

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: P317436

Luminaire Tested: **GAN-SA2B-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317436
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-SA2B-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 12181 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 85
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

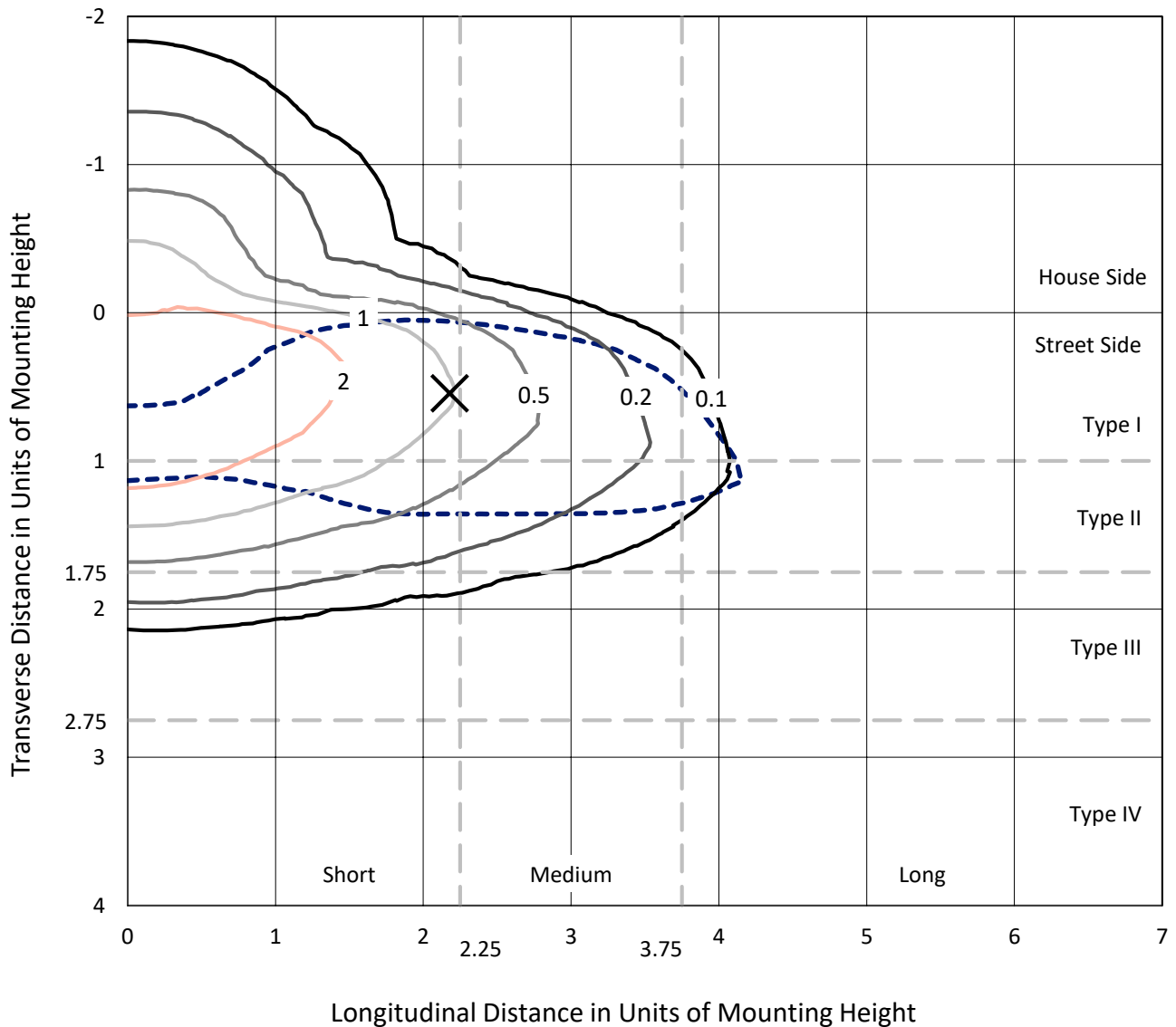




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Iso-Footcandle Lines of Horizontal Illumination

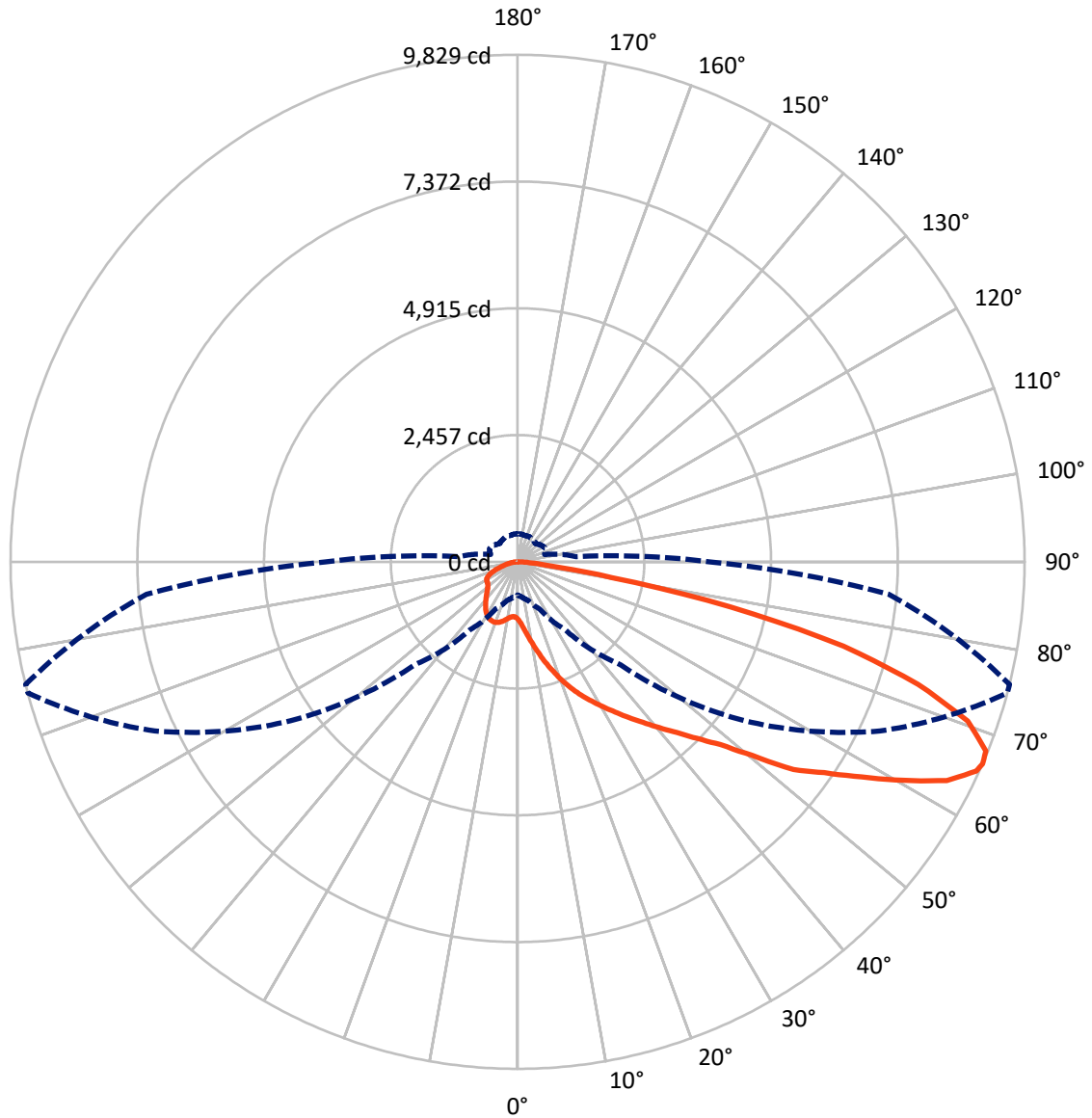
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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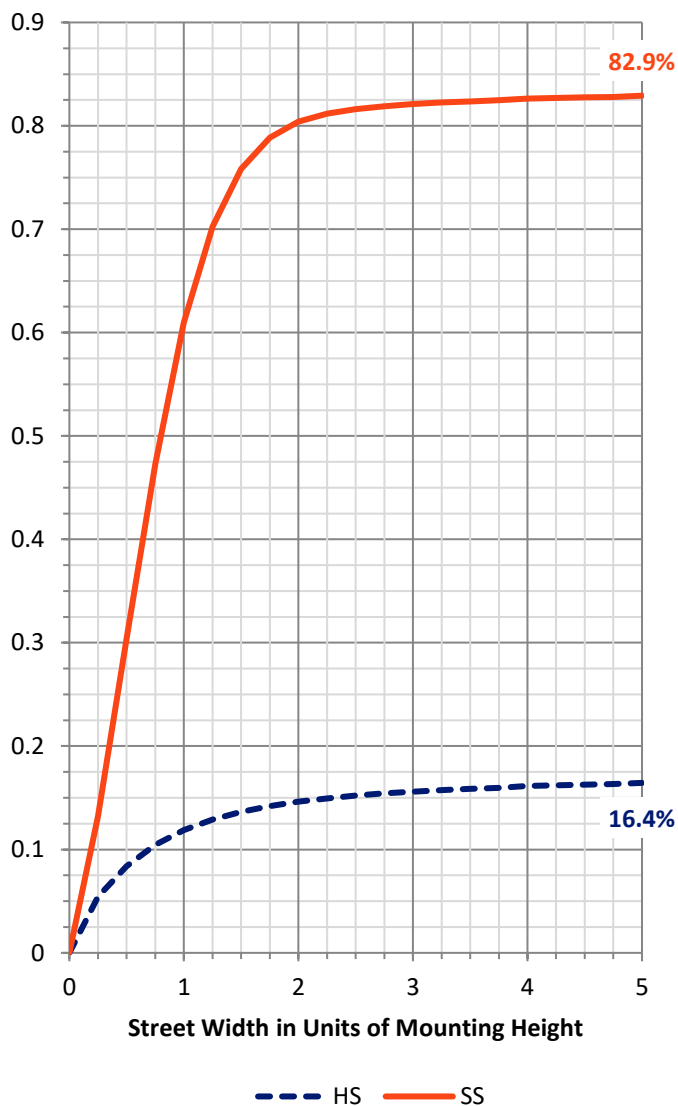
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2049.6	0.0	2049.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	10131.4	0.0	10131.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	12181.0	0.0	12181.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	1.1
10°-20°	531.2	4.4
20°-30°	1032.3	8.5
30°-40°	1684.9	13.8
40°-50°	2302.0	18.9
50°-60°	2681.3	22.0
60°-70°	2403.9	19.7
70°-80°	1214.8	10.0
80°-90°	196.2	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°	12181.0	100.0
0°-180°	12181.0	100.0

