

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: P383068

Luminaire Tested: **GAN-SA4A-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13467.4 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

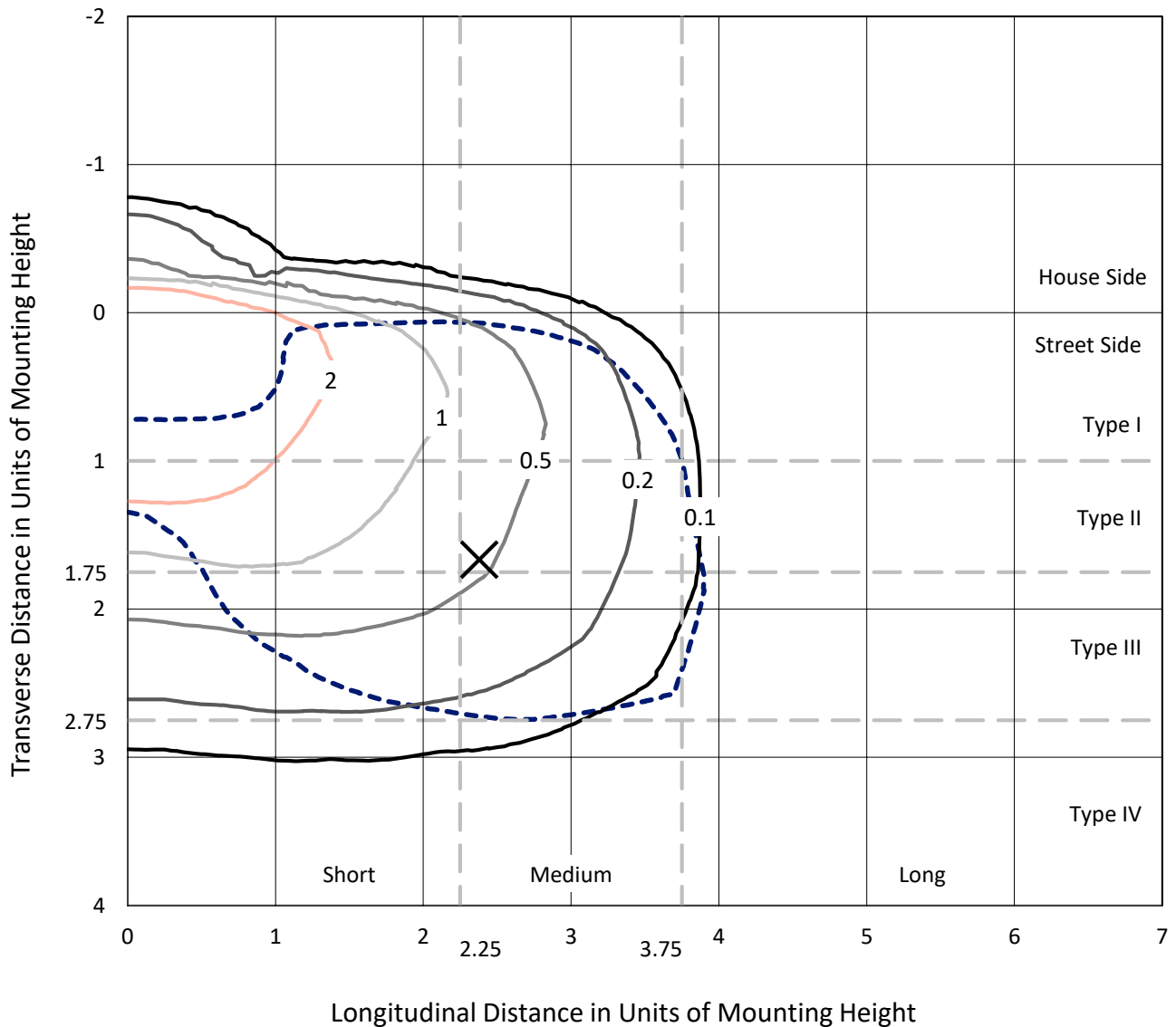
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

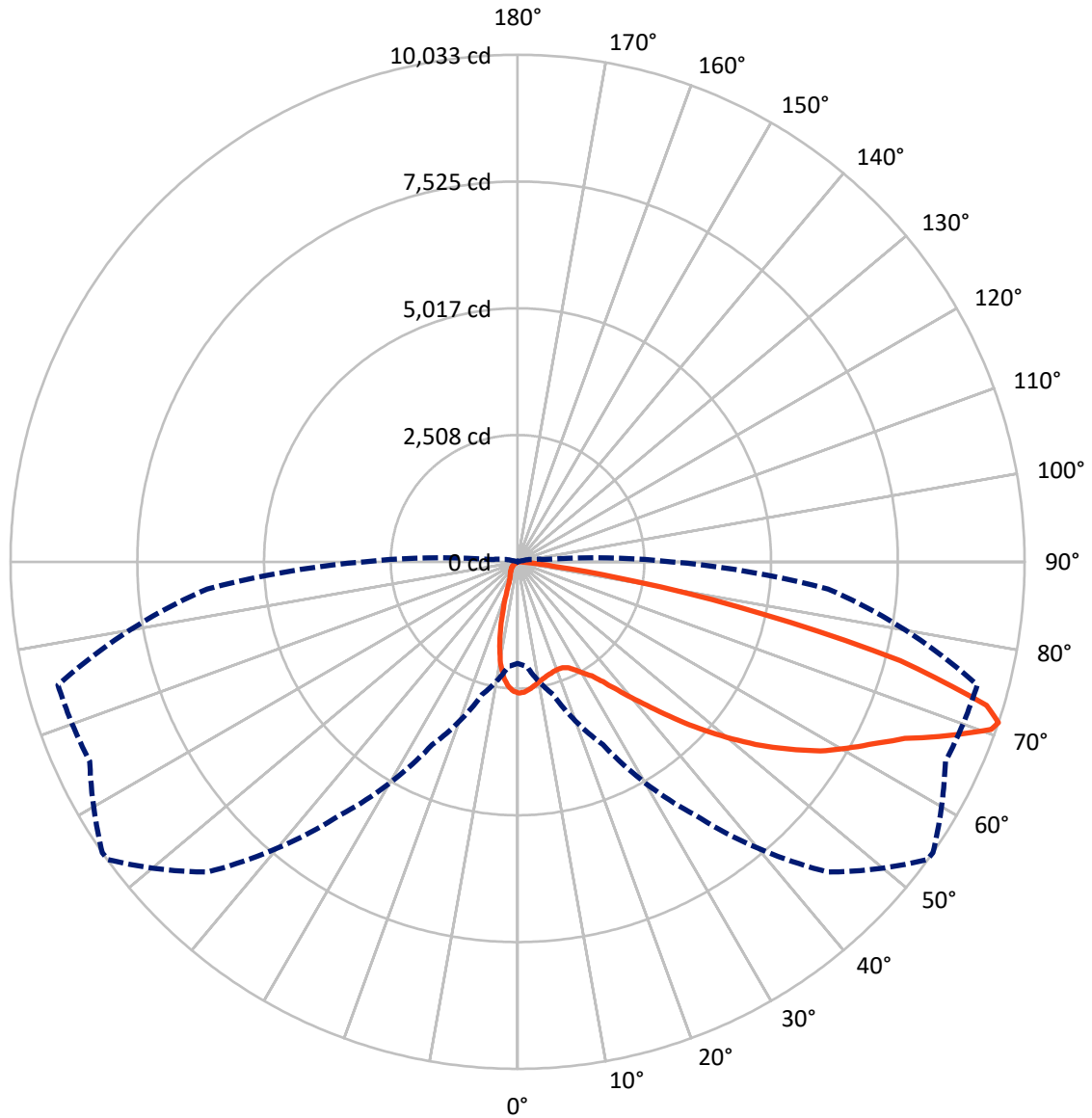
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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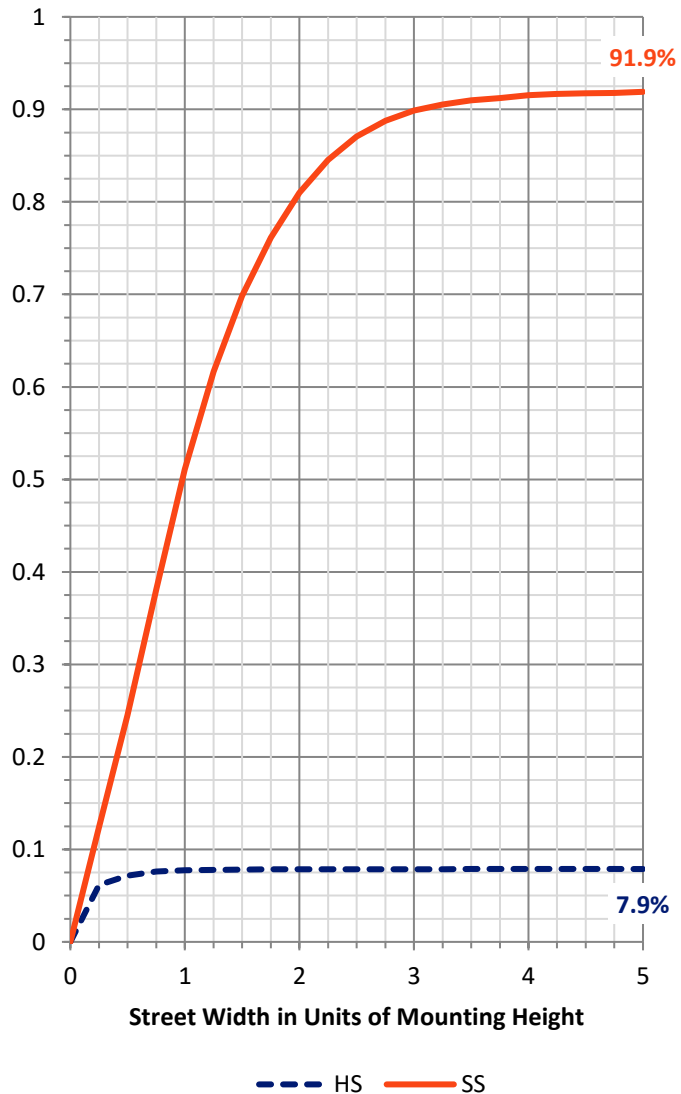
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1066.2	0.0	1066.2
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	12401.2	0.0	12401.2
	% Fixture	92.1	0.0	92.1
Total	Lumens	13467.4	0.0	13467.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.4	1.6
10°-20°	499.9	3.7
20°-30°	803.4	6.0
30°-40°	1365.0	10.1
40°-50°	2118.7	15.7
50°-60°	2848.6	21.2
60°-70°	3484.7	25.9
70°-80°	2037.4	15.1
80°-90°	88.1	0.7
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°	13467.4	100.0
0°-180°	13467.4	100.0

Coefficient of Utilization



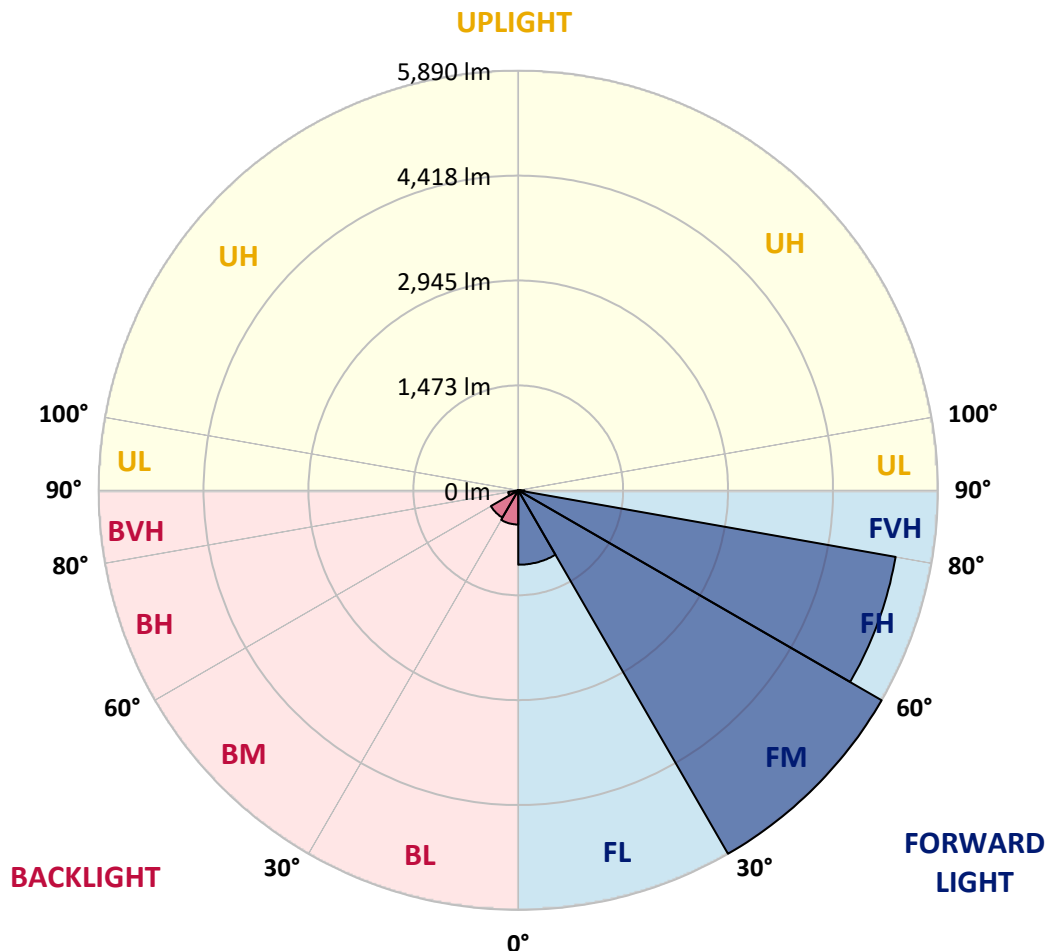
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1044.9	7.8			
