

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: P317411

Luminaire Tested: **GAN-SA7C-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317411
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-SA7C-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47467 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

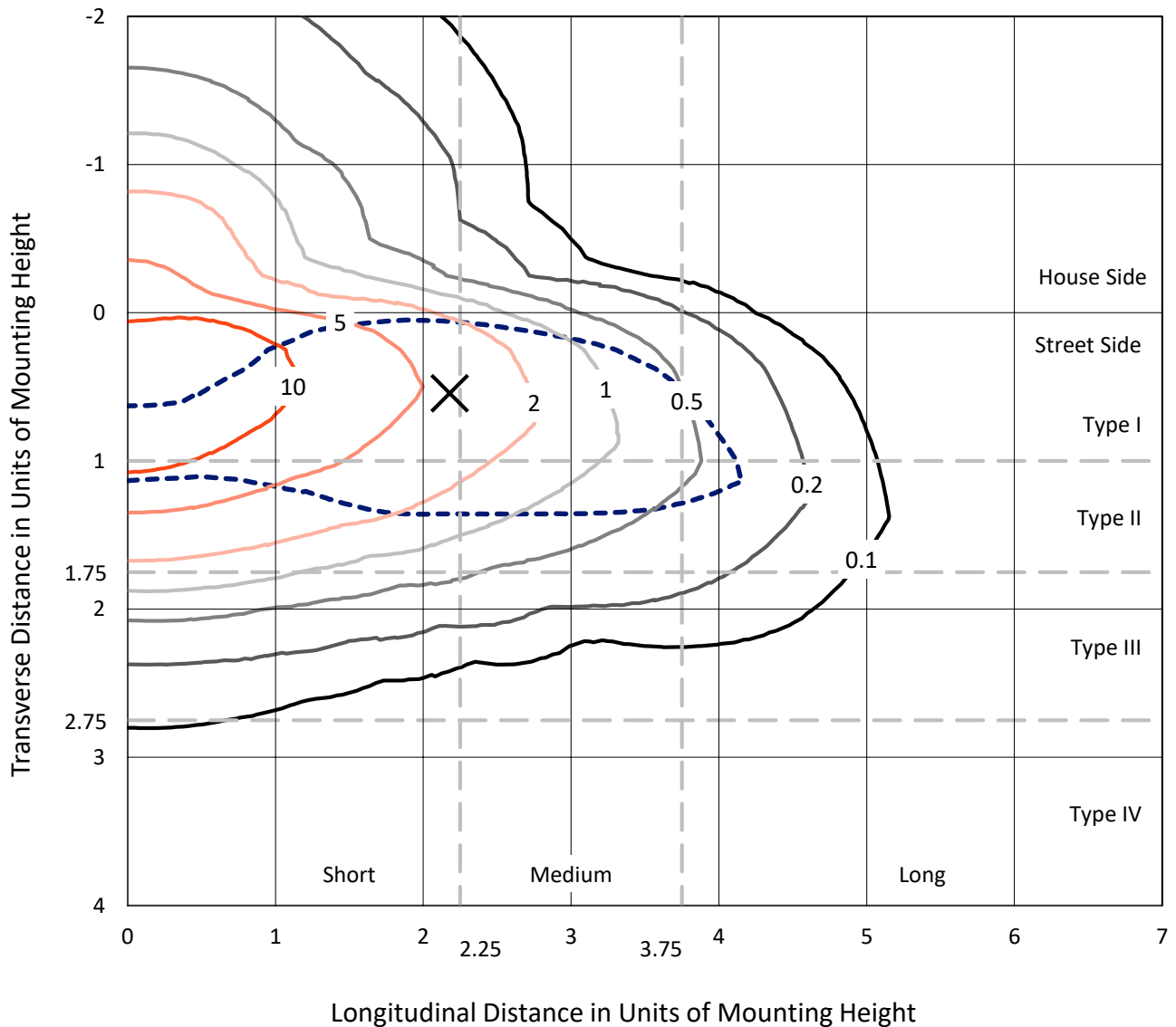
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

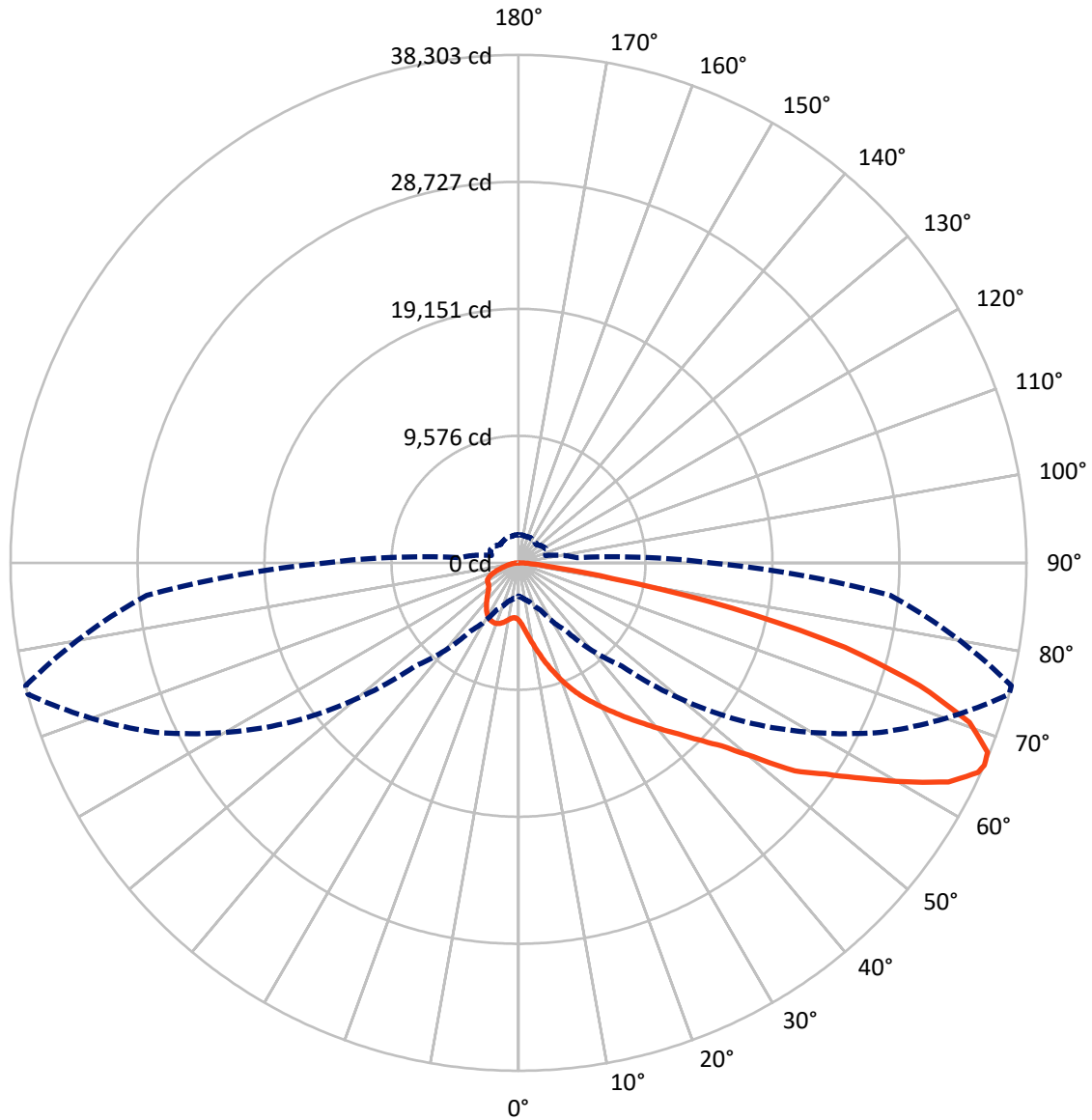
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 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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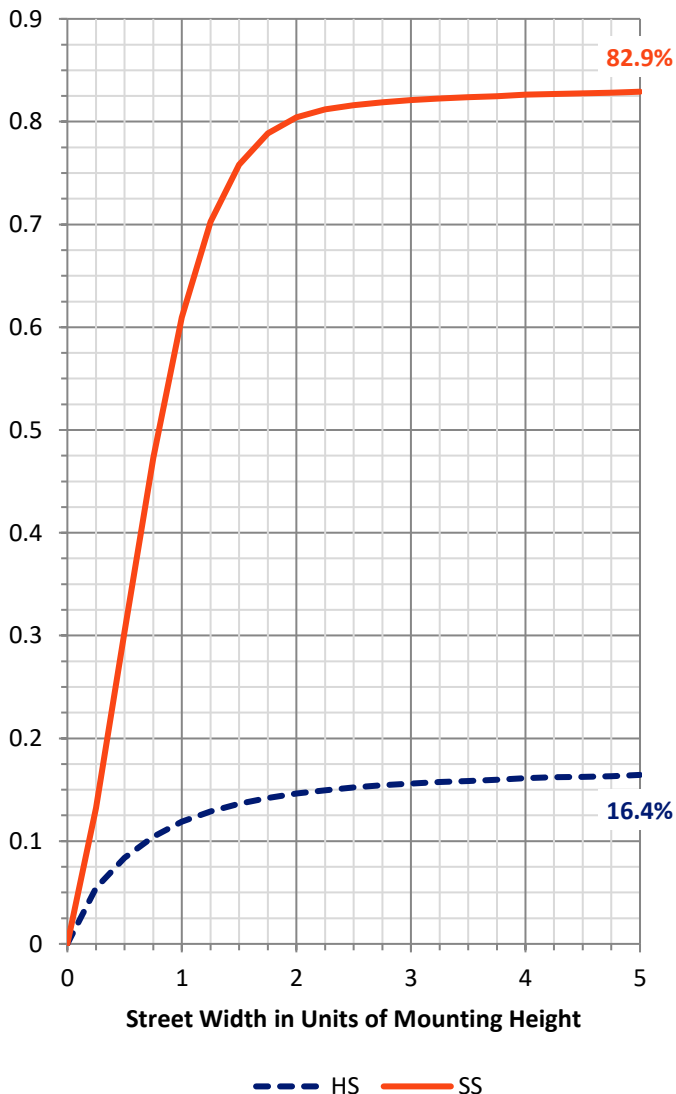
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7987.1	0.0	7987.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	39479.9	0.0	39479.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	47467.0	0.0	47467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.2	1.1
10°-20°	2070.0	4.4
20°-30°	4022.5	8.5
30°-40°	6565.7	13.8
40°-50°	8970.3	18.9
50°-60°	10448.6	22.0
60°-70°	9367.4	19.7
70°-80°	4733.9	10.0
80°-90°	764.5	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°	47467.0	100.0
0°-180°	47467.0	100.0

Coefficient of Utilization

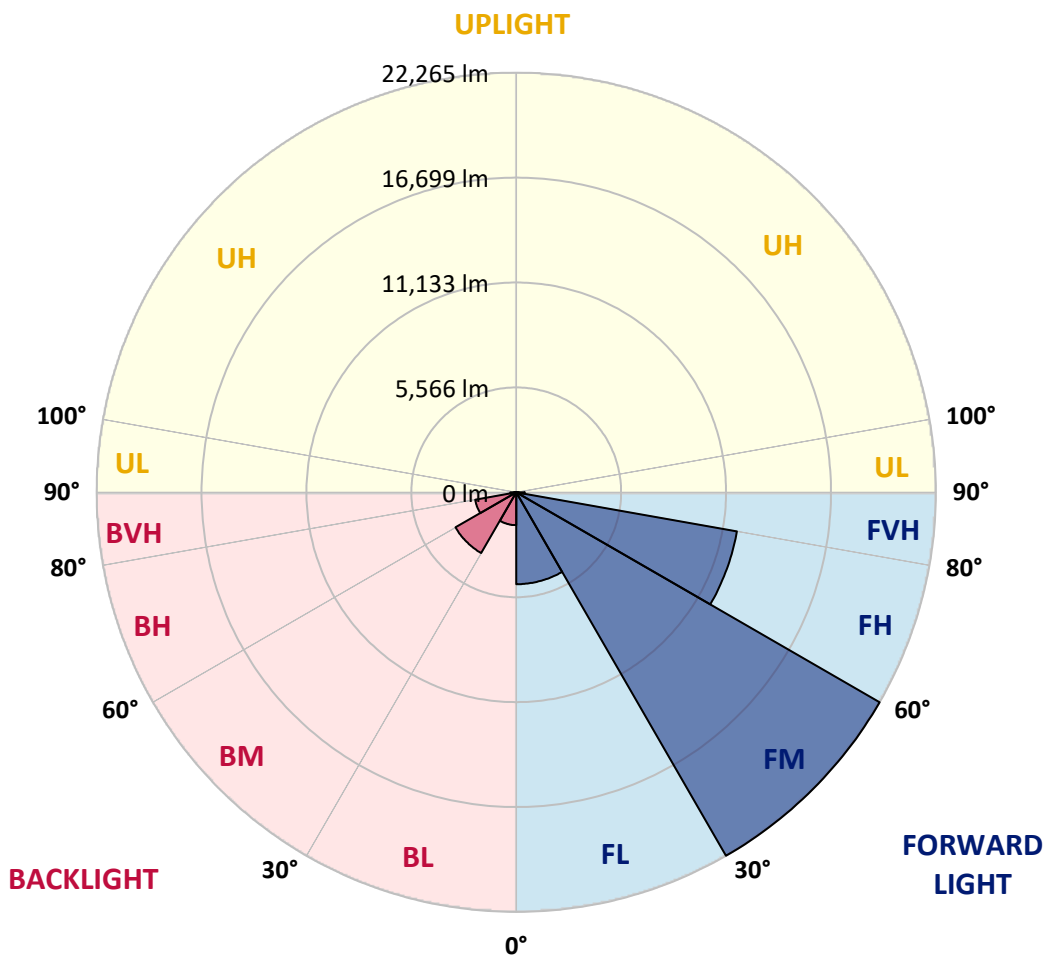


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4874.7	10.3			