Coefficient of Utilization

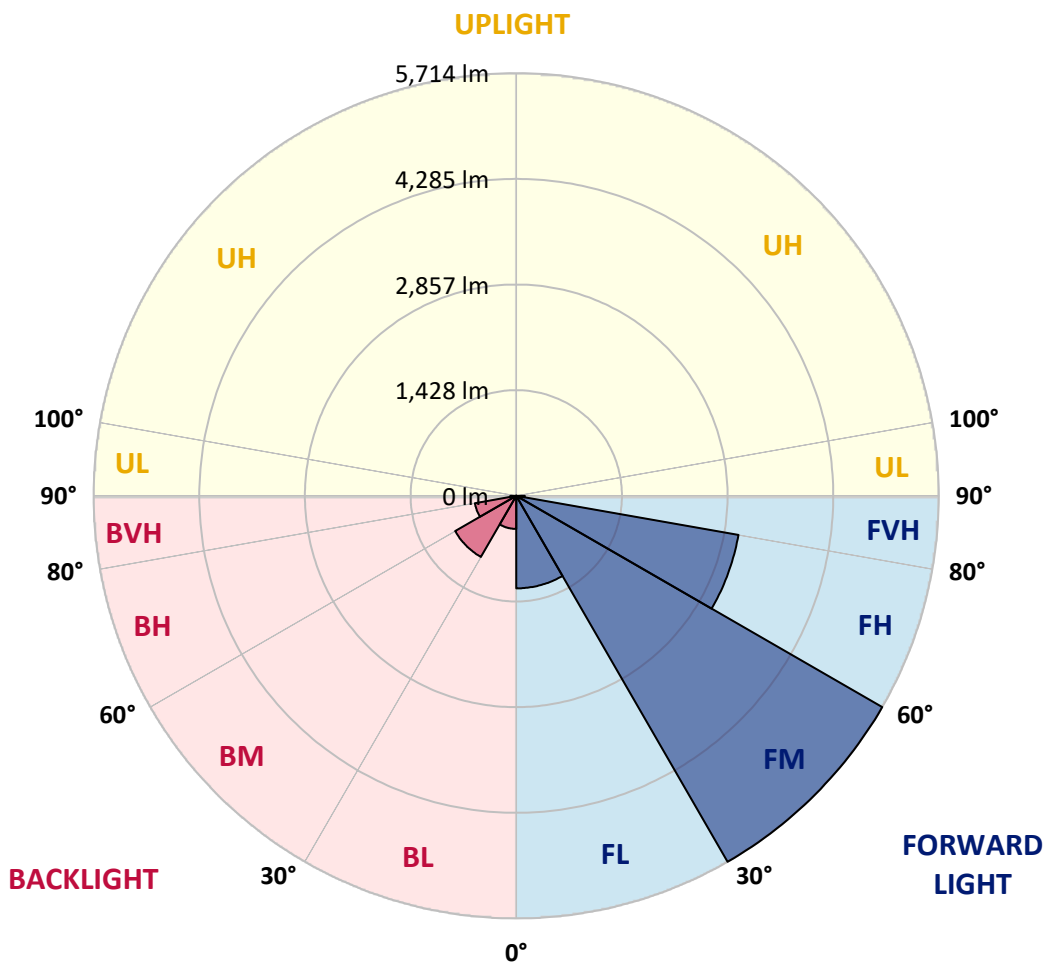


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1251.0	10.3			
FM (30°-60°)	5713.7	46.9			
FH (60°-80°)	3050.8	25.0			G2/5000
FVH (80°-90°)	115.9	1.0			G2/225
BL (0°-30°)	447.0	3.7	B1/500		
BM (30°-60°)	954.4	7.8	B1/1000		
BH (60°-80°)	567.8	4.7	B2/1000		G2/1000
BVH (80°-90°)	80.3	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4
2.5°	1476.7	1454.4	1452.3	1419.7	1412.2	1349.8	1303.9	1255.9	1201.3	1190.6	1147.6
5°	1896.9	1894.8	1866.3	1812.9	1771.2	1664.5	1559.0	1447.4	1325.0	1305.1	1208.3
7.5°	2274.8	2271.5	2249.6	2192.1	2131.8	2000.7	1850.1	1678.9	1480.4	1451.1	1290.6
10°	2561.8	2560.6	2553.1	2511.0	2459.7	2334.0	2167.7	1934.1	1661.2	1621.0	1393.6
12.5°	2783.5	2786.0	2790.9	2776.0	2751.6	2644.5	2474.2	2204.5	1853.9	1814.2	1508.1
15°	2933.6	2941.0	2966.7	2987.8	3000.6	2934.8	2769.8	2481.2	2069.7	2022.2	1635.1
17.5°	3009.3	3017.5	3061.8	3125.5	3184.2	3177.6	3046.5	2745.0	2276.9	2231.0	1771.6
20°	3074.6	3080.8	3130.4	3206.9	3310.7	3356.6	3283.0	2998.9	2503.9	2449.3	1916.3
22.5°	3264.0	3271.9	3286.7	3330.2	3422.0	3506.3	3470.8	3239.2	2711.9	2661.1	2053.6
25°	3629.6	3639.1	3606.8	3570.0	3587.4	3646.1	3652.7	3458.4	2922.8	2865.4	2201.2
