

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: P321910

Luminaire Tested: **GAN-SA6A-740-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6A-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19829 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

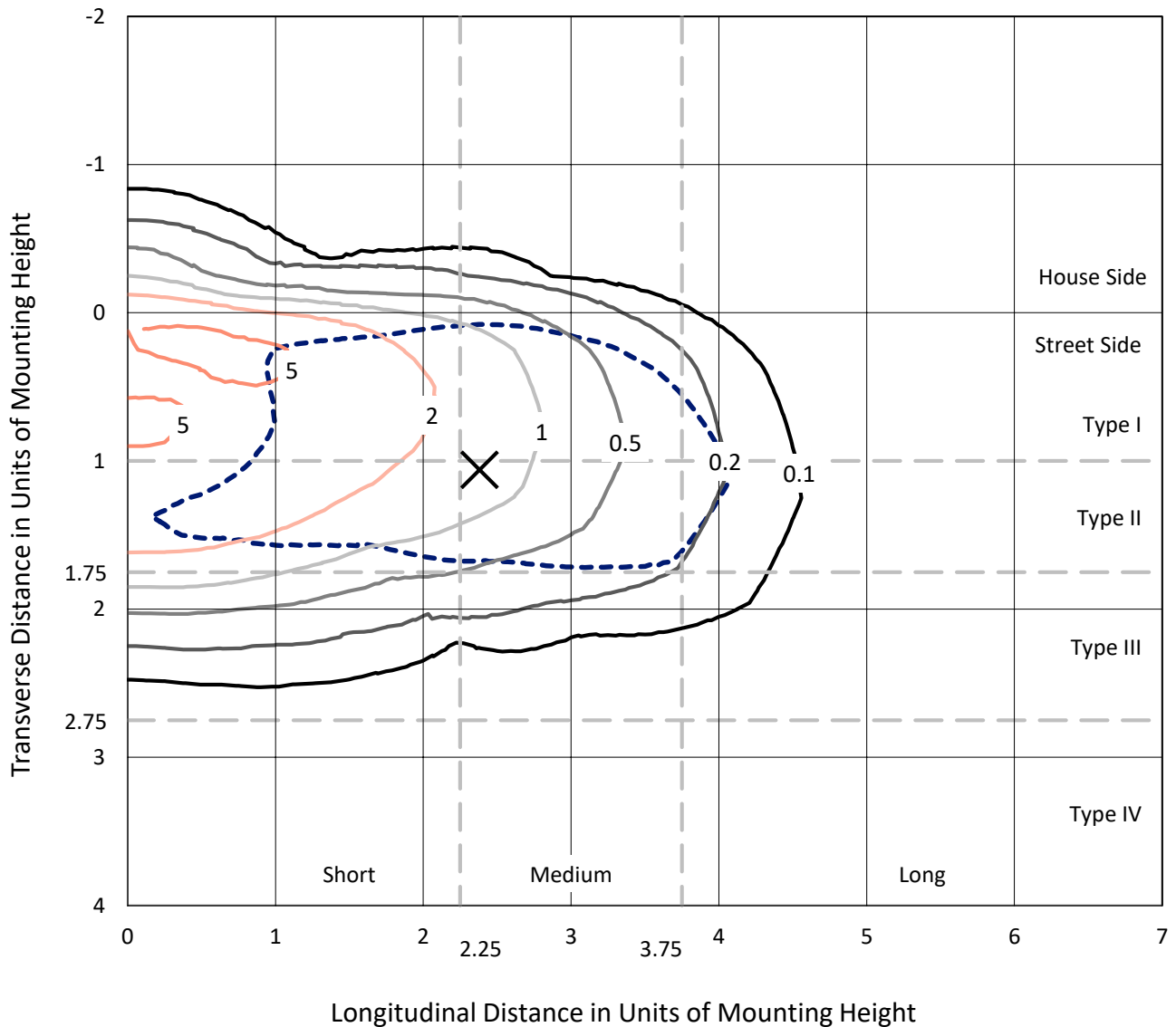
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

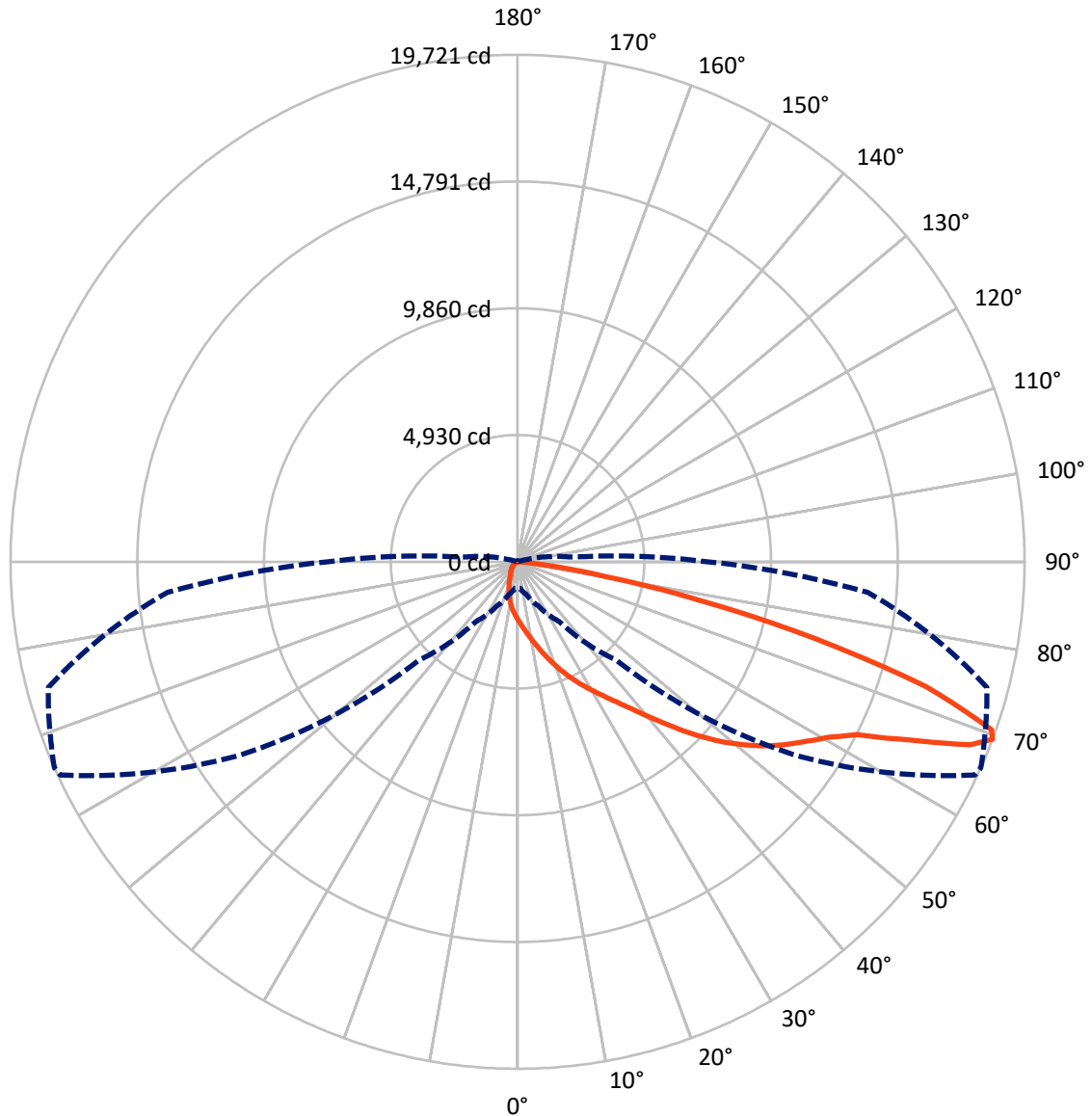
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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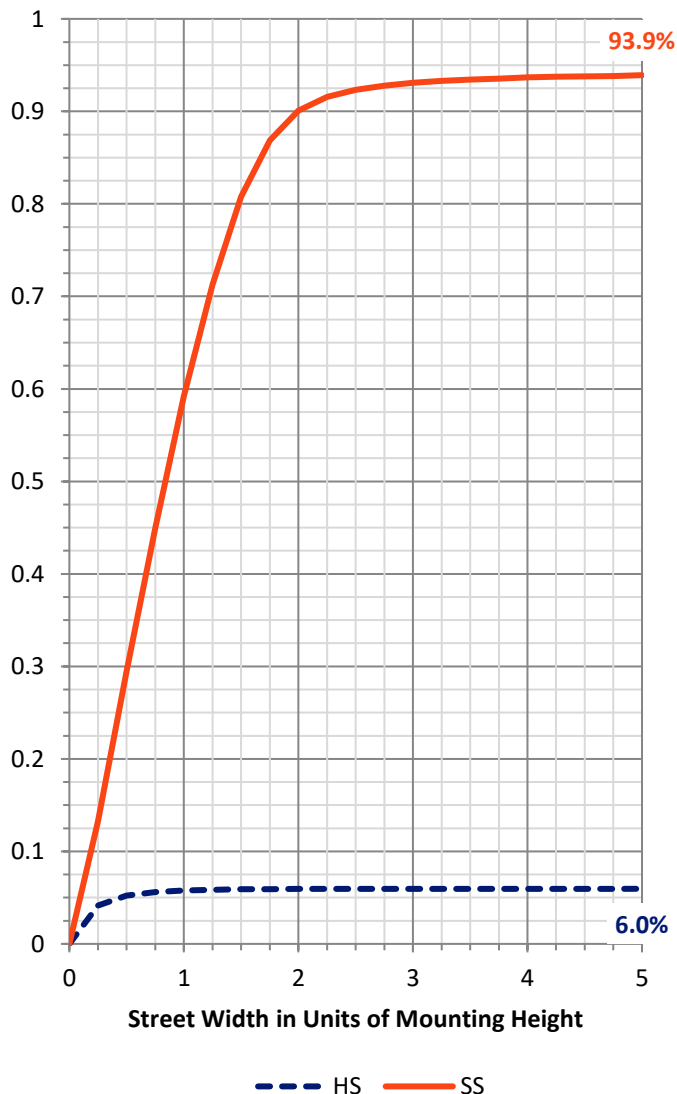
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1189.5	0.0	1189.5
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	18639.5	0.0	18639.5
	% Fixture	94.0	0.0	94.0
Total	Lumens	19829.0	0.0	19829.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.1	1.1