FM (30°-60°)	5890.2	43.7			
FH (60°-80°)	5379.3	39.9			G3/7500
FVH (80°-90°)	86.7	0.6			G1/100
BL (0°-30°)	479.9	3.6	B1/500		
BM (30°-60°)	442.1	3.3	B1/1000		
BH (60°-80°)	142.8	1.1	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2
2.5°	2521.0	2524.0	2534.9	2539.8	2551.2	2570.6	2580.3	2580.9	2596.6	2602.7	2607.5
5°	2342.7	2360.8	2378.9	2398.3	2433.4	2479.9	2525.9	2530.1	2580.9	2618.4	2638.3
7.5°	2189.0	2205.3	2227.1	2258.0	2307.5	2380.8	2457.5	2466.6	2562.8	2648.0	2692.7
10°	2031.2	2044.6	2076.0	2121.3	2189.7	2287.6	2391.0	2406.2	2546.5	2688.0	2766.5
12.5°	1862.5	1870.4	1908.5	1973.8	2074.2	2198.7	2334.8	2354.8	2536.1	2733.9	2853.6
15°	1734.4	1737.9	1774.2	1841.9	1956.8	2118.9	2291.2	2315.5	2538.6	2789.0	2948.5
17.5°	1701.7	1703.4	1722.8	1769.4	1871.0	2047.5	2256.8	2286.4	2545.8	2842.7	3044.1
20°	1834.1	1821.4	1801.4	1794.2	1837.8	2004.6	2236.2	2269.4	2555.5	2890.5	3130.0
22.5°	2197.5	2160.1	2077.2	1966.5	1899.4	2007.7	2241.7	2274.9	2586.3	2949.2	3229.1
25°	2736.9	2684.9	2544.1	2326.4	2117.1	2094.7	2287.0	2320.9	2646.2	3019.3	3324.1
27.5°	3350.7	3299.3	3126.9	2816.2	2459.4	2267.1	2391.0	2422.5	2735.1	3081.7	3396.7
