

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: P318677

Luminaire Tested: **GAN-SA3B-730-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15983 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

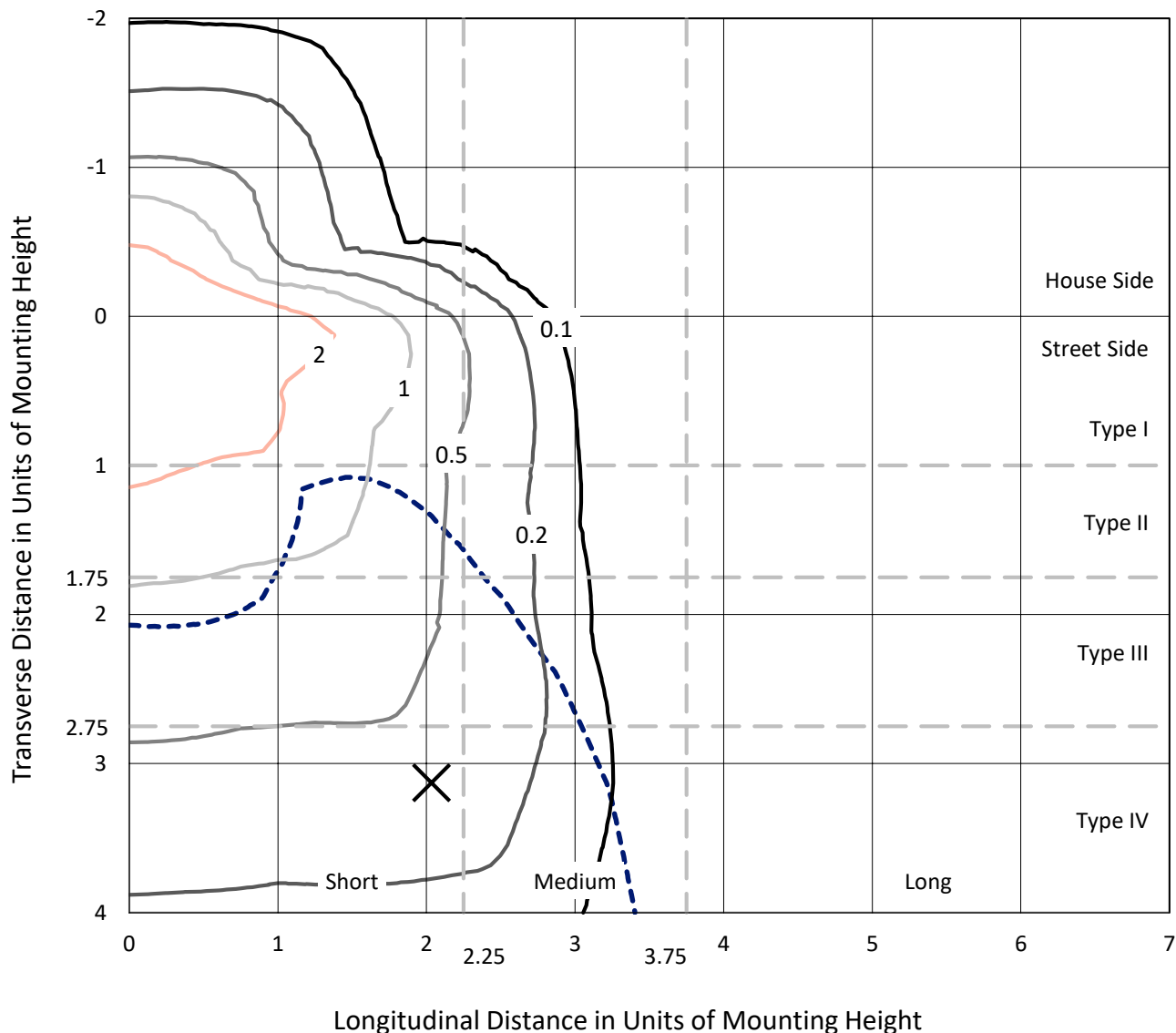
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

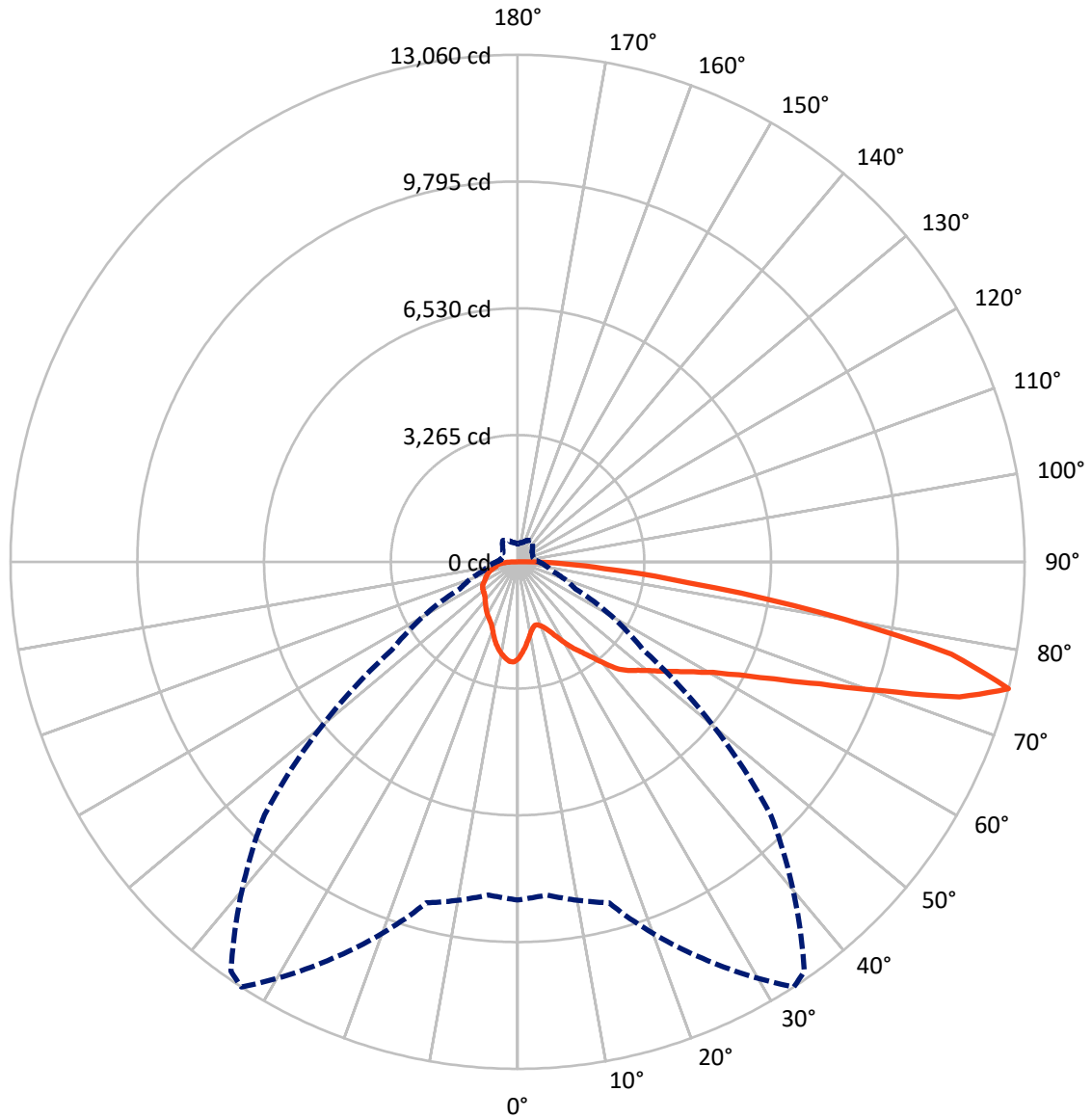
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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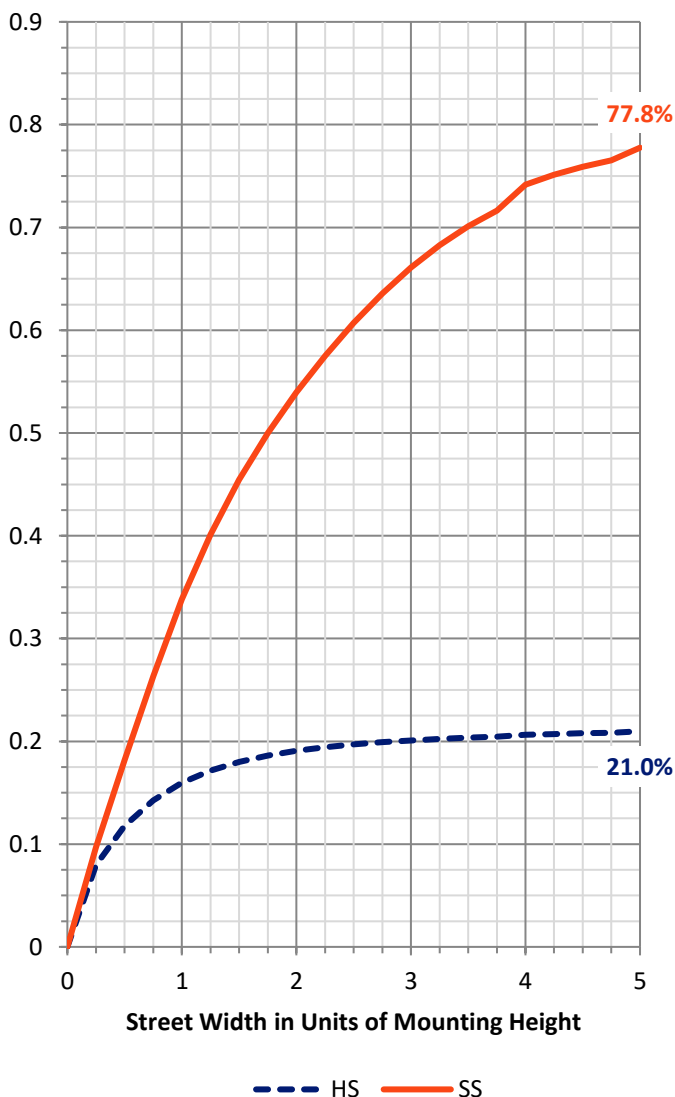
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3432.0	0.0	3432.0
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	12551.0	0.0	12551.0
	% Fixture	78.5	0.0	78.5
Total	Lumens	15983.0	0.0	15983.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.9	1.4
10°-20°	611.9	3.8
20°-30°	999.4	6.3
30°-40°	1488.3	9.3
40°-50°	2134.6	13.4
50°-60°	2930.5	18.3
60°-70°	3668.8	23.0
70°-80°	3319.0	20.8
80°-90°	604.6	3.8
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°	15983.0	100.0
0°-180°	15983.0	100.0

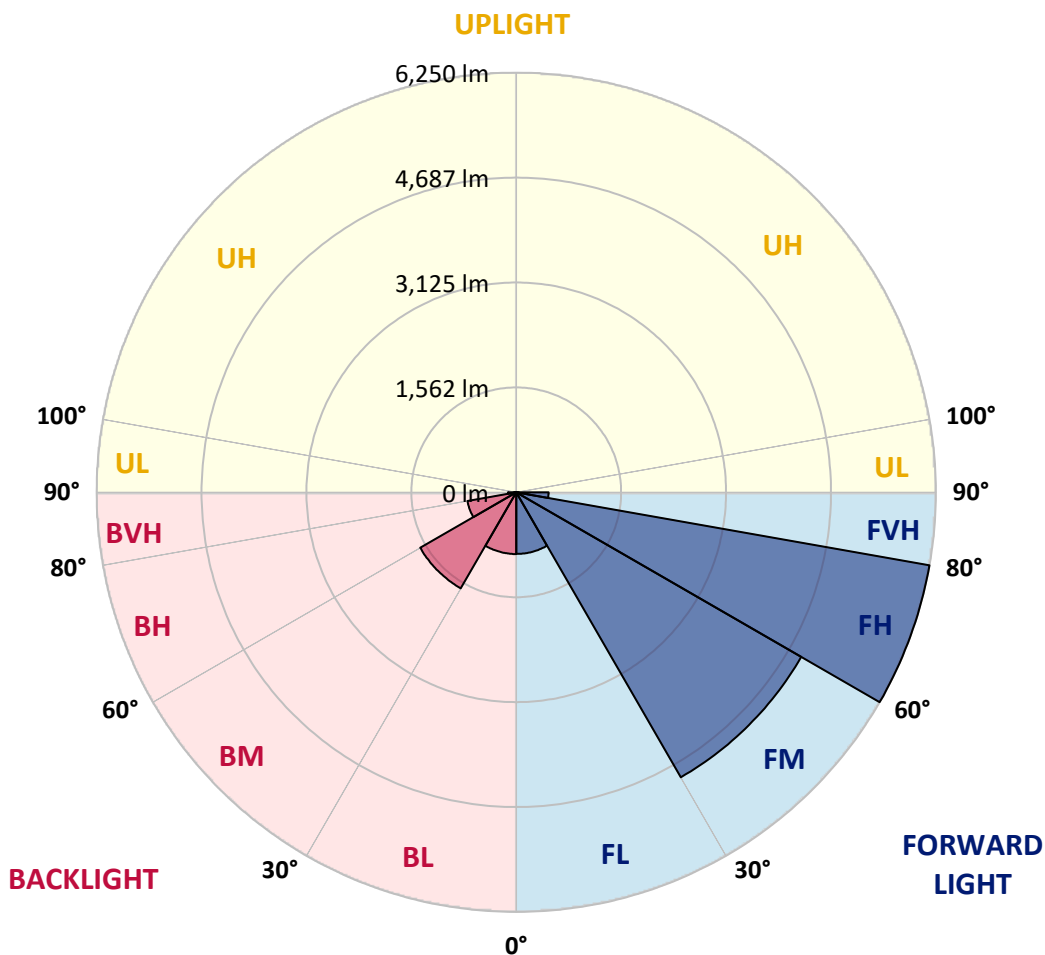


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	918.0	5.7			
FM (30°-60°)	4901.6	30.7			
FH (60°-80°)	6249.9	39.1			G3/7500