10°-20°	649.2	3.3
20°-30°	1130.5	5.7
30°-40°	1983.4	10.0
40°-50°	3320.0	16.7
50°-60°	4880.1	24.6
60°-70°	5010.6	25.3
70°-80°	2473.6	12.5
80°-90°	163.6	0.8
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°	19829.0	100.0
0°-180°	19829.0	100.0

Coefficient of Utilization



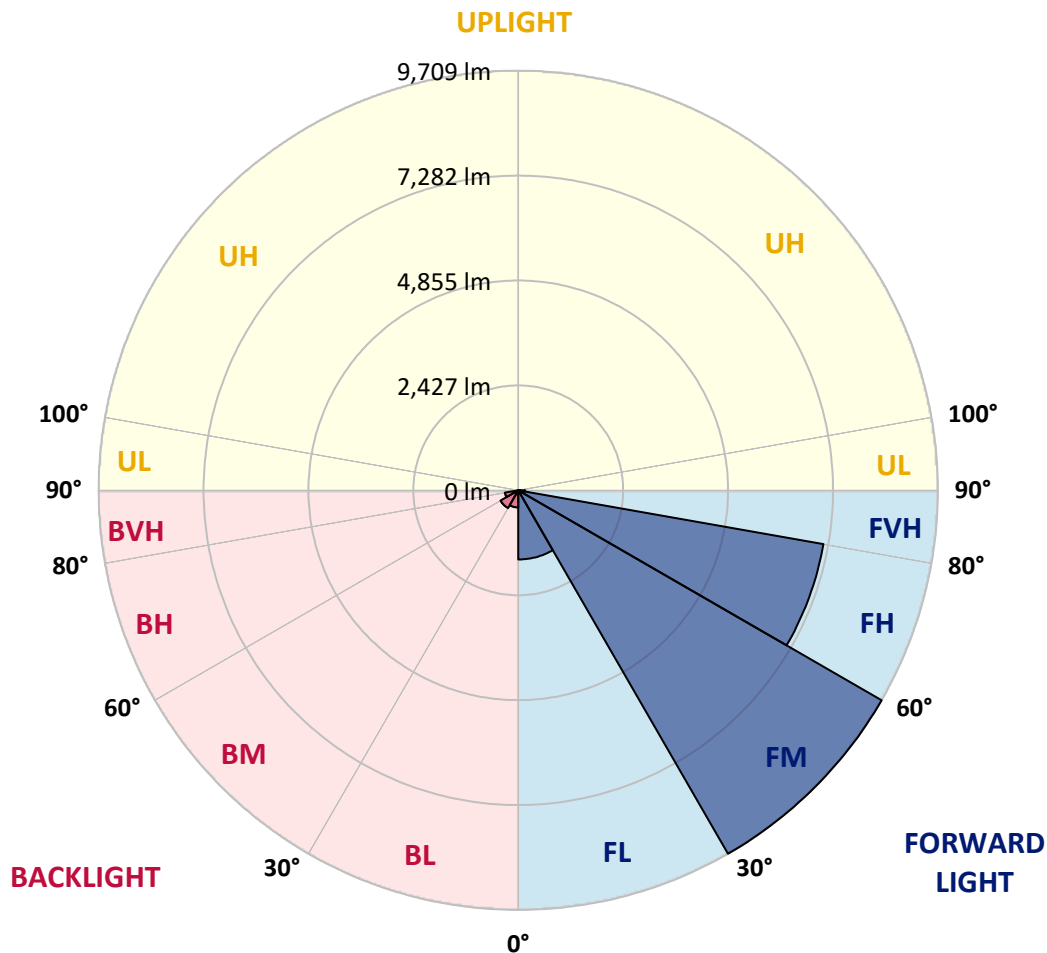
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1600.0	8.1			
FM (30°-60°)	9709.2	49.0			
FH (60°-80°)	7170.7	36.2			G3/7500
FVH (80°-90°)	159.6	0.8			G2/225
BL (0°-30°)	397.8	2.0	B1/500		
BM (30°-60°)	474.2	2.4	B1/1000		
BH (60°-80°)	313.5	1.6	B1/500		G1/500
BVH (80°-90°)	4.0	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6
2.5°	2655.9	2644.6	2639.9	2619.2	2583.4	2556.1	2503.4	2442.1	2430.8	2371.5	2299.0
5°	3000.6	2991.2	2984.6	2955.4	2918.7	2850.0	2753.9	2639.9	2618.3	2505.2	2360.2
