

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: P318697

Luminaire Tested: **GAN-SA3D-730-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318697  
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-SA3D-730-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1200mA 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: 21703 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

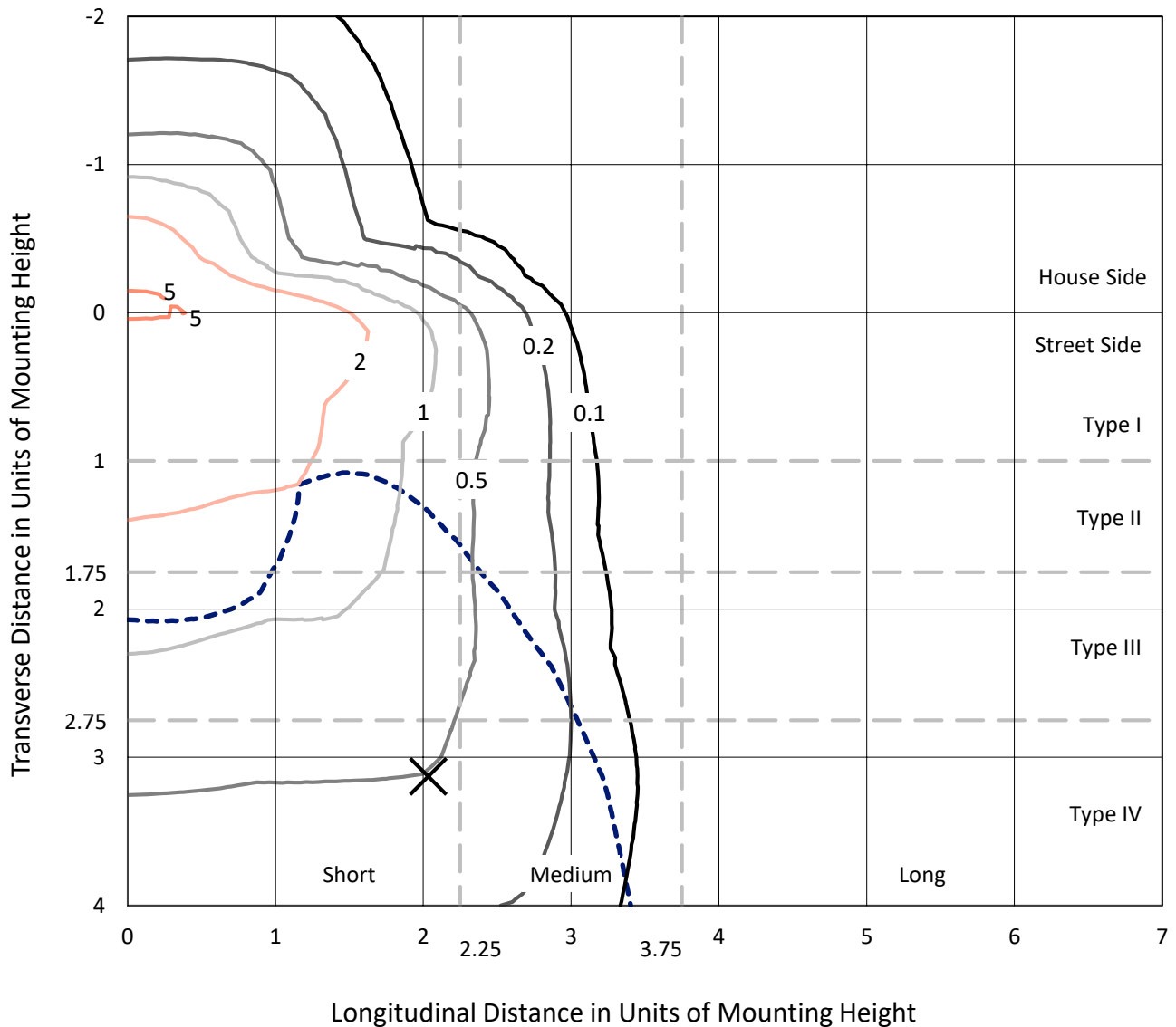
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

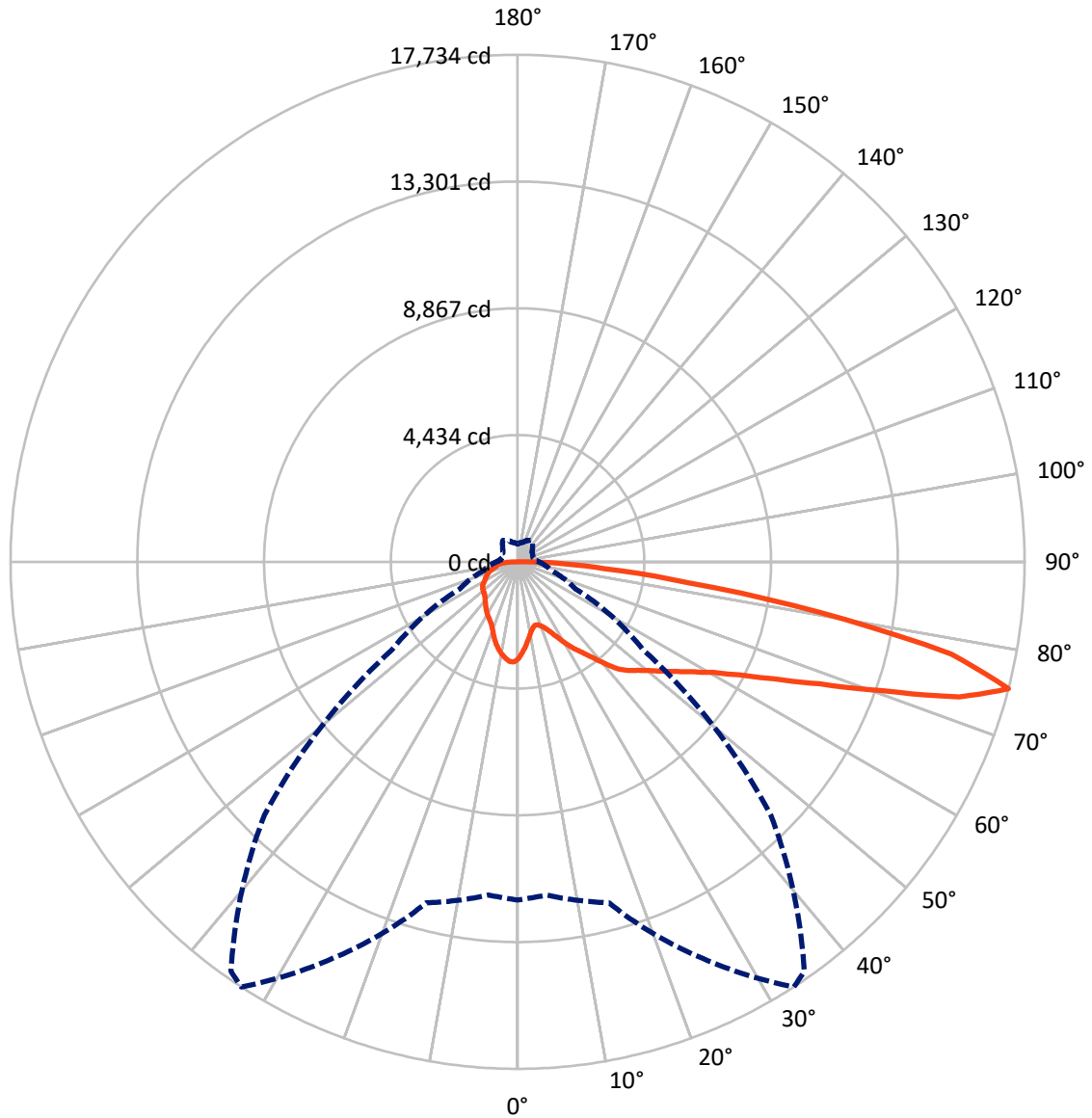
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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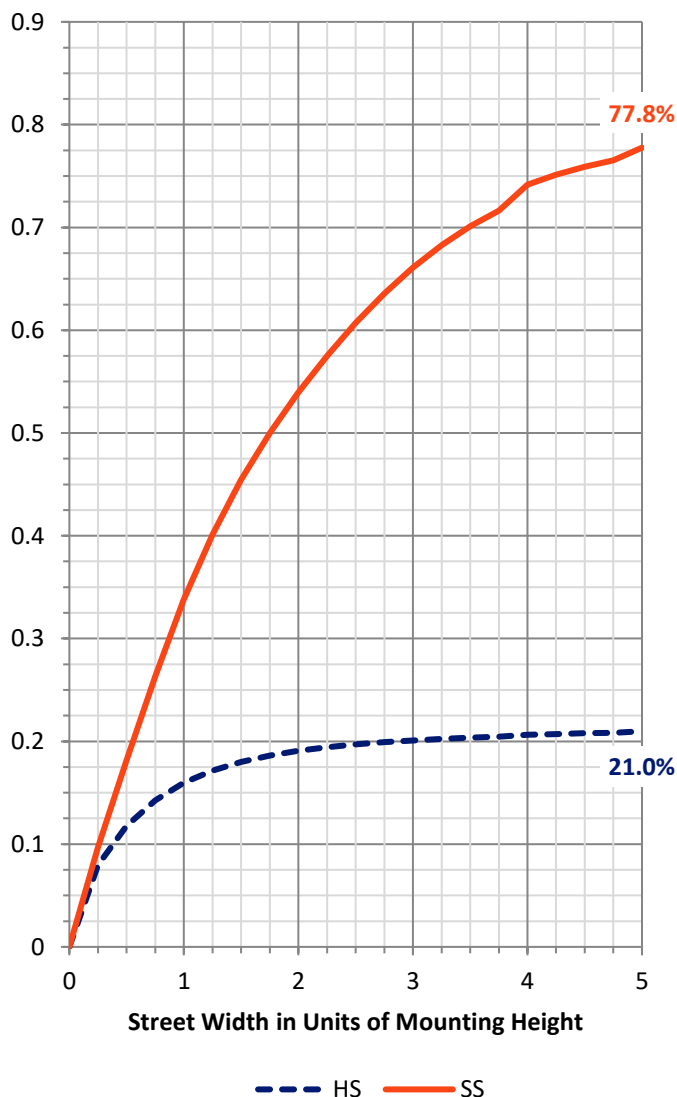
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4660.2	0.0	4660.2
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	17042.8	0.0	17042.8
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	21703.0	0.0	21703.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.8	1.4
10°-20°	830.9	3.8
20°-30°	1357.0	6.3
30°-40°	2020.9	9.3
40°-50°	2898.5	13.4
50°-60°	3979.2	18.3
60°-70°	4981.8	23.0
70°-80°	4506.8	20.8
80°-90°	820.9	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°	21703.0	100.0
0°-180°	21703.0	100.0

**Coefficient of Utilization**

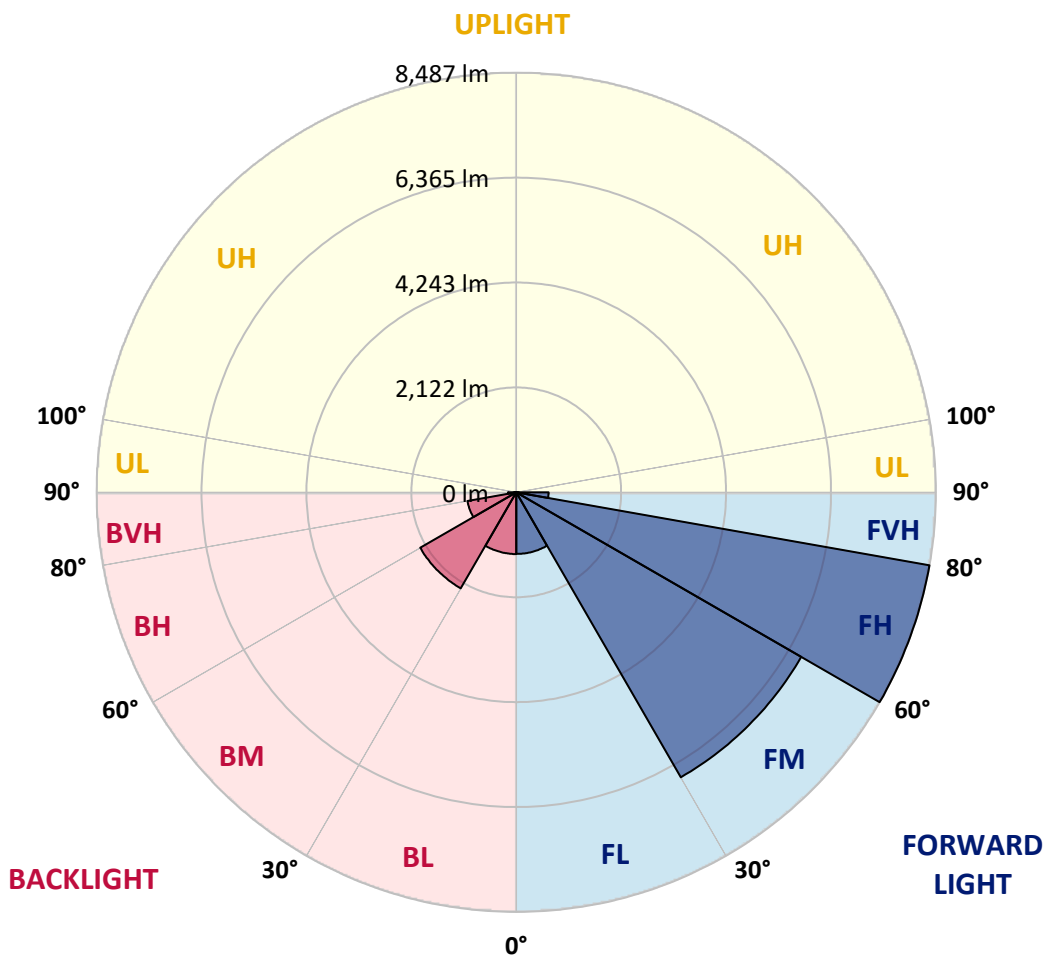


