

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: P317816

Luminaire Tested: **GAN-SA2D-750-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-750-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16232 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

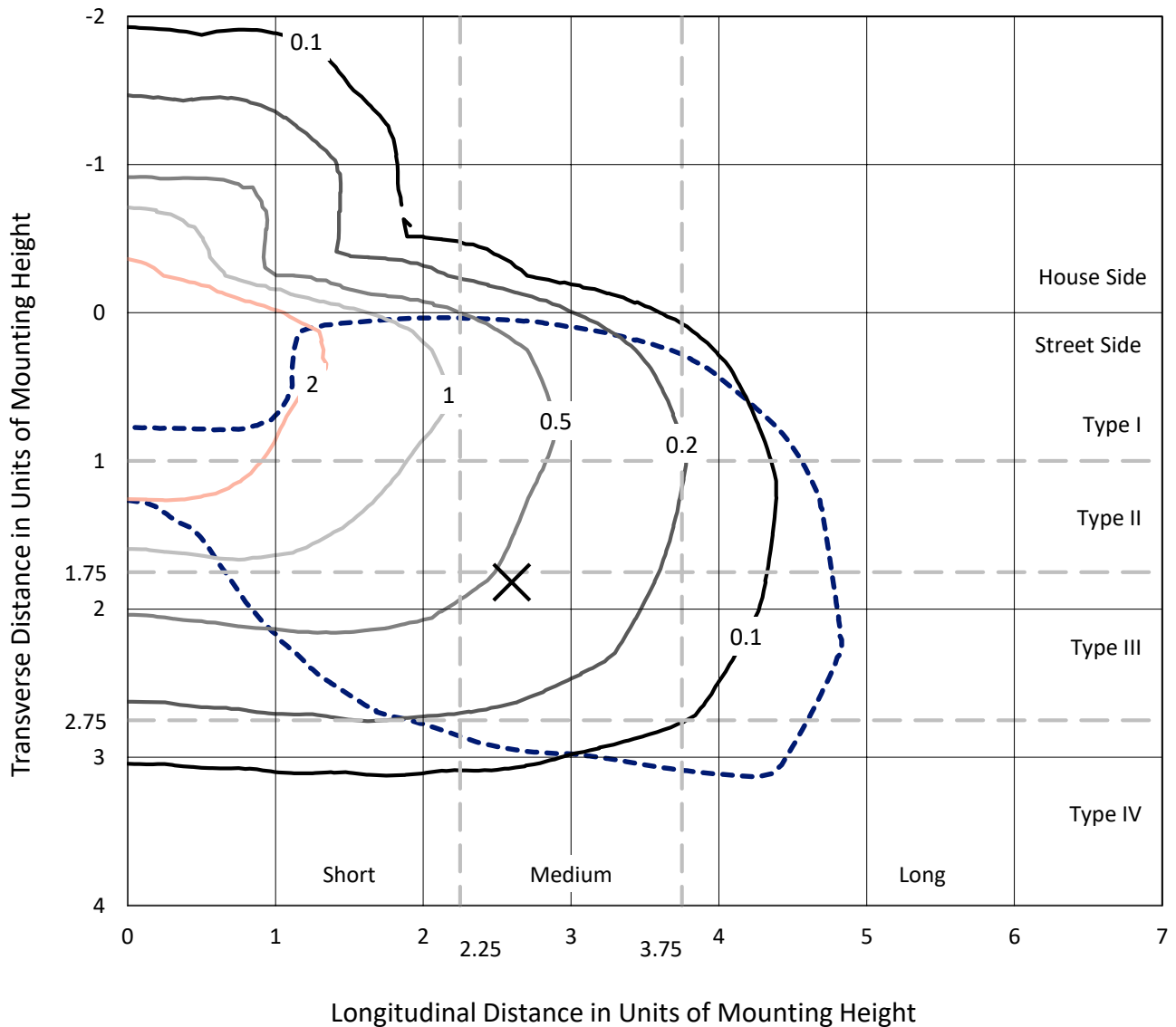
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

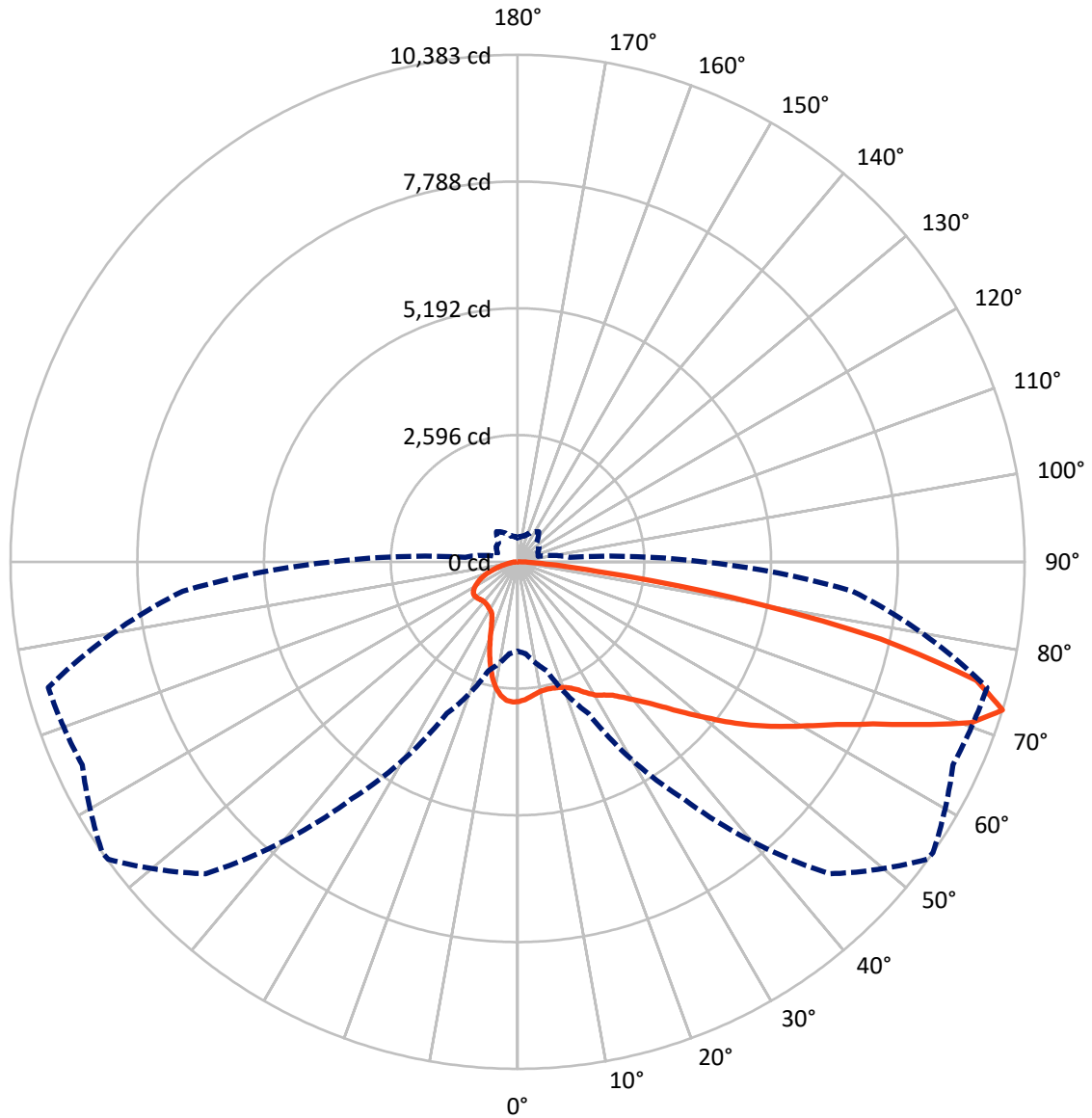
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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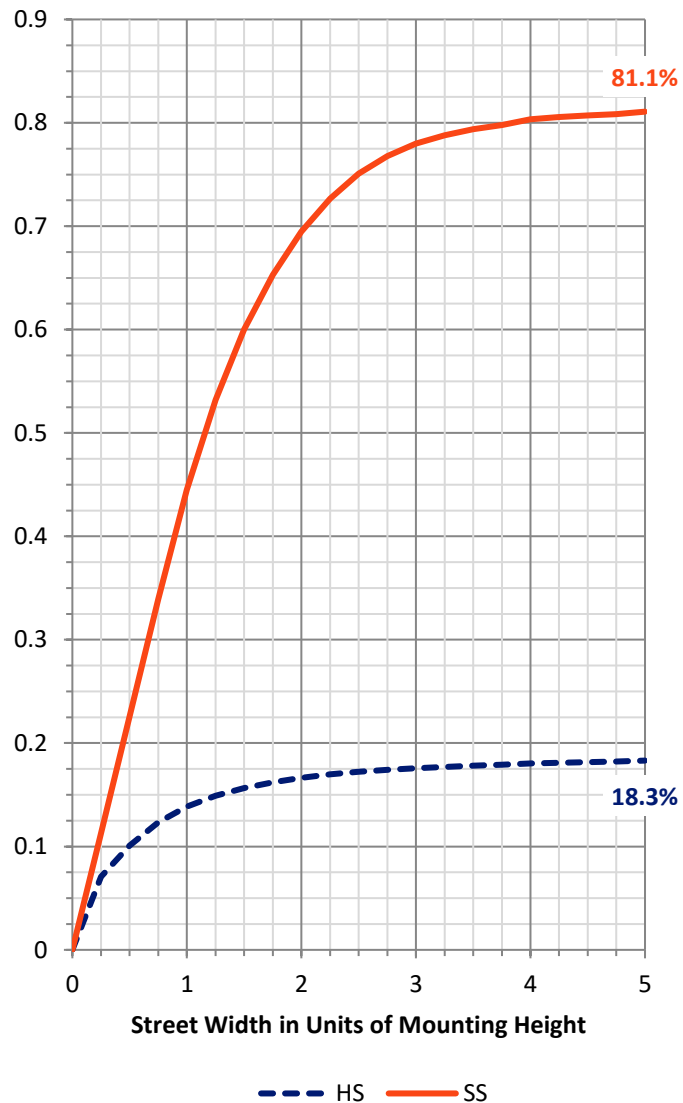
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3017.0	0.0	3017.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	13215.0	0.0	13215.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	16232.0	0.0	16232.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.1	1.6
10°-20°	689.7	4.2
20°-30°	1137.2	7.0
30°-40°	1682.2	10.4
40°-50°	2348.0	14.5
50°-60°	3057.1	18.8
60°-70°	3757.1	23.1
70°-80°	2945.1	18.1
80°-90°	356.4	2.2
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°	16232.0	100.0
0°-180°	16232.0	100.0

Coefficient of Utilization

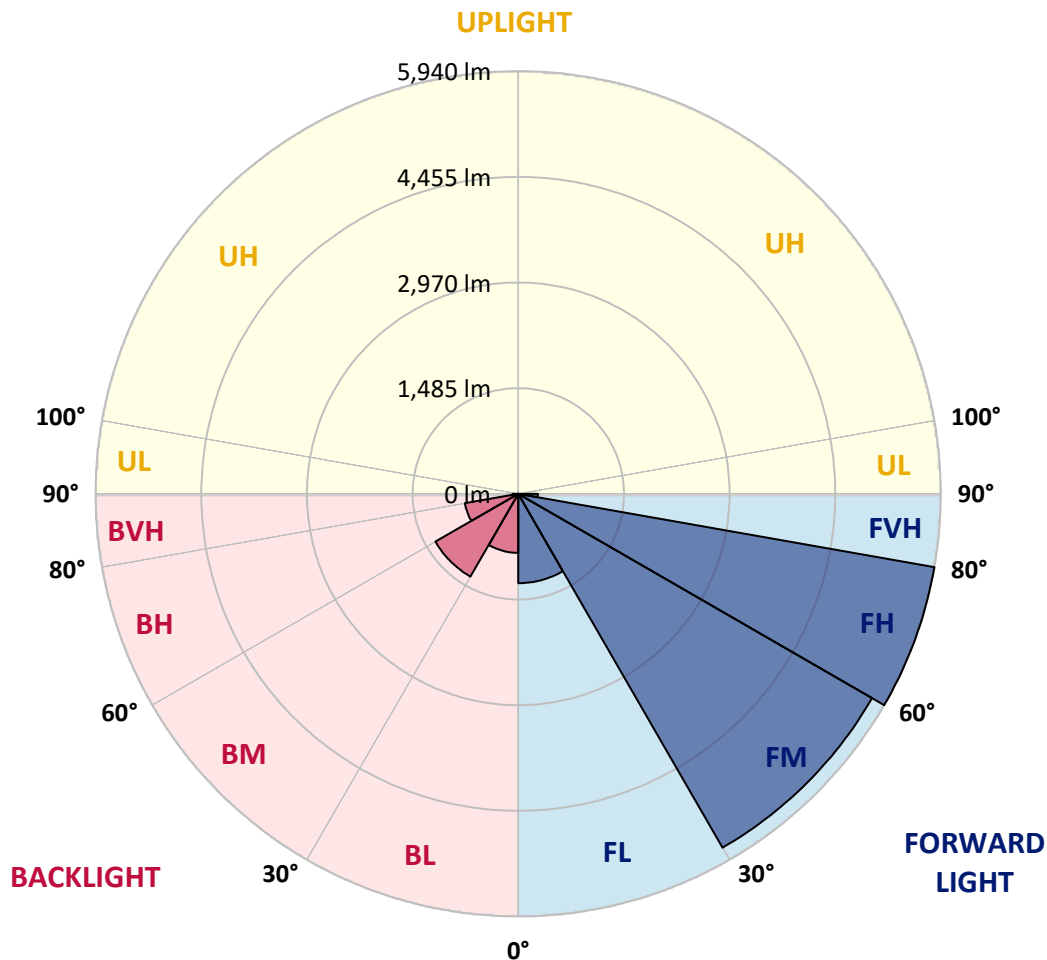


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1255.9	7.7			