7.5°	3240.8	3257.8	3257.8	3238.9	3192.8	3141.0	3023.2	2867.8	2840.5	2667.2	2442.1
10°	3381.1	3401.9	3417.9	3433.9	3427.3	3406.6	3295.4	3120.3	3087.3	2857.5	2537.3
12.5°	3394.3	3415.0	3460.3	3527.1	3592.1	3639.2	3569.5	3400.0	3362.3	3077.9	2650.3
15°	3320.9	3342.5	3412.2	3542.2	3699.5	3837.0	3859.6	3709.8	3671.2	3340.6	2791.6
17.5°	3192.8	3206.9	3306.7	3486.6	3733.4	3985.8	4122.4	4042.3	4006.5	3641.1	2948.8
20°	3097.7	3108.0	3195.6	3388.7	3712.7	4079.0	4371.0	4395.5	4357.8	3963.2	3119.3
22.5°	3260.6	3279.4	3282.2	3373.6	3656.2	4125.2	4589.5	4743.0	4714.8	4305.1	3287.0
25°	3706.1	3727.7	3656.2	3599.6	3704.2	4145.9	4776.9	5099.0	5076.4	4673.3	3455.5
27.5°	4294.7	4317.3	4225.0	4056.4	3955.6	4224.1	4943.6	5460.7	5459.7	5063.2	3637.3
30°	4873.0	4895.6	4801.4	4632.8	4401.1	4445.4	5087.7	5839.3	5844.9	5465.4	3830.4