30°	3938.5	3924.0	3720.8	3367.6	2889.9	2546.5	2525.2	2551.9	2801.0	3119.1	3454.1
32.5°	4436.8	4413.8	4250.6	3907.0	3382.7	2882.0	2683.1	2691.0	2850.6	3167.4	3529.1
35°	4898.7	4870.3	4727.0	4402.3	3888.3	3292.1	2926.2	2914.7	2958.9	3264.8	3638.0
37.5°	5302.1	5328.1	5169.1	4860.1	4341.9	3718.4	3254.0	3219.5	3128.1	3423.3	3795.8
40°	5639.5	5639.5	5556.7	5299.1	4831.7	4159.2	3624.7	3579.3	3382.7	3667.6	3996.0
42.5°	5761.1	5787.1	5817.9	5672.2	5270.0	4617.6	4037.7	3990.5	3741.4	4014.0	4248.7
45°	5768.3	5809.5	5967.3	5966.7	5666.1	5072.9	4503.3	4480.9	4200.9	4459.1	4562.0
47.5°	5666.1	5717.6	5977.6	6125.1	5980.0	5496.8	5012.5	4984.6	4740.9	5004.6	4889.7
50°	5508.3	5565.2	5867.5	6187.4	6193.5	5865.7	5548.9	5507.1	5335.3	5628.0	5228.3
52.5°	5225.9	5336.0	5769.0	6201.9	6333.8	6184.4	6059.2	6041.1	6000.6	6228.5	5498.0
55°	4621.8	4744.0	5521.7	6206.7	6463.7	6466.8	6537.5	6542.4	6624.0	6789.7	5698.8
57.5°	4336.4	4405.3	5089.9	6229.7	6656.7	6787.3	7024.9	7062.4	7188.8	7322.4	5928.0
60°	4156.8	4238.4	4877.0	6198.3	6959.6	7207.6	7476.6	7489.4	7624.8	7872.1	6238.2
62.5°	4013.5	4093.9	4742.8	6077.3	7300.1	7713.1	7918.1	7919.3	8020.9	8527.0	6590.7
