27102.6	19537.4
70°	1232.6	1243.7	1295.2	1394.7	1840.6	3753.1	8867.8	16606.0	25129.3	25129.3	17752.1
72.5°	1101.8	1116.5	1134.9	1166.3	1313.6	2126.2	5291.6	12926.7	21696.8	21840.5	15110.0
75°	1000.5	996.8	1007.9	1013.3	1120.2	1389.2	2736.0	9560.5	16784.8	16497.4	10942.3
77.5°	856.7	862.3	856.7	880.7	989.4	1057.6	1389.2	6415.5	10172.2	9800.0	5492.4
80°	703.8	713.0	722.3	737.0	845.7	803.3	834.6	2924.0	3762.3	3683.1	1696.9
82.5°	528.8	541.7	556.4	591.4	665.1	530.6	527.0	1249.2	1357.9	1243.7	624.6
85°	213.7	252.4	381.4	416.4	418.2	291.1	324.3	521.4	554.6	541.7	245.1
87.5°	49.8	59.0	123.5	186.1	171.3	108.7	119.8	169.5	193.4	178.7	82.9
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°	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1
2.5°	3218.8	3154.3	3043.7	2959.0	2898.2	2844.8	2811.6	2791.4	2784.0	2782.1	2784.0
5°	3327.5	3213.2	3038.2	2927.7	2866.9	2831.9	2811.6	2809.8	2811.6	2813.4	2807.9
7.5°	3476.7	3312.8	3084.3	2981.1	2935.0	2909.3	2900.0	2896.3	2898.2	2896.3	2896.3
10°	3675.7	3451.0	3174.5	3067.7	3029.0	2999.5	2984.8	2975.5	2968.2	2960.8	2957.1
12.5°	3894.9	3603.9	3272.2	3169.1	3113.7	3067.7	3034.5	3010.6	2994.0	2977.4	2973.7
15°	4140.0	3766.0	3380.9	3237.2	3158.0	3089.8	3032.7	2994.0	2964.5	2940.6	2938.7
17.5°	4374.0	3918.9	3454.6	3268.5	3152.5	3056.6	2981.1	2927.7	2890.9	2859.5	2855.8
20°	4624.6	4064.5	3487.8	3248.3	3097.2	2981.1	2881.6	2817.1	2774.7	2739.7	2734.2
22.5°	4877.0	4187.9	3484.1	3183.8	3001.4	2865.0	2760.0	2691.9	2642.1	2607.1	2594.1
25°	5118.3	4287.4	3438.0	3080.6	2868.7	2726.9	2620.0	2557.3	2513.1	2470.8	2470.8
27.5°	5335.7	4346.4	3351.5	2955.3	2732.4	2583.1	2498.4	2441.3	2400.7	2373.0	2356.5
30°	5549.5	4374.0	3233.5	2796.8	2588.7	2461.5	2393.3	2360.2	2323.3	2292.1	2288.4
32.5°	5741.1	4368.5	3086.1	2642.1	2452.3	2362.0	2334.4	2308.6	2269.9	2225.7	2214.6
35°	5927.2	4331.7	2911.1	2472.5	2338.1	2303.1	2310.5	2273.6	2203.6	2148.3	2139.1
37.5°	6129.9	4265.3	2719.5	2334.4	2242.3	2275.4	2293.8	2212.8	2098.5	2011.9	1991.7
40°	6363.8	4189.8	2520.5	2196.2	2166.8	2249.7	2249.7	2100.4	1943.8	1890.4	1875.6
42.5°	6638.3	4127.1	2354.6	2080.1	2104.1	2187.0	2177.8	1951.2	1886.7	1859.0	1851.7
45°	7073.2	4105.0	2183.3	1978.8	2052.5	2113.3	2037.7	1899.6	1862.7	1840.6	1833.2
47.5°	7760.4	4130.8	2032.2	1903.3	1993.5	2039.6	1881.1	1864.6	1838.8	1807.5	1803.8
50°	8397.9	4106.9	1925.4	1860.9	1942.0	1951.2	1816.6	1822.2	1807.5	1772.4	1765.1
52.5°	8919.3	4031.3	1857.2	1838.8	1897.7	1796.4	1755.8	1776.1	1770.6	1726.4	1719.0
55°	9492.4	3985.2	1824.0	1838.8	1868.3	1661.9	1698.7	1728.3	1720.9	1689.6	1687.7
57.5°	10186.9	3994.4	1800.1	1844.3	1838.8	1593.7	1641.6	1676.6	1674.8	1665.6	1665.6
60°	10898.2	3998.1	1763.2	1842.5	1803.8	1540.3	1582.7	1632.4	1636.1	1641.6	1641.6
62.5°	11134.0	3837.8	1691.4	1809.3	1726.4	1488.7	1527.4	1595.5	1591.8	1606.6	1608.5
65°	10693.7	3393.8	1584.5	1733.7	1626.9	1451.8	1485.0	1547.7	1527.4	1566.1	1573.4
67.5°	9733.7	2807.9	1418.7	1597.4	1516.3	1413.1	1457.4	1481.3	1444.5	1520.0	1521.9
70°	8412.7	2192.5	1208.7	1404.0	1391.1	1372.6	1435.3	1398.4	1346.9	1439.0	1420.5
72.5°	7034.5	1674.8	965.5	1147.9	1223.4	1311.8	1396.6	1291.5	1219.7	1247.4	1214.2
75°	5284.2	1238.1	775.7	899.1	1018.9	1225.3	1361.6	1162.6	1052.0	1026.3	1018.9
77.5°	2693.6	808.9	580.4	672.5	764.6	1107.3	1313.6	1011.5	871.4	830.9	812.5
80°	961.8	503.0	409.1	464.3	515.9	952.5	1147.9	836.5	676.2	668.8	676.2
82.5°	445.9	324.3	274.5	304.0	305.9	635.6	875.1	624.6	514.0	781.2	659.6
85°	191.6	162.1	154.7	151.0	140.0	283.8	491.9	335.3	523.3	234.0	215.5
87.5°	57.1	64.5	57.1	42.4	31.3	31.3	49.8	18.4	12.9	9.3	9.3
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)