FVH (80°-90°)	481.5	3.0			G3/500
BL (0°-30°)	919.2	5.8	B2/1000		
BM (30°-60°)	1651.7	10.3	B2/2500		
BH (60°-80°)	737.9	4.6	B2/1000		G2/1000
BVH (80°-90°)	123.1	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2
2.5°	2319.9	2311.1	2327.6	2329.8	2344.2	2349.7	2369.6	2400.5	2425.9	2455.2	2481.7
5°	2109.6	2103.5	2126.7	2143.2	2174.7	2188.0	2234.9	2300.6	2359.1	2425.4	2485.5
7.5°	1909.7	1906.4	1932.3	1969.9	2006.3	2024.5	2105.7	2201.2	2298.9	2406.0	2498.2
10°	1741.3	1740.2	1765.0	1802.0	1855.6	1876.0	1980.9	2106.8	2243.7	2391.1	2519.8
12.5°	1646.9	1650.8	1662.4	1693.3	1743.0	1763.4	1879.9	2027.8	2197.3	2386.2	2551.2
15°	1670.1	1676.2	1656.3	1655.2	1690.5	1706.5	1815.8	1971.5	2164.2	2394.4	2597.1
17.5°	1768.9	1770.0	1717.6	1684.4	1706.0	1714.3	1796.0	1939.5	2144.9	2413.2	2654.5
20°	1908.0	1905.3	1812.5	1757.3	1768.9	1771.1	1824.1	1940.1	2143.2	2445.8	2729.0
22.5°	2092.4	2072.0	1947.2	1872.2	1869.4	1866.1	1896.4	1980.9	2167.5	2498.8	2817.9
25°	2333.2	2313.8	2142.1	2039.4	2017.4	2009.1	2013.5	2068.2	2215.6	2555.7	2917.3
27.5°	2600.9	2567.2	2401.6	2256.4	2210.6	2199.0	2172.5	2191.3	2268.0	2610.3	3035.4
30°	2825.1	2806.9	2662.2	2490.0	2435.8	2419.3	2349.7	2329.3	2343.6	2684.8	3184.5