FM (30°-60°)	22265.3	46.9			
FH (60°-80°)	11888.4	25.0			G4/12000
FVH (80°-90°)	451.5	1.0			G3/500
BL (0°-30°)	1742.0	3.7	B3/2500		
BM (30°-60°)	3719.3	7.8	B3/5000		
BH (60°-80°)	2212.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	313.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8
2.5°	5754.5	5667.5	5659.4	5532.1	5503.1	5259.8	5080.9	4894.0	4681.3	4639.4	4471.8
5°	7391.7	7383.7	7272.5	7064.6	6901.9	6486.1	6075.2	5640.1	5163.1	5085.7	4708.7
7.5°	8864.6	8851.7	8766.3	8542.3	8307.0	7796.2	7209.6	6542.5	5769.0	5654.6	5029.3
10°	9982.9	9978.1	9949.1	9784.7	9584.9	9095.0	8447.2	7536.8	6473.2	6316.9	5430.6
12.5°	10846.7	10856.4	10875.7	10817.7	10722.6	10305.2	9641.3	8590.7	7224.1	7069.4	5877.0
15°	11431.6	11460.7	11560.6	11642.7	11692.7	11436.5	10793.5	9668.7	8065.3	7880.0	6371.7
17.5°	11726.5	11758.8	11931.2	12179.4	12408.2	12382.4	11871.6	10696.8	8872.7	8693.8	6903.5
20°	11981.2	12005.3	12198.7	12496.8	12901.3	13080.2	12793.3	11686.3	9757.3	9544.6	7467.5
22.5°	12719.2	12749.8	12807.8	12977.0	13334.8	13663.5	13524.9	12622.5	10567.9	10369.7	8002.5
25°	14143.7	14180.8	14055.1	13911.7	13979.4	14208.2	14234.0	13476.6	11389.7	11165.8	8577.8
27.5°	15859.9	15913.1	15698.8	15329.7	15007.5	14918.8	14888.2	14175.9	12174.5	11915.1	9146.6
30°	17540.7	17632.5	17353.7	16875.1	16283.7	15868.0	15560.2	14860.8	12948.0	12699.9	9683.2
