

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: P317396

Luminaire Tested: **GAN-SA2B-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317396
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-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 11093 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

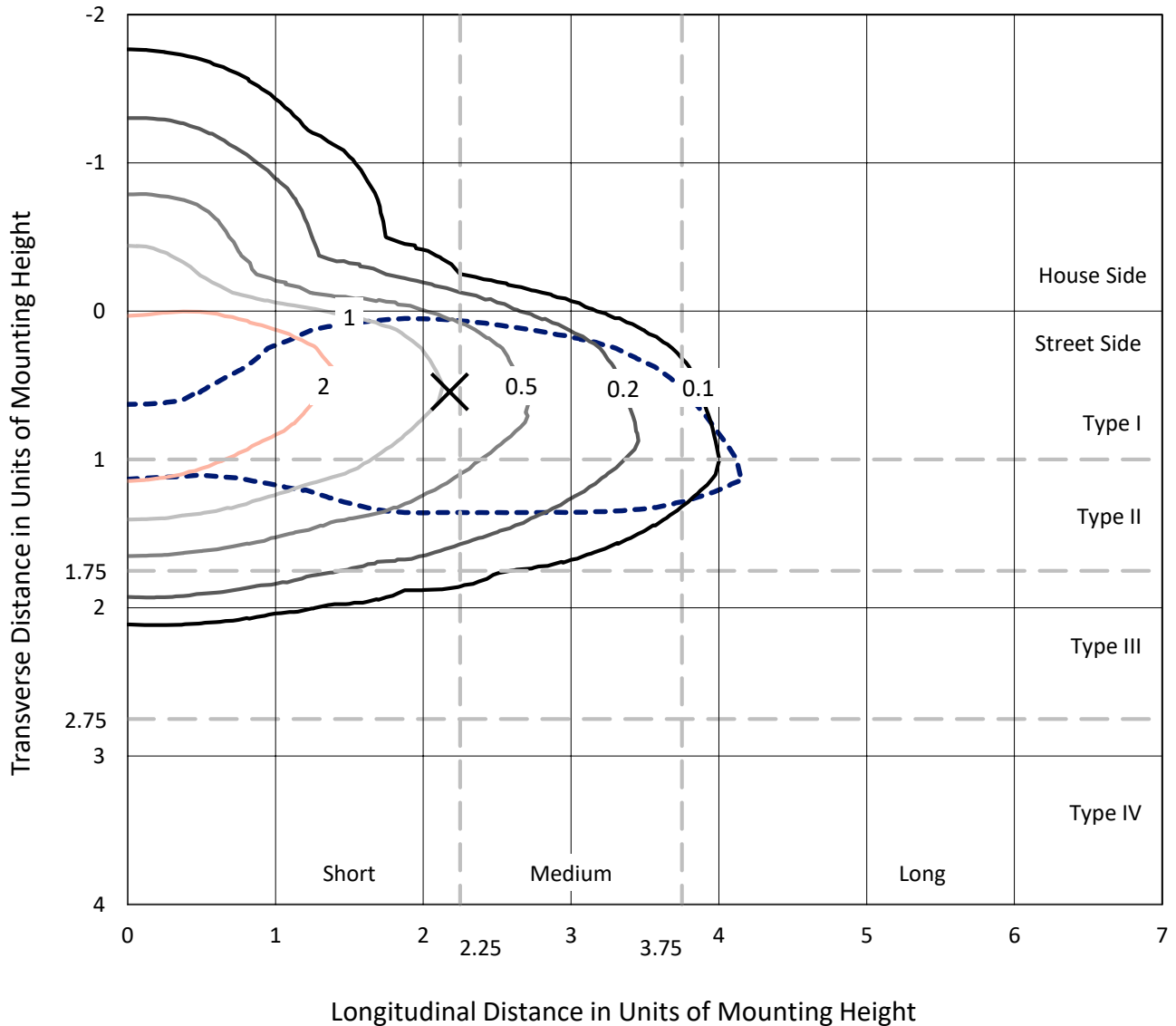
Input Watts (W): 85
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

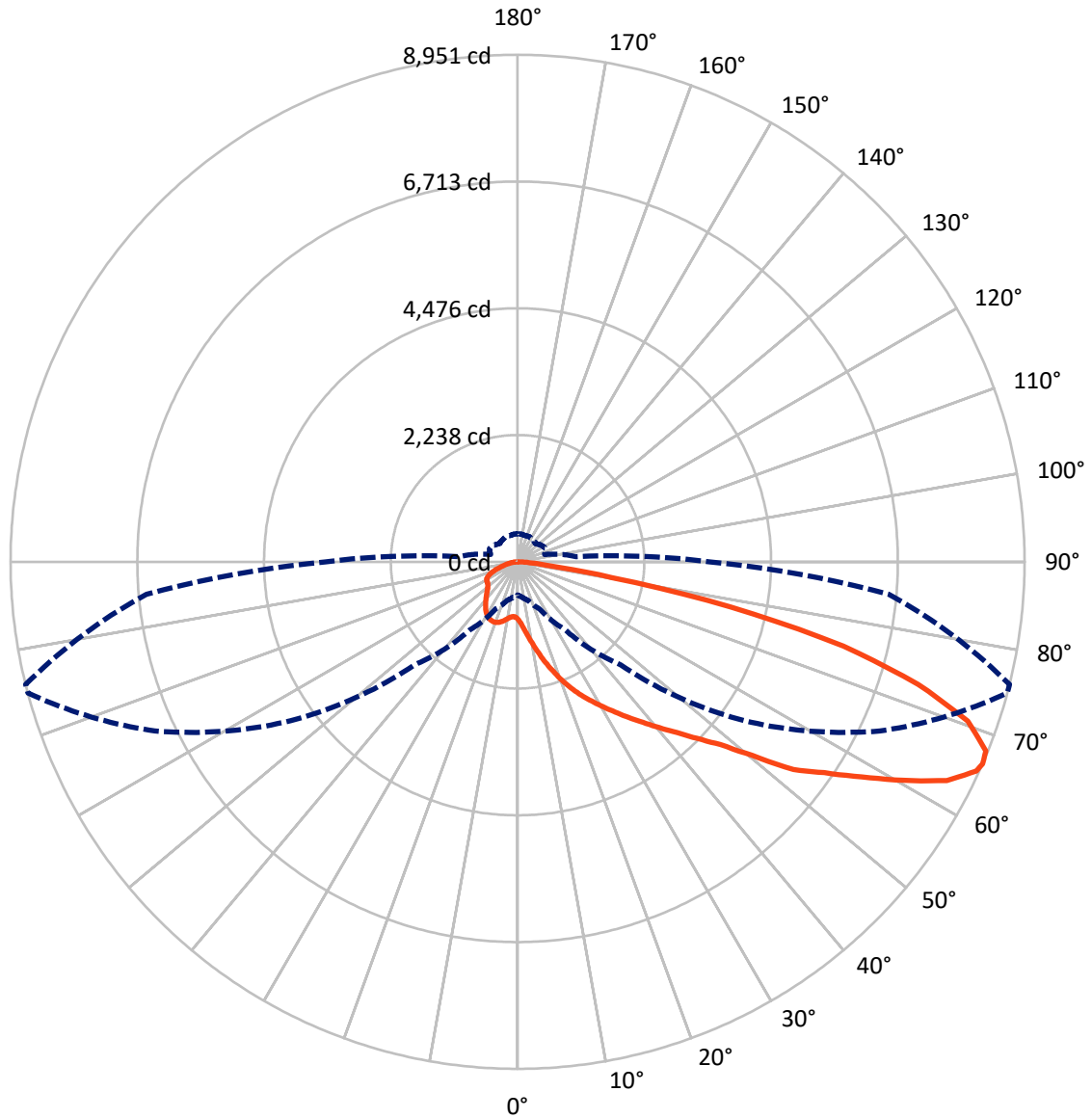
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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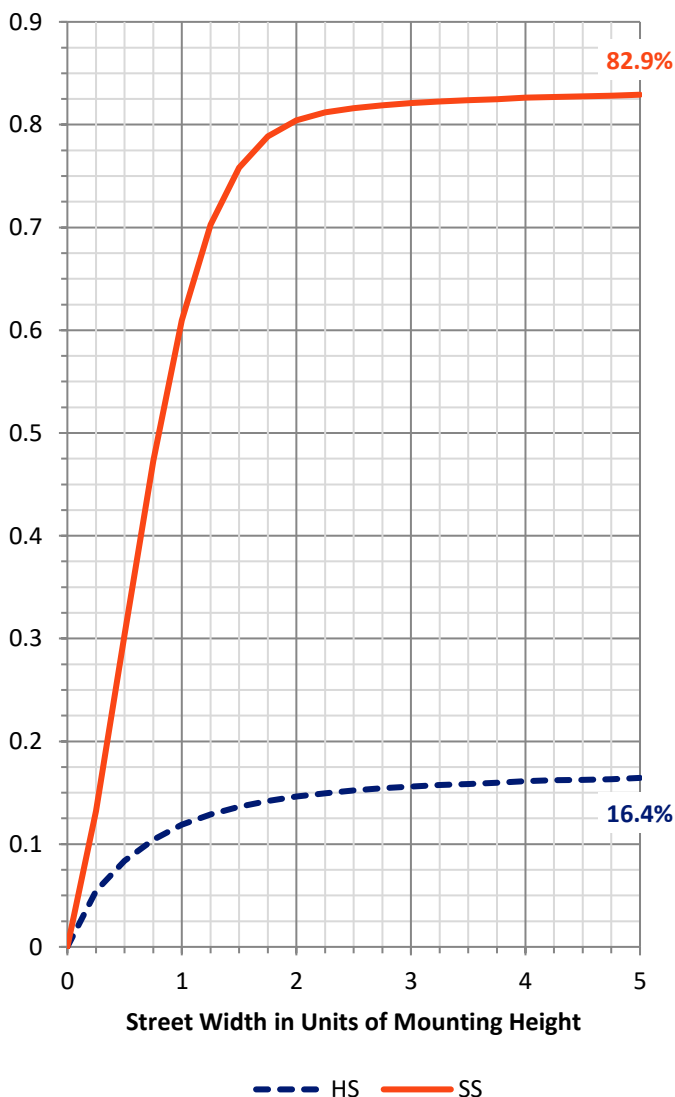
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1866.6	0.0	1866.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	9226.4	0.0	9226.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	11093.0	0.0	11093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	1.1
10°-20°	483.8	4.4
20°-30°	940.1	8.5
30°-40°	1534.4	13.8
40°-50°	2096.4	18.9
50°-60°	2441.8	22.0
60°-70°	2189.1	19.7
70°-80°	1106.3	10.0
80°-90°	178.7	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°	11093.0	100.0
0°-180°	11093.0	100.0

Coefficient of Utilization

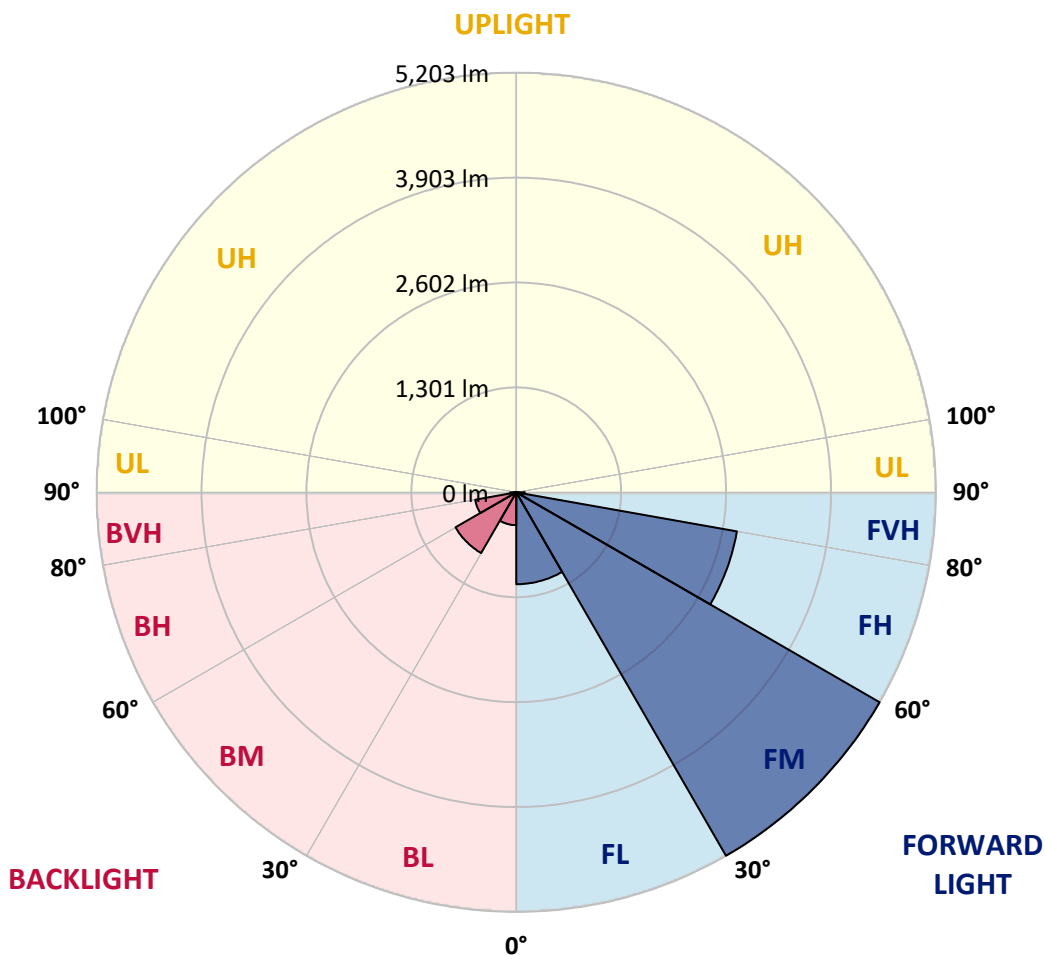