FM (30°-60°)	5743.2	35.4			
FH (60°-80°)	5940.4	36.6			G3/7500
FVH (80°-90°)	275.6	1.7			G3/500
BL (0°-30°)	830.1	5.1	B2/1000		
BM (30°-60°)	1344.1	8.3	B2/2500		
BH (60°-80°)	761.9	4.7	B2/1000		G2/1000
BVH (80°-90°)	80.9	0.5			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2863.0	2863.0	2863.0	2863.0	2863.0	2863.0	2863.0	2863.0	2863.0	2863.0	2863.0
2.5°	2769.8	2763.2	2771.4	2782.9	2795.5	2812.5	2822.4	2826.8	2843.8	2850.4	2864.6
5°	2641.5	2638.2	2651.9	2671.6	2699.6	2739.1	2770.9	2776.9	2821.9	2853.7	2882.7
7.5°	2548.3	2548.3	2564.2	2587.8	2619.0	2672.2	2717.1	2725.4	2801.6	2870.1	2923.8
10°	2474.3	2477.0	2495.6	2523.6	2560.3	2616.8	2676.6	2685.9	2796.1	2908.5	2994.0
12.5°	2424.9	2431.5	2448.5	2473.7	2519.2	2587.8	2663.4	2676.0	2807.6	2963.3	3078.4
15°	2456.2	2467.1	2468.8	2479.2	2504.4	2579.0	2671.1	2684.2	2832.3	3019.2	3174.4
17.5°	2593.2	2597.1	2580.1	2558.1	2546.1	2593.8	2694.1	2707.8	2861.9	3074.6	3266.5
20°	2801.6	2799.4	2762.6	2703.4	2642.0	2649.7	2731.9	2746.2	2901.9	3123.4	3358.6
22.5°	3064.7	3057.1	3000.6	2891.5	2786.8	2742.9	2798.3	2810.3	2962.2	3193.0	3457.3
25°	3383.8	3366.8	3292.3	3145.9	2991.8	2878.9	2898.1	2909.6	3049.9	3270.9	3547.7