32.5°	2950.4	2938.3	2850.5	2711.3	2661.1	2637.9	2539.6	2498.8	2465.1	2802.4	3386.6
35°	3102.2	3094.5	3041.5	2940.5	2865.9	2841.6	2765.4	2722.9	2636.3	2964.2	3647.7
37.5°	3295.5	3287.2	3288.3	3206.6	3117.7	3095.0	3044.8	3000.1	2858.2	3176.8	3931.5
40°	3514.1	3498.1	3492.0	3488.1	3431.8	3419.1	3392.6	3331.9	3136.5	3430.7	4211.4
42.5°	3843.1	3786.3	3664.8	3710.6	3766.4	3759.8	3781.3	3694.1	3445.6	3731.1	4484.7
45°	4160.6	4067.3	3857.5	3867.4	3989.4	4026.4	4187.6	4125.8	3780.8	4060.1	4767.3
47.5°	4305.2	4234.6	4056.2	4056.8	4177.7	4254.4	4607.8	4563.6	4133.0	4433.9	5112.4
50°	4467.0	4396.3	4236.2	4296.4	4401.9	4483.6	5013.6	4990.9	4468.1	4843.0	5525.9
52.5°	4643.7	4523.9	4422.3	4529.9	4677.9	4772.9	5419.9	5358.1	4775.6	5254.8	6001.3
55°	4645.9	4613.3	4690.6	4769.6	4990.9	5107.4	5845.6	5682.2	5026.3	5659.5	6388.3
57.5°	4910.3	4857.3	5021.3	5057.7	5347.0	5478.4	6269.0	5964.3	5281.3	5969.8	6597.0
60°	5260.4	5215.1	5349.3	5445.3	5787.6	5963.2	6721.2	6254.1	5481.8	6203.9	6587.1
62.5°	5864.9	5813.6	5811.9	5946.6	6407.6	6611.9	7228.6	6538.5	5561.3	6250.3	6306.0
65°	6749.9	6668.2	6514.2	6578.2	7263.9	7467.6	7795.6	6744.4	5456.4	6001.8	5582.2