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1139.2	10.3			
FM (30°-60°)	5203.4	46.9			
FH (60°-80°)	2778.3	25.0			G2/5000
FVH (80°-90°)	105.5	1.0			G2/225
BL (0°-30°)	407.1	3.7	B1/500		
BM (30°-60°)	869.2	7.8	B1/1000		
BH (60°-80°)	517.1	4.7	B2/1000		G2/1000
BVH (80°-90°)	73.1	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°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1344.8	1324.5	1322.6	1292.9	1286.1	1229.2	1187.4	1143.7	1094.0	1084.2	1045.1
5°	1727.4	1725.6	1699.6	1651.0	1613.0	1515.8	1419.8	1318.1	1206.6	1188.5	1100.4
7.5°	2071.7	2068.6	2048.7	1996.3	1941.3	1822.0	1684.9	1529.0	1348.2	1321.5	1175.4
10°	2333.0	2331.9	2325.1	2286.7	2240.0	2125.5	1974.1	1761.3	1512.8	1476.3	1269.1
12.5°	2534.9	2537.1	2541.6	2528.1	2505.9	2408.3	2253.2	2007.6	1688.3	1652.1	1373.4
15°	2671.6	2678.3	2701.7	2720.9	2732.6	2672.7	2522.4	2259.6	1884.9	1841.6	1489.1
17.5°	2740.5	2748.0	2788.3	2846.3	2899.8	2893.8	2774.4	2499.8	2073.5	2031.7	1613.3
20°	2800.0	2805.6	2850.8	2920.5	3015.0	3056.8	2989.8	2731.1	2280.3	2230.6	1745.1
22.5°	2972.5	2979.6	2993.2	3032.7	3116.3	3193.2	3160.8	2949.9	2469.7	2423.4	1870.2
25°	3305.4	3314.0	3284.7	3251.1	3267.0	3320.4	3326.5	3149.5	2661.8	2609.4	2004.6