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1246.5	5.7			
FM (30°-60°)	6655.9	30.7			
FH (60°-80°)	8486.6	39.1			G4/12000
FVH (80°-90°)	653.8	3.0			G4/750
BL (0°-30°)	1248.2	5.8	B3/2500		
BM (30°-60°)	2242.8	10.3	B2/2500		
BH (60°-80°)	1002.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	167.1	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	3392.3	3392.3	3392.3	3392.3	3392.3	3392.3	3392.3	3392.3	3392.3	3392.3	3392.3
2.5°	3150.2	3138.2	3160.6	3163.6	3183.1	3190.6	3217.6	3259.6	3294.1	3333.8	3369.8
5°	2864.5	2856.3	2887.8	2910.3	2953.0	2971.0	3034.7	3123.9	3203.4	3293.3	3375.1
7.5°	2593.1	2588.6	2623.9	2674.9	2724.3	2749.1	2859.3	2989.0	3121.7	3267.1	3392.3
10°	2364.5	2363.0	2396.7	2447.0	2519.7	2547.4	2689.9	2860.8	3046.7	3246.9	3421.5
12.5°	2236.3	2241.5	2257.3	2299.3	2366.7	2394.5	2552.7	2753.6	2983.7	3240.1	3464.3
15°	2267.8	2276.0	2249.0	2247.5	2295.5	2317.3	2465.7	2677.1	2938.7	3251.4	3526.5
17.5°	2402.0	2403.5	2332.3	2287.3	2316.5	2327.8	2438.7	2633.6	2912.5	3276.8	3604.5
20°	2590.9	2587.1	2461.2	2386.2	2402.0	2405.0	2476.9	2634.4	2910.3	3321.1	3705.7
22.5°	2841.3	2813.5	2644.1	2542.2	2538.4	2533.9	2575.1	2689.9	2943.2	3393.1	3826.4
25°	3168.1	3141.9	2908.8	2769.3	2739.3	2728.1	2734.1	2808.3	3008.5	3470.3	3961.3