67.5°	7611.2	7608.4	7419.1	7550.5	8394.6	8558.0	8441.5	6764.8	5129.0	5136.7	4298.1
70°	8469.7	8480.7	8448.7	8905.9	9922.3	10092.3	9129.5	6490.4	4393.0	3709.5	2575.0
72.5°	9149.9	9147.1	9308.3	10487.1	11904.8	11866.7	9709.2	5659.0	3154.1	2002.5	1230.6
75°	8709.3	8613.2	9093.6	11269.9	13060.4	12874.3	9216.1	3947.5	1637.0	911.5	662.5
77.5°	5680.5	5771.6	6476.6	9310.0	11424.0	11197.6	6761.5	1841.8	771.3	597.9	480.3
80°	2057.1	2153.2	3032.7	5273.6	7870.7	7833.7	3329.7	756.9	521.7	451.6	350.0
82.5°	707.8	743.1	1196.4	2342.0	4443.8	4609.4	1252.7	430.1	379.3	320.2	239.6
85°	277.7	318.0	547.1	1126.8	2241.5	2258.1	507.4	257.3	263.9	209.8	131.4
87.5°	105.5	128.1	261.7	523.4	1023.6	940.2	181.6	122.6	150.2	124.8	62.4
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°	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2
2.5°	2502.1	2513.7	2538.0	2554.5	2572.2	2577.2	2579.4	2583.8	2588.2	2586.6	2587.1
5°	2517.6	2540.2	2579.4	2596.0	2603.7	2594.8	2577.7	2563.9	2554.0	2548.5	2546.8
7.5°	2543.0	2575.0	2616.9	2614.2	2596.5	2557.3	2513.1	2480.0	2452.4	2442.5	2436.9
10°	2576.6	2614.2	2643.4	2612.0	2560.6	2492.7	2426.5	2375.1	2333.7	2317.7	2314.9
12.5°	2619.7	2657.8	2663.3	2596.5	2511.5	2418.7	2328.7	2260.8	2199.0	2179.1	2174.7