27.5°	3706.4	3718.9	3668.8	3582.6	3507.2	3486.5	3479.4	3312.9	2845.2	2784.5	2137.6
30°	4099.2	4120.7	4055.6	3943.7	3805.5	3708.3	3636.4	3473.0	3025.9	2967.9	2263.0
32.5°	4483.0	4474.3	4379.8	4270.6	4108.7	3987.0	3813.0	3644.7	3229.3	3162.6	2387.6
35°	4745.9	4748.9	4661.1	4531.6	4377.2	4283.8	4049.5	3830.0	3436.8	3375.4	2529.2
37.5°	4969.6	4955.6	4856.2	4735.3	4602.4	4562.5	4326.3	4034.1	3661.6	3594.6	2679.9
40°	5044.1	5027.9	4962.8	4875.8	4769.2	4765.8	4631.7	4265.3	3915.8	3849.6	2849.7
42.5°	4998.9	4978.2	4951.5	4927.7	4895.0	4910.0	4918.7	4536.5	4195.3	4121.1	3046.3
45°	4832.1	4800.8	4819.7	4871.3	4942.4	5027.5	5177.8	4836.6	4508.2	4446.1	3277.1
47.5°	4575.6	4547.4	4606.1	4716.5	4910.0	5125.5	5423.0	5168.0	4881.8	4820.0	3605.9
50°	4214.9	4223.1	4307.1	4507.8	4800.5	5170.7	5725.0	5606.7	5424.9	5367.2	4054.4
52.5°	3622.8	3624.4	3860.9	4190.4	4606.1	5147.3	5892.6	6167.5	6166.4	6096.7	4481.5
55°	3073.0	3106.5	3293.7	3731.7	4291.3	5053.9	6009.7	6440.2	6653.3	6571.6	4879.5
57.5°	2536.0	2555.6	2733.0	3172.8	3842.0	4805.0	6129.8	6767.4	7214.4	7162.8	5374.4
60°	1925.2	1955.3	2138.7	2545.0	3267.3	4363.2	6141.1	7109.0	7885.2	7833.2	5926.9
62.5°	1249.5	1301.5	1473.2	1854.0	2572.1	3727.9	5879.0	7332.3	8520.8	8502.4	6417.2