27.5°	3531.7	3486.0	3261.1	3063.9	3001.7	2986.0	2950.0	2975.5	3079.7	3544.5	4121.7
30°	3836.1	3811.4	3615.0	3381.1	3307.6	3285.1	3190.6	3162.9	3182.4	3645.7	4324.2
32.5°	4006.3	3989.8	3870.6	3681.7	3613.5	3582.0	3448.5	3393.1	3347.3	3805.4	4598.5
35°	4212.5	4202.0	4130.0	3992.8	3891.6	3858.6	3755.1	3697.4	3579.7	4025.0	4953.1
37.5°	4474.8	4463.6	4465.1	4354.1	4233.4	4202.7	4134.5	4073.8	3881.1	4313.7	5338.5
40°	4771.7	4750.0	4741.7	4736.5	4660.0	4642.8	4606.8	4524.3	4258.9	4658.5	5718.6
42.5°	5218.5	5141.3	4976.4	5038.6	5114.3	5105.3	5134.6	5016.1	4678.8	5066.3	6089.6
45°	5649.6	5522.9	5238.0	5251.5	5417.2	5467.4	5686.3	5602.4	5133.8	5513.1	6473.5
47.5°	5846.0	5750.0	5507.9	5508.6	5672.8	5777.0	6256.8	6196.9	5612.1	6020.7	6942.0
50°	6065.7	5969.7	5752.3	5834.0	5977.2	6088.1	6807.8	6777.1	6067.2	6576.2	7503.5
52.5°	6305.6	6142.9	6004.9	6151.1	6352.0	6481.0	7359.6	7275.6	6484.7	7135.5	8149.0
55°	6308.6	6264.3	6369.3	6476.5	6777.1	6935.3	7937.6	7715.7	6825.1	7685.0	8674.5
57.5°	6667.7	6595.7	6818.3	6867.8	7260.6	7439.1	8512.6	8098.8	7171.4	8106.3	8957.9
60°	7142.9	7081.5	7263.6	7394.1	7858.9	8097.3	9126.6	8492.4	7443.6	8424.2	8944.4
62.5°	7963.8	7894.1	7891.9	8074.8	8700.8	8978.2	9815.6	8878.5	7551.5	8487.1	8562.8