27.5°	3720.4	3703.4	3608.6	3431.5	3226.5	3050.5	3035.7	3045.5	3149.7	3328.4	3614.6
30°	4072.4	4054.3	3967.7	3769.2	3475.4	3228.1	3164.0	3167.8	3219.9	3359.7	3669.5
32.5°	4426.0	4409.0	4312.0	4081.7	3745.7	3418.9	3256.6	3251.7	3262.1	3392.0	3731.4
35°	4784.6	4791.2	4677.7	4422.8	4045.0	3631.1	3366.3	3355.9	3332.8	3458.4	3819.1
37.5°	5168.4	5164.0	5017.1	4750.6	4358.1	3861.3	3523.6	3522.0	3442.5	3583.9	3956.7
40°	5425.0	5427.7	5338.3	5086.1	4674.4	4116.3	3725.4	3721.5	3617.4	3772.0	4137.1
42.5°	5525.3	5543.4	5566.4	5406.3	5005.5	4411.8	3966.1	3960.6	3861.3	4041.7	4349.3
45°	5532.4	5568.6	5711.1	5690.9	5341.1	4750.1	4273.6	4258.3	4187.0	4400.3	4602.6
47.5°	5471.0	5508.3	5745.1	5860.3	5641.0	5107.0	4633.3	4621.2	4559.8	4848.7	4876.7
50°	5336.7	5372.3	5675.0	5943.1	5887.7	5450.2	5047.8	5016.0	4983.1	5366.8	5190.3
52.5°	5085.0	5153.6	5581.2	5962.8	6035.2	5755.0	5483.6	5462.8	5480.9	5913.5	5504.5
55°	4489.1	4565.8	5339.4	5946.3	6144.3	6011.0	5919.5	5918.4	6012.1	6486.9	5841.6
57.5°	4155.2	4209.5	4847.1	5918.4	6273.7	6265.4	6351.0	6361.4	6543.9	7111.4	6194.7
60°	3966.6	4023.6	4597.6	5814.8	6474.3	6594.4	6791.2	6812.0	7084.5	7802.7	6619.6
62.5°	3795.0	3857.5	4443.0	5603.7	6710.6	7064.8	7318.6	7337.3	7656.9	8513.3	7030.2