65°	718.2	757.3	876.7	1170.5	1774.5	2930.3	5255.8	7246.4	8912.1	8901.6	6600.6
66°	586.7	611.2	702.7	914.7	1464.2	2573.3	4893.5	7065.3	8950.9	8951.3	6579.5
67.5°	469.2	480.2	521.2	654.9	1080.5	2039.6	4246.1	6665.7	8902.7	8915.9	6443.5
70°	388.3	393.9	406.7	439.1	589.7	1230.0	3013.9	5627.5	8418.8	8429.0	5912.9
72.5°	348.4	351.7	356.6	361.2	416.1	687.3	1840.8	4501.8	7381.3	7394.4	5104.4
75°	315.6	317.5	316.7	317.1	349.1	438.0	951.3	3361.1	5968.3	5941.9	3910.2
77.5°	277.2	279.1	275.3	276.0	308.8	336.7	473.4	2353.0	4027.7	3841.6	2203.1
80°	234.2	235.7	234.2	236.9	268.9	254.2	275.3	1323.7	1780.9	1684.5	783.3
82.5°	177.0	183.4	187.9	198.5	221.4	180.8	184.2	515.6	542.3	516.3	240.3
85°	77.6	94.5	141.6	151.8	166.5	108.5	120.9	210.1	220.7	213.9	87.4
87.5°	20.3	22.2	70.0	88.1	92.3	49.0	62.9	95.7	100.9	95.7	29.0
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°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1024.3	1005.9	972.7	943.4	921.2	906.1	891.0	883.5	879.0	874.5	875.2
5°	1057.1	1019.8	963.0	922.7	900.1	885.8	878.2	875.2	873.3	868.8	868.8
7.5°	1106.4	1053.7	975.4	934.0	916.3	905.3	900.8	899.3	897.0	891.8	892.5
10°	1168.6	1094.8	1001.4	961.1	944.9	932.8	926.4	924.2	920.0	914.0	914.7