65°	9165.6	9054.6	8845.5	8932.4	9863.5	10140.2	10585.5	9158.1	7409.1	8149.8	7580.0
67.5°	10335.1	10331.3	10074.2	10252.6	11398.9	11620.8	11462.6	9185.8	6964.5	6975.0	5836.3
70°	11500.8	11515.8	11472.3	12093.1	13473.2	13704.1	12396.7	8813.2	5965.2	5037.1	3496.5
72.5°	12424.4	12420.7	12639.6	14240.2	16165.3	16113.6	13183.9	7684.2	4282.9	2719.1	1671.0
75°	11826.2	11695.8	12348.0	15303.2	17734.4	17481.8	12514.4	5360.2	2222.8	1237.7	899.6
77.5°	7713.5	7837.2	8794.5	12641.8	15512.4	15205.0	9181.3	2500.9	1047.3	811.9	652.2
80°	2793.3	2923.8	4118.0	7160.9	10687.4	10637.2	4521.3	1027.8	708.4	613.2	475.3
82.5°	961.1	1009.1	1624.6	3180.1	6034.2	6259.1	1701.0	584.0	515.0	434.8	325.4
85°	377.1	431.8	742.9	1530.1	3043.7	3066.2	689.0	349.4	358.3	284.9	178.4
87.5°	143.2	173.9	355.3	710.7	1389.9	1276.7	246.6	166.4	203.9	169.4	84.7
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°	3392.3	3392.3	3392.3	3392.3	3392.3	3392.3	3392.3	3392.3	3392.3	3392.3	3392.3
2.5°	3397.5	3413.3	3446.3	3468.8	3492.8	3499.5	3502.5	3508.5	3514.5	3512.2	3513.0
5°	3418.5	3449.3	3502.5	3525.0	3535.5	3523.5	3500.3	3481.5	3468.0	3460.5	3458.3
7.5°	3453.0	3496.5	3553.5	3549.7	3525.7	3472.5	3412.5	3367.6	3330.1	3316.6	3309.1
10°	3498.8	3549.7	3589.5	3546.7	3477.0	3384.8	3294.8	3225.1	3168.9	3147.2	3143.4