32.5°	5479.5	5507.8	5410.8	5194.1	4952.1	4827.8	5290.2	6219.8	6251.8	5931.6	4047.9
35°	6168.9	6172.7	6036.1	5809.2	5530.4	5339.2	5615.1	6646.4	6722.7	6508.9	4323.9
37.5°	6845.2	6872.5	6760.4	6402.5	6146.3	5929.7	6098.3	7179.5	7287.8	7214.4	4684.6
40°	7346.2	7403.7	7387.6	7001.5	6758.5	6604.1	6698.2	7813.3	7950.9	8035.6	5139.5
42.5°	7660.8	7704.1	7777.6	7544.9	7324.5	7350.0	7406.5	8551.7	8721.3	8971.8	5662.2
45°	8021.5	8042.2	8103.4	8000.8	7852.0	8108.1	8158.1	9383.4	9561.4	9978.6	6242.4
47.5°	8462.3	8511.2	8528.2	8434.0	8366.2	8778.7	8882.3	10139.6	10389.2	11057.0	6856.5
50°	9023.6	9036.8	9066.0	9004.8	8936.9	9355.1	9532.2	10933.6	11160.6	12139.1	7462.1
52.5°	9572.7	9619.8	9721.5	9682.9	9655.6	9845.8	10111.4	11649.4	11902.7	13041.4	8066.7
55°	9730.9	9771.4	10122.7	10362.9	10585.1	10450.4	10665.2	12290.8	12564.8	13847.6	8648.7