32.5°	19182.7	19145.7	18741.2	18273.9	17580.9	17060.4	16316.0	15595.6	13818.2	13533.0	10216.6
35°	20307.5	20320.4	19944.9	19390.6	18729.9	18330.3	17328.0	16388.5	14706.1	14443.5	10822.5
37.5°	21264.7	21205.1	20779.7	20262.4	19693.6	19522.7	18512.4	17261.9	15668.2	15381.3	11467.1
40°	21583.8	21514.5	21235.7	20863.5	20407.4	20392.9	19819.3	18251.3	16755.9	16472.3	12193.9
42.5°	21390.4	21301.8	21187.4	21085.9	20945.7	21010.1	21047.2	19411.6	17951.6	17634.1	13035.0
45°	20676.5	20542.8	20623.4	20844.1	21148.7	21512.9	22155.9	20695.9	19290.7	19024.8	14022.9
47.5°	19579.1	19458.3	19709.7	20181.8	21010.1	21931.9	23204.9	22114.0	20889.3	20625.0	15429.7
50°	18035.4	18070.8	18430.2	19289.1	20541.2	22125.2	24497.3	23991.3	23213.0	22966.4	17348.9
52.5°	15502.2	15508.6	16520.6	17930.6	19709.7	22025.3	25214.4	26390.8	26385.9	26087.8	19176.3
55°	13149.5	13292.9	14093.8	15967.9	18362.5	21625.7	25715.6	27557.5	28469.5	28119.8	20879.6
57.5°	10851.5	10935.3	11694.3	13576.5	16440.0	20560.5	26229.6	28957.8	30870.6	30649.8	22997.0
60°	8237.7	8366.7	9151.4	10890.2	13981.0	18670.3	26278.0	30419.4	33740.6	33518.2	25361.0
62.5°	5346.8	5569.2	6304.0	7933.2	11006.2	15951.8	25156.4	31375.0	36460.7	36381.8	27459.2
65°	3073.0	3240.6	3751.5	5008.4	7593.2	12538.7	22489.4	31007.6	38135.0	38089.9	28243.9