65°	3501.7	3572.4	4216.6	5465.0	6925.5	7678.3	7989.1	8001.7	8314.3	9257.8	7344.4
67.5°	3087.2	3151.9	3789.5	5158.5	7084.5	8423.4	8880.6	8887.7	8966.1	9783.6	7505.0
70°	2603.1	2627.8	3181.0	4525.8	6896.5	9120.2	9857.6	9859.2	9560.4	10120.2	7478.7
72.5°	1829.0	1887.1	2309.2	3426.0	5926.6	9035.2	10364.7	10383.4	9836.7	9950.2	6881.1
75°	1121.7	1183.1	1448.5	2076.2	3759.9	7105.9	9576.3	9705.7	9318.7	8871.8	5621.2
77.5°	750.0	773.0	945.2	1210.5	1703.4	4088.3	7362.5	7605.9	7741.3	6469.9	3594.9
80°	418.3	462.2	626.7	752.2	757.7	1624.5	4414.5	4471.5	4307.1	2576.2	1109.1
82.5°	221.5	245.6	418.3	441.9	413.4	543.9	1645.3	1647.0	1376.1	690.8	329.5
85°	171.6	191.9	286.7	269.7	211.1	241.2	542.8	572.4	468.2	282.9	107.5
87.5°	85.5	106.4	194.6	171.1	82.8	69.1	194.1	207.2	184.8	110.7	38.9
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°	2863.0	2863.0	2863.0	2863.0	2863.0	2863.0	2863.0	2863.0	2863.0	2863.0	2863.0
2.5°	2870.1	2875.0	2881.1	2874.5	2872.3	2863.5	2848.7	2845.4	2837.8	2838.3	2842.7
5°	2895.3	2903.5	2900.3	2875.0	2844.9	2802.7	2758.8	2721.5	2696.9	2695.2	2693.6
7.5°	2943.6	2949.1	2923.3	2851.5	2767.0	2669.4	2577.3	2496.7	2447.9	2435.9	2433.1
10°	3019.2	3018.1	2947.4	2802.7	2634.4	2460.0	2312.0	2200.1	2134.9	2115.7	2110.8