65°	3659.7	3727.4	4471.2	5941.3	7525.0	8213.2	8430.9	8423.1	8505.9	9217.6	7000.1
67.5°	3148.2	3200.1	3916.7	5425.4	7440.4	8668.0	9204.9	9178.9	9078.5	9814.4	7161.0
70°	2433.9	2452.7	3087.1	4521.5	6647.0	8842.7	9952.9	9939.6	9429.9	9707.4	6571.4
71°	2011.9	2073.5	2720.6	3990.5	6115.4	8681.2	10025.5	10033.3	9341.6	9416.0	6165.6
72.5°	1168.3	1220.9	1972.0	3064.7	5192.1	8007.6	9649.3	9706.3	8929.2	8564.6	5266.4
75°	250.3	267.9	731.1	1483.4	2856.0	5612.3	7616.3	7818.9	7277.7	5826.4	3174.2
77.5°	174.2	188.1	313.3	673.0	943.9	2773.2	4731.2	4959.8	4347.9	2189.7	1015.9
80°	137.9	153.6	244.3	332.6	255.2	894.4	2216.2	2356.0	1450.1	488.6	171.1
82.5°	76.8	91.3	190.5	179.6	98.0	169.9	620.4	701.5	290.3	98.6	40.5
85°	22.4	27.2	122.8	130.6	41.7	32.7	105.8	131.3	55.1	26.0	18.2
87.5°	0.0	0.0	59.2	50.2	12.1	4.8	9.7	10.9	10.9	10.9	12.1
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°	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2	2597.2
2.5°	2607.5	2611.8	2596.6	2576.7	2555.5	2529.5	2502.3	2481.1	2480.5	2470.3	2459.9
5°	2639.5	2637.1	2595.4	2531.9	2457.0	2378.9	2304.6	2220.5	2192.7	2158.2	2146.8