12.5°	3557.2	3609.0	3616.5	3525.7	3410.3	3284.3	3162.1	3069.9	2986.0	2959.0	2953.0
15°	3632.9	3681.7	3635.2	3489.0	3327.8	3158.4	3000.2	2875.0	2786.6	2753.6	2741.6
17.5°	3712.4	3758.9	3638.9	3428.3	3219.9	3009.2	2810.5	2682.4	2581.1	2542.9	2538.4
20°	3807.6	3828.6	3623.2	3341.3	3071.4	2815.8	2606.6	2485.9	2432.0	2405.0	2402.0
22.5°	3925.3	3902.8	3587.2	3223.6	2883.3	2592.4	2422.2	2366.0	2352.5	2346.5	2348.7
25°	4049.8	3980.8	3534.0	3069.9	2645.6	2369.0	2287.3	2303.0	2321.0	2318.8	2318.8
27.5°	4187.0	4060.3	3452.3	2866.0	2382.5	2186.1	2195.8	2253.5	2280.5	2279.8	2279.0
30°	4363.1	4150.2	3348.1	2620.9	2136.6	2057.1	2116.3	2186.8	2223.5	2222.1	2222.8
32.5°	4579.8	4249.2	3206.4	2347.2	1958.9	1961.9	2030.1	2099.9	2142.6	2138.8	2139.6
35°	4833.2	4360.1	3014.5	2077.4	1841.2	1886.2	1940.2	1988.9	2029.4	2024.1	2018.9
37.5°	5109.1	4468.8	2759.6	1836.0	1745.3	1815.7	1860.7	1869.0	1887.7	1874.2	1864.5
40°	5371.5	4552.1	2431.2	1638.1	1648.5	1755.7	1785.0	1752.0	1718.3	1713.8	1700.3
42.5°	5600.1	4579.8	2099.1	1479.9	1546.6	1692.8	1710.8	1641.8	1581.1	1552.6	1540.6
45°	5841.5	4589.5	1789.5	1347.2	1448.4	1636.6	1656.0	1563.8	1478.4	1416.9	1396.7
47.5°	6157.1	4660.0	1548.8	1249.0	1373.4	1599.1	1626.8	1501.6	1390.7	1302.9	1284.2