66°	2510.6	2615.4	3007.0	3914.2	6265.3	11011.1	20939.2	30232.5	38301.0	38302.6	28153.7
67.5°	2007.9	2054.6	2230.3	2802.3	4623.3	8727.6	18169.1	28522.7	38094.7	38151.1	27572.0
70°	1661.4	1685.6	1740.4	1879.0	2523.5	5263.0	12896.5	24079.9	36024.0	36067.5	25301.4
72.5°	1490.6	1505.1	1526.0	1545.4	1780.7	2940.9	7876.8	19263.3	31584.5	31640.9	21841.6
75°	1350.4	1358.5	1355.2	1356.8	1493.8	1874.1	4070.5	14382.2	25538.3	25425.5	16731.7
77.5°	1186.0	1194.1	1178.0	1181.2	1321.4	1440.6	2025.6	10068.4	17234.5	16438.4	9427.0
80°	1002.3	1008.8	1002.3	1013.6	1150.6	1087.7	1178.0	5664.3	7620.6	7208.0	3351.8
82.5°	757.4	784.8	804.1	849.2	947.5	773.5	788.0	2206.1	2320.5	2209.3	1028.1
85°	332.0	404.5	605.9	649.4	712.3	464.1	517.3	899.2	944.3	915.3	373.9
87.5°	87.0	95.1	299.7	377.1	394.8	209.5	269.1	409.3	431.9	409.3	124.1
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°	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8	4334.8
2.5°	4383.2	4304.2	4162.4	4036.7	3941.6	3877.2	3812.7	3780.5	3761.1	3741.8	3745.0
5°	4523.3	4363.8	4120.5	3948.1	3851.4	3790.1	3757.9	3745.0	3737.0	3717.6	3717.6
7.5°	4734.4	4508.8	4173.7	3996.4	3920.7	3873.9	3854.6	3848.1	3838.5	3815.9	3819.1
10°	5000.3	4684.5	4284.9	4112.4	4043.1	3991.6	3964.2	3954.5	3936.8	3911.0	3914.2