7.5°	2698.8	2681.9	2593.6	2454.5	2290.0	2126.7	1958.0	1788.1	1715.5	1650.2	1638.8
10°	2773.2	2741.2	2582.2	2338.4	2036.6	1735.6	1481.0	1250.0	1148.3	1070.3	1066.7
12.5°	2850.6	2801.6	2550.1	2163.1	1704.6	1281.3	988.1	760.7	676.0	621.6	626.5
15°	2931.7	2858.5	2481.1	1926.6	1326.7	869.6	607.1	473.5	439.6	425.7	429.4
17.5°	3014.5	2897.8	2384.9	1641.8	953.6	561.2	420.3	382.8	382.8	385.8	387.1
20°	3086.4	2918.9	2243.4	1322.5	646.4	408.8	367.7	362.2	365.3	370.1	370.7
22.5°	3157.8	2920.1	2059.0	999.0	452.4	358.0	350.2	347.7	349.5	354.9	355.6
25°	3215.9	2905.6	1828.1	710.5	361.0	337.4	333.8	332.6	333.8	340.5	340.5
27.5°	3239.5	2853.1	1546.3	499.5	323.5	314.5	313.3	314.5	316.3	321.1	321.7
30°	3241.9	2761.1	1239.1	361.6	293.3	283.6	286.0	290.3	288.4	287.2	288.4
32.5°	3247.9	2654.7	939.7	297.5	267.9	252.7	249.7	249.7	242.5	238.3	235.9
35°	3267.9	2529.5	681.5	267.3	241.9	224.3	212.9	199.5	185.7	178.4	176.6
37.5°	3299.3	2398.3	488.0	247.3	218.9	199.0	177.2	153.6	133.7	128.2	128.2
40°	3356.7	2262.8	361.0	231.6	200.7	176.0	143.3	112.4	94.4	91.3	91.3
42.5°	3447.5	2120.1	287.8	217.7	185.0	152.4	109.5	81.6	68.4	66.5	66.0