27.5°	4070.0	4083.6	4028.6	3933.9	3851.2	3828.5	3820.6	3637.8	3124.2	3057.7	2347.2
30°	4501.3	4524.9	4453.3	4330.5	4178.7	4072.0	3993.1	3813.6	3322.7	3259.0	2484.9
32.5°	4922.7	4913.2	4809.4	4689.4	4511.6	4378.1	4187.0	4002.2	3546.0	3472.8	2621.8
35°	5211.3	5214.6	5118.3	4976.0	4806.5	4703.9	4446.7	4205.6	3773.9	3706.5	2777.3
37.5°	5457.0	5441.7	5332.5	5199.7	5053.8	5009.9	4750.7	4429.8	4020.8	3947.2	2942.7
40°	5538.8	5521.1	5449.5	5354.0	5237.0	5233.2	5086.0	4683.7	4299.9	4227.1	3129.2
42.5°	5489.2	5466.5	5437.1	5411.1	5375.1	5391.6	5401.1	4981.4	4606.7	4525.3	3345.1
45°	5306.0	5271.7	5292.4	5349.0	5427.2	5520.6	5685.6	5311.0	4950.4	4882.2	3598.6
47.5°	5024.4	4993.4	5057.9	5179.1	5391.6	5628.2	5954.9	5674.9	5360.6	5292.8	3959.6
50°	4628.2	4637.3	4729.6	4950.0	5271.3	5677.8	6286.5	6156.7	5956.9	5893.7	4452.1
52.5°	3978.2	3979.8	4239.5	4601.4	5057.9	5652.2	6470.5	6772.4	6771.2	6694.7	4921.0
55°	3374.4	3411.2	3616.7	4097.7	4712.2	5549.6	6599.1	7071.8	7305.9	7216.1	5358.1
57.5°	2784.7	2806.2	3001.0	3484.0	4218.8	5276.2	6731.1	7431.2	7922.0	7865.4	5901.5
60°	2114.0	2147.1	2348.4	2794.6	3587.8	4791.2	6743.5	7806.2	8658.5	8601.5	6508.2
62.5°	1372.1	1429.2	1617.7	2035.8	2824.4	4093.5	6455.6	8051.5	9356.6	9336.3	7046.6