12.5°	5313.0	4902.0	4431.5	4251.0	4167.2	4097.9	4052.8	4025.4	3994.8	3961.0	3962.6
15°	5654.6	5138.9	4589.4	4375.1	4260.7	4164.0	4091.5	4044.7	3996.4	3954.5	3952.9
17.5°	6001.0	5367.7	4710.3	4442.8	4288.1	4160.8	4062.5	3990.0	3930.3	3878.8	3873.9
20°	6374.9	5574.0	4778.0	4436.3	4236.5	4085.0	3954.5	3864.3	3798.2	3746.6	3738.6
22.5°	6755.2	5767.4	4789.2	4370.3	4122.1	3936.8	3799.8	3699.9	3632.2	3579.0	3559.7
25°	7103.3	5917.3	4742.5	4243.0	3962.6	3762.7	3629.0	3527.5	3472.7	3409.8	3390.5
27.5°	7420.7	6022.0	4649.0	4080.2	3783.7	3587.1	3461.4	3374.4	3314.8	3266.4	3250.3
30°	7706.0	6078.4	4496.0	3886.8	3600.0	3421.1	3314.8	3255.1	3203.6	3142.3	3131.1
32.5°	7976.7	6078.4	4299.4	3675.7	3417.9	3274.5	3211.6	3174.6	3116.5	3056.9	3040.8
35°	8247.4	6041.3	4067.3	3455.0	3250.3	3169.7	3166.5	3123.0	3034.4	2953.8	2932.8
37.5°	8532.6	5965.6	3806.3	3248.7	3113.3	3123.0	3150.4	3053.7	2928.0	2813.6	2783.0
40°	8854.9	5860.9	3535.5	3069.8	2998.9	3102.0	3106.9	2953.8	2708.9	2604.1	2576.7
42.5°	9233.6	5756.1	3284.1	2911.9	2908.7	3039.2	3024.7	2737.9	2591.2	2538.0	2523.5
45°	9731.6	5696.5	3045.6	2762.0	2837.8	2937.7	2884.5	2618.6	2557.4	2526.8	2513.9
47.5°	10516.3	5727.1	2826.5	2642.8	2766.9	2836.2	2623.4	2570.3	2526.8	2489.7	2476.8
50°	11499.3	5709.4	2649.2	2560.6	2686.3	2729.8	2505.8	2507.4	2484.9	2443.0	2423.6