45°	3541.8	1962.9	251.5	204.4	168.1	125.2	81.0	60.5	52.6	50.8	50.8
47.5°	3636.1	1795.4	234.0	191.7	151.7	97.3	60.5	47.8	44.2	44.2	44.7
50°	3715.9	1620.6	221.3	177.7	130.6	73.8	47.8	40.5	39.3	41.7	42.3
52.5°	3735.9	1448.9	205.6	160.2	104.6	56.3	39.3	35.7	35.7	35.7	35.7
55°	3723.8	1315.8	185.0	138.5	77.4	44.7	33.9	31.5	30.8	30.8	30.8
57.5°	3764.9	1237.3	148.1	107.6	55.6	36.2	29.6	27.9	26.6	26.0	26.0
60°	3847.8	1185.9	105.8	77.4	41.7	30.3	25.4	23.6	21.8	20.6	20.6
62.5°	3957.9	1141.1	78.6	57.5	32.0	24.2	21.1	19.4	17.0	15.7	15.7
65°	4042.5	1061.3	59.9	42.9	24.2	19.4	16.3	15.7	12.1	10.9	10.2
67.5°	3913.1	885.9	48.3	31.5	18.2	15.1	12.7	12.1	7.3	6.1	6.1
70°	3356.2	616.8	38.7	23.0	13.3	12.1	10.2	7.8	5.4	4.8	4.8
71°	3043.6	515.2	35.1	19.4	11.5	11.5	9.7	6.6	4.8	4.2	4.2
72.5°	2528.3	365.8	29.6	15.1	10.2	12.1	10.2	6.1	4.8	4.2	3.6
75°	1467.7	153.0	20.6	10.2	7.8	14.5	13.3	5.4	3.6	3.0	3.0
77.5°	441.5	56.3	11.5	6.6	6.1	12.7	15.1	4.8	1.8	0.6	0.6
80°	80.4	24.2	7.3	4.2	4.2	7.8	11.5	2.4	0.0	0.0	0.0
82.5°	28.4	12.1	4.2	2.4	1.8	3.6	5.4	0.0	0.0	0.0	0.0
85°	16.3	8.5	2.4	1.2	0.0	0.6	1.2	0.0	0.0	0.0	0.0
87.5°	10.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)