12.5°	3103.7	3091.0	2955.6	2713.9	2446.9	2205.1	2017.6	1893.1	1825.1	1803.2	1797.7
15°	3190.8	3159.6	2935.3	2581.2	2216.6	1930.4	1733.6	1618.4	1581.7	1569.6	1567.5
17.5°	3272.0	3211.7	2877.2	2401.3	1954.0	1656.8	1503.3	1457.3	1466.0	1481.9	1482.5
20°	3351.5	3246.8	2784.0	2174.4	1677.1	1431.5	1379.4	1413.4	1455.1	1487.4	1491.8
22.5°	3429.9	3271.4	2664.0	1912.3	1429.3	1304.8	1341.6	1403.5	1451.2	1486.3	1492.3
25°	3495.7	3277.5	2498.4	1632.7	1257.1	1257.1	1323.5	1382.1	1429.3	1463.8	1469.9
27.5°	3519.8	3236.9	2264.8	1373.9	1170.5	1235.2	1298.3	1347.1	1387.1	1423.8	1430.4
30°	3529.1	3161.8	1995.1	1166.1	1134.9	1211.6	1264.3	1305.9	1343.8	1378.3	1384.3
32.5°	3530.7	3071.3	1708.9	1048.3	1110.2	1187.0	1222.1	1258.8	1299.4	1313.1	1315.3
35°	3541.2	2964.4	1407.4	988.0	1087.2	1163.9	1191.9	1218.2	1152.4	1157.4	1161.7
37.5°	3571.3	2858.6	1155.2	954.0	1072.4	1151.9	1185.3	1089.9	1038.4	1026.3	1024.7
40°	3627.8	2745.6	968.2	926.5	1066.9	1157.9	1143.1	1017.6	928.7	862.4	852.5
42.5°	3706.2	2623.9	848.7	908.5	1070.7	1187.0	1084.4	947.9	800.4	757.7	752.2
45°	3794.5	2496.2	784.0	895.8	1083.9	1209.4	1072.4	855.3	740.7	708.3	705.6
47.5°	3880.0	2339.9	750.6	890.4	1102.0	1191.4	1021.4	826.8	712.2	695.2	696.8