65°	788.6	831.6	962.7	1285.3	1948.6	3217.7	5771.2	7957.2	9786.2	9774.6	7248.0
66°	644.3	671.2	771.6	1004.5	1607.8	2825.7	5373.4	7758.3	9828.8	9829.2	7224.8
67.5°	515.3	527.3	572.3	719.1	1186.4	2239.7	4662.6	7319.5	9775.9	9790.4	7075.5
70°	426.4	432.6	446.6	482.2	647.6	1350.6	3309.5	6179.4	9244.5	9255.7	6492.9
72.5°	382.5	386.2	391.6	396.6	457.0	754.7	2021.3	4943.4	8105.2	8119.7	5605.0
75°	346.5	348.6	347.8	348.2	383.3	480.9	1044.6	3690.8	6553.6	6524.7	4293.7
77.5°	304.4	306.4	302.3	303.1	339.1	369.7	519.8	2583.7	4422.7	4218.4	2419.2
80°	257.2	258.9	257.2	260.1	295.3	279.1	302.3	1453.6	1955.6	1849.7	860.1
82.5°	194.4	201.4	206.4	217.9	243.2	198.5	202.2	566.1	595.5	567.0	263.8
85°	85.2	103.8	155.5	166.7	182.8	119.1	132.7	230.8	242.3	234.9	95.9
87.5°	22.3	24.4	76.9	96.8	101.3	53.8	69.1	105.0	110.8	105.0	31.8
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°	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4	1112.4
2.5°	1124.8	1104.5	1068.2	1035.9	1011.5	995.0	978.4	970.1	965.2	960.2	961.0
5°	1160.8	1119.8	1057.4	1013.2	988.3	972.6	964.4	961.0	959.0	954.0	954.0
7.5°	1215.0	1157.1	1071.0	1025.6	1006.1	994.1	989.2	987.5	985.0	979.2	980.1