50°	6570.2	4799.4	1353.2	1174.0	1324.7	1574.3	1605.8	1440.9	1318.7	1213.0	1194.2
52.5°	7029.0	4927.6	1195.0	1113.3	1277.5	1530.8	1578.8	1397.4	1251.2	1129.8	1109.5
55°	7349.9	4829.4	1067.5	1050.3	1216.0	1468.6	1541.3	1360.7	1154.5	1048.8	1030.8
57.5°	7411.3	4493.6	970.8	985.1	1141.8	1390.7	1483.6	1279.0	1102.0	1013.6	994.8
60°	7243.4	4025.8	898.9	925.1	1062.3	1292.4	1375.7	1221.2	1051.8	976.1	960.3
62.5°	6821.3	3546.7	845.6	871.1	988.1	1192.7	1308.2	1160.5	1000.8	933.4	917.6
65°	5968.9	2977.7	794.7	823.1	919.1	1106.5	1247.5	1104.3	950.6	898.9	883.9
67.5°	4505.6	2230.3	746.7	772.2	857.6	1031.6	1181.5	1048.8	901.9	868.9	850.9
70°	2653.1	1396.7	692.0	718.9	793.2	953.6	1111.0	988.1	841.1	826.1	802.9
72.5°	1234.7	840.4	629.7	656.0	712.2	849.4	1020.3	908.6	769.2	736.2	704.7
75°	736.9	614.7	556.3	579.5	619.2	738.4	906.4	827.6	701.0	657.5	624.5
77.5°	551.0	470.0	475.3	500.0	532.3	646.2	802.9	763.9	648.5	614.7	592.2
80°	396.6	356.8	387.6	414.6	448.3	587.7	769.2	706.2	586.2	541.3	520.3
82.5°	264.6	256.4	291.6	319.4	352.3	514.3	722.7	618.5	500.8	443.8	397.3
85°	146.2	154.4	196.4	208.4	236.9	362.1	592.2	497.0	377.1	303.6	290.1
87.5°	60.7	71.2	105.7	102.0	125.9	215.9	389.8	299.9	239.9	179.2	139.4
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)