12.5°	1241.6	1145.6	1035.6	993.5	973.9	957.7	947.1	940.7	933.6	925.7	926.0
15°	1321.5	1201.0	1072.5	1022.5	995.7	973.1	956.2	945.3	934.0	924.2	923.8
17.5°	1402.4	1254.4	1100.8	1038.3	1002.1	972.4	949.4	932.4	918.5	906.5	905.3
20°	1489.8	1302.6	1116.6	1036.8	990.1	954.7	924.2	903.1	887.6	875.6	873.7
22.5°	1578.7	1347.8	1119.2	1021.3	963.3	920.0	888.0	864.7	848.8	836.4	831.9
25°	1660.0	1382.9	1108.3	991.6	926.0	879.3	848.1	824.4	811.6	796.9	792.4
27.5°	1734.2	1407.3	1086.5	953.5	884.2	838.3	808.9	788.6	774.7	763.4	759.6
30°	1800.9	1420.5	1050.7	908.3	841.3	799.5	774.7	760.7	748.7	734.4	731.7
32.5°	1864.1	1420.5	1004.8	859.0	798.8	765.2	750.6	741.9	728.3	714.4	710.6
35°	1927.4	1411.9	950.5	807.4	759.6	740.8	740.0	729.8	709.1	690.3	685.4
37.5°	1994.1	1394.2	889.5	759.2	727.6	729.8	736.2	713.6	684.3	657.5	650.4
40°	2069.4	1369.7	826.2	717.4	700.8	724.9	726.1	690.3	633.1	608.6	602.2
42.5°	2157.9	1345.2	767.5	680.5	679.8	710.3	706.9	639.8	605.6	593.1	589.7
45°	2274.3	1331.3	711.8	645.5	663.2	686.5	674.1	612.0	597.7	590.5	587.5
47.5°	2457.7	1338.4	660.5	617.6	646.6	662.8	613.1	600.7	590.5	581.8	578.8
50°	2687.4	1334.3	619.1	598.4	627.8	638.0	585.6	586.0	580.7	570.9	566.4