10°	1283.2	1202.1	1099.6	1055.3	1037.6	1024.3	1017.3	1014.8	1010.3	1003.6	1004.5
12.5°	1363.4	1258.0	1137.2	1090.9	1069.4	1051.6	1040.0	1033.0	1025.1	1016.5	1016.9
15°	1451.1	1318.8	1177.7	1122.7	1093.4	1068.6	1050.0	1038.0	1025.6	1014.8	1014.4
17.5°	1540.0	1377.5	1208.8	1140.1	1100.4	1067.7	1042.5	1023.9	1008.6	995.4	994.1
20°	1635.9	1430.4	1226.1	1138.5	1087.2	1048.3	1014.8	991.6	974.7	961.5	959.4
22.5°	1733.5	1480.0	1229.0	1121.5	1057.8	1010.3	975.1	949.5	932.1	918.5	913.5
25°	1822.8	1518.5	1217.0	1088.8	1016.9	965.6	931.3	905.2	891.2	875.0	870.1
27.5°	1904.3	1545.4	1193.0	1047.1	971.0	920.5	888.3	865.9	850.6	838.2	834.1
30°	1977.5	1559.8	1153.8	997.4	923.8	877.9	850.6	835.3	822.1	806.4	803.5
32.5°	2047.0	1559.8	1103.3	943.3	877.1	840.3	824.2	814.7	799.8	784.5	780.3
35°	2116.5	1550.3	1043.8	886.6	834.1	813.4	812.6	801.4	778.7	758.0	752.6
37.5°	2189.6	1530.9	976.8	833.7	798.9	801.4	808.5	783.6	751.4	722.0	714.2
40°	2272.4	1504.0	907.3	787.8	769.6	796.0	797.3	758.0	695.1	668.3	661.2
42.5°	2369.5	1477.1	842.8	747.3	746.4	779.9	776.2	702.6	665.0	651.3	647.6
45°	2497.3	1461.8	781.6	708.8	728.2	753.9	740.2	672.0	656.3	648.4	645.1
47.5°	2698.7	1469.7	725.3	678.2	710.0	727.8	673.2	659.6	648.4	638.9	635.6
50°	2951.0	1465.1	679.8	657.1	689.4	700.5	643.0	643.5	637.7	626.9	622.0