15°	2675.5	2711.3	2677.1	2569.5	2450.8	2326.0	2209.5	2117.3	2052.1	2027.8	2019.0
17.5°	2734.0	2768.2	2679.9	2524.7	2371.3	2216.1	2069.8	1975.4	1900.9	1872.7	1869.4
20°	2804.1	2819.6	2668.3	2460.7	2261.9	2073.7	1919.6	1830.7	1791.0	1771.1	1768.9
22.5°	2890.8	2874.2	2641.8	2374.0	2123.4	1909.1	1783.8	1742.4	1732.5	1728.1	1729.7
25°	2982.4	2931.6	2602.6	2260.8	1948.3	1744.6	1684.4	1696.0	1709.3	1707.6	1707.6
27.5°	3083.5	2990.1	2542.4	2110.7	1754.6	1609.9	1617.1	1659.6	1679.5	1678.9	1678.4
30°	3213.2	3056.4	2465.7	1930.1	1573.5	1515.0	1558.6	1610.5	1637.5	1636.4	1637.0
32.5°	3372.8	3129.3	2361.3	1728.6	1442.6	1444.8	1495.1	1546.4	1577.9	1575.1	1575.7
35°	3559.4	3211.0	2220.0	1529.9	1355.9	1389.1	1428.8	1464.7	1494.5	1490.7	1486.8
37.5°	3762.5	3291.0	2032.3	1352.1	1285.3	1337.2	1370.3	1376.4	1390.2	1380.2	1373.1
40°	3955.8	3352.3	1790.4	1206.3	1214.1	1293.0	1314.5	1290.2	1265.4	1262.1	1252.2
42.5°	4124.2	3372.8	1545.9	1089.8	1139.0	1246.6	1259.9	1209.1	1164.4	1143.4	1134.6
45°	4301.9	3379.9	1317.9	992.1	1066.6	1205.2	1219.6	1151.7	1088.7	1043.5	1028.6
47.5°	4534.4	3431.8	1140.6	919.8	1011.4	1177.6	1198.0	1105.8	1024.1	959.5	945.7