52.5°	2860.2	1301.9	592.4	587.5	611.2	593.9	568.3	571.7	569.0	554.7	549.8
55°	3027.1	1274.0	578.8	583.3	599.2	538.9	547.9	556.2	553.6	539.7	537.4
57.5°	3234.6	1268.7	570.5	584.5	589.0	511.4	528.4	539.3	537.4	531.4	530.2
60°	3488.8	1270.3	563.0	586.4	577.7	491.1	509.9	523.8	525.0	523.8	523.1
62.5°	3628.5	1229.2	544.2	581.1	557.7	473.4	490.7	511.0	511.4	513.7	513.3
65°	3509.9	1106.4	509.2	562.6	524.2	458.7	474.1	496.4	490.7	500.9	500.9
66°	3394.6	1035.6	491.8	550.6	509.9	453.0	468.9	488.8	481.7	495.6	495.6
67.5°	3159.3	916.3	460.6	525.0	489.6	445.1	462.8	476.4	466.6	487.3	485.8
70°	2729.2	708.8	397.7	467.0	456.1	433.5	454.6	451.5	437.2	468.9	462.8
72.5°	2301.0	538.5	319.4	390.9	405.2	418.8	442.9	419.9	401.8	424.0	410.9
75°	1785.4	404.8	252.3	303.9	342.3	395.8	428.9	383.4	357.4	355.1	348.0
77.5°	965.2	277.9	200.0	232.0	271.9	367.2	419.5	344.2	305.0	296.0	290.4
80°	382.2	180.8	145.4	175.9	190.2	325.8	396.9	298.6	251.6	242.5	233.9
82.5°	157.8	107.0	93.8	117.9	123.9	278.7	356.3	244.8	194.3	268.9	285.5
85°	67.8	58.7	55.7	61.0	70.0	195.5	283.6	186.8	209.8	187.2	148.8
87.5°	20.3	24.9	23.7	23.3	25.6	46.7	151.0	103.9	154.0	58.4	43.7
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)