52.5°	3140.8	1429.6	650.5	645.1	671.2	652.1	624.0	627.7	624.8	609.1	603.8
55°	3324.0	1399.0	635.6	640.6	657.9	591.8	601.7	610.8	607.9	592.6	590.1
57.5°	3551.8	1393.2	626.5	641.8	646.8	561.6	580.2	592.2	590.1	583.5	582.3
60°	3831.0	1394.8	618.2	643.9	634.4	539.2	559.9	575.2	576.5	575.2	574.4
62.5°	3984.4	1349.8	597.6	638.1	612.4	519.8	538.8	561.2	561.6	564.1	563.6
65°	3854.1	1215.0	559.1	617.8	575.6	503.7	520.6	545.0	538.8	550.0	550.0
66°	3727.6	1137.2	540.1	604.6	559.9	497.5	514.8	536.8	528.9	544.2	544.2
67.5°	3469.1	1006.1	505.7	576.5	537.6	488.8	508.2	523.1	512.4	535.1	533.5
70°	2996.9	778.3	436.7	512.8	500.8	476.0	499.1	495.8	480.1	514.8	508.2
72.5°	2526.7	591.4	350.7	429.2	445.0	459.8	486.3	461.1	441.2	465.6	451.2
75°	1960.6	444.5	277.1	333.7	375.9	434.6	471.0	421.0	392.4	390.0	382.1
77.5°	1059.9	305.2	219.6	254.7	298.6	403.2	460.7	378.0	335.0	325.0	318.8
80°	419.7	198.5	159.6	193.1	208.8	357.7	435.9	327.9	276.2	266.3	256.8
82.5°	173.3	117.4	103.0	129.4	136.1	306.0	391.2	268.8	213.4	295.3	313.5
85°	74.4	64.5	61.2	67.0	76.9	214.6	311.4	205.1	230.3	205.5	163.3
87.5°	22.3	27.3	26.1	25.6	28.1	51.3	165.8	114.1	169.1	64.1	48.0
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)