52.5°	12239.0	5570.8	2534.8	2513.9	2615.4	2541.3	2431.7	2446.2	2434.9	2373.7	2352.7
55°	12952.9	5451.5	2476.8	2496.1	2563.8	2306.0	2344.7	2380.1	2368.8	2309.2	2299.5
57.5°	13840.8	5429.0	2441.4	2501.0	2520.3	2188.4	2260.9	2307.6	2299.5	2273.8	2268.9
60°	14928.5	5435.4	2409.1	2509.0	2472.0	2101.3	2181.9	2241.5	2246.4	2241.5	2238.3
62.5°	15526.3	5259.8	2328.5	2486.5	2386.6	2025.6	2099.7	2186.7	2188.4	2198.0	2196.4
65°	15018.7	4734.4	2178.7	2407.5	2243.1	1962.7	2028.8	2123.9	2099.7	2143.2	2143.2
66°	14525.6	4431.5	2104.6	2355.9	2181.9	1938.6	2006.3	2091.7	2061.0	2120.7	2120.7
67.5°	13518.5	3920.7	1970.8	2246.4	2094.9	1904.7	1980.5	2038.5	1996.6	2085.2	2078.8
70°	11678.2	3032.8	1701.7	1998.2	1951.5	1854.8	1945.0	1932.1	1870.9	2006.3	1980.5
72.5°	9846.0	2304.4	1366.5	1672.7	1733.9	1791.9	1895.1	1796.8	1719.4	1814.5	1758.1
75°	7639.9	1732.3	1079.7	1300.4	1464.8	1693.6	1835.4	1640.5	1529.3	1519.6	1489.0
77.5°	4130.2	1189.3	855.7	992.7	1163.5	1571.2	1795.2	1472.9	1305.3	1266.6	1242.4
80°	1635.6	773.5	622.0	752.5	813.8	1393.9	1698.5	1277.9	1076.5	1037.8	1000.7
82.5°	675.2	457.7	401.3	504.4	530.2	1192.5	1524.4	1047.4	831.5	1150.6	1221.5
85°	290.1	251.4	238.5	261.1	299.7	836.3	1213.4	799.3	897.6	800.9	636.5
87.5°	87.0	106.4	101.5	99.9	109.6	199.8	646.2	444.8	659.1	249.8	186.9
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)