50°	4838.6	3534.5	996.5	864.6	975.6	1159.4	1182.6	1061.1	971.1	893.3	879.5
52.5°	5176.4	3628.9	880.0	819.9	940.8	1127.4	1162.7	1029.1	921.4	832.0	817.1
55°	5412.7	3556.6	786.2	773.5	895.5	1081.6	1135.1	1002.1	850.2	772.4	759.1
57.5°	5458.0	3309.3	715.0	725.5	840.8	1024.1	1092.6	941.9	811.6	746.4	732.6
60°	5334.3	2964.8	662.0	681.3	782.3	951.8	1013.1	899.4	774.6	718.8	707.2
62.5°	5023.5	2612.0	622.8	641.5	727.7	878.4	963.4	854.6	737.0	687.4	675.8
65°	4395.8	2192.9	585.2	606.2	676.9	814.9	918.7	813.2	700.1	662.0	650.9
67.5°	3318.1	1642.5	549.9	568.7	631.6	759.7	870.1	772.4	664.2	639.9	626.6
70°	1953.9	1028.6	509.6	529.5	584.1	702.3	818.2	727.7	619.5	608.4	591.3
72.5°	909.3	618.9	463.8	483.1	524.5	625.5	751.4	669.1	566.5	542.2	519.0
75°	542.7	452.7	409.7	426.8	456.0	543.8	667.5	609.5	516.2	484.2	459.9
77.5°	405.8	346.2	350.0	368.2	392.0	475.9	591.3	562.6	477.6	452.7	436.2
80°	292.1	262.8	285.4	305.3	330.2	432.8	566.5	520.1	431.7	398.6	383.2
82.5°	194.9	188.8	214.8	235.2	259.5	378.7	532.2	455.5	368.8	326.8	292.6
85°	107.7	113.7	144.6	153.5	174.5	266.7	436.2	366.0	277.7	223.6	213.7
87.5°	44.7	52.4	77.8	75.1	92.8	159.0	287.1	220.8	176.7	132.0	102.7
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)