50°	3978.1	2199.0	730.3	884.3	1117.9	1179.8	963.8	812.0	701.2	722.0	744.0
52.5°	4060.9	2053.2	712.2	872.3	1123.9	1159.6	949.0	814.7	701.2	741.2	762.1
55°	4159.0	1943.0	691.3	847.1	1112.4	1102.0	938.6	831.2	709.4	684.2	686.4
57.5°	4285.7	1906.8	668.3	807.6	1074.0	1018.1	933.7	847.1	704.5	688.6	694.1
60°	4461.1	1945.2	659.0	756.0	1014.3	952.3	934.2	838.8	670.0	642.6	643.1
62.5°	4628.3	1988.0	658.5	723.7	940.8	893.7	921.6	812.0	652.4	636.5	642.6
65°	4683.2	1944.7	632.1	687.5	858.0	823.5	898.6	783.5	639.3	615.1	614.0
67.5°	4609.7	1810.3	579.0	628.8	763.2	741.8	868.4	749.5	618.4	598.7	595.4
70°	4391.5	1510.4	513.2	551.5	655.2	649.7	820.7	710.0	590.5	573.5	559.2
72.5°	3804.3	1076.2	432.6	458.9	533.4	551.0	754.9	658.5	551.0	514.3	492.3
75°	3124.5	796.6	355.3	360.8	405.2	452.9	664.5	598.1	504.4	441.9	424.9
77.5°	1913.4	487.4	282.9	285.1	290.6	361.3	547.2	530.7	445.2	368.4	356.4
80°	619.5	265.9	204.5	214.9	198.5	264.8	423.3	451.8	382.1	308.1	295.0
82.5°	235.7	155.2	138.2	145.3	137.6	177.6	308.7	361.8	313.1	253.3	206.1
85°	114.0	87.7	81.7	91.6	85.0	91.0	197.4	266.5	237.4	165.0	153.5
87.5°	40.6	38.9	31.3	42.2	36.2	32.3	60.3	134.3	156.8	113.5	101.4
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)