57.5°	9098.9	9180.9	9789.3	10414.7	11336.7	11390.4	11426.2	12949.1	13194.9	14465.4	9254.3
60°	7501.6	7517.6	8515.9	9588.7	11212.4	12210.7	12537.5	13656.4	13862.7	15040.9	9979.5
62.5°	4771.3	4934.2	6029.5	7544.0	9897.6	12092.0	13881.5	14726.3	14801.7	15731.2	11019.3
65°	2272.6	2378.1	3167.3	4661.1	7169.1	10572.9	14809.2	16661.8	16695.7	17099.7	12408.5
67.5°	1258.3	1309.1	1684.9	2509.0	4191.1	7477.1	14434.4	18954.2	18986.2	18497.4	13627.2
69°	984.2	1027.5	1323.3	1891.2	2841.5	5374.0	13062.1	19625.7	19720.8	18897.6	13670.5
70°	835.4	877.8	1139.6	1597.3	2284.9	4152.5	11626.8	19459.0	19559.7	18860.0	13347.5
72.5°	511.4	535.9	759.1	1124.5	1531.4	2089.0	7170.1	16456.4	16626.9	17300.3	11471.4
75°	344.7	357.9	474.7	776.1	1095.3	1075.6	3724.9	11599.5	11968.7	13457.7	8472.6
77.5°	246.8	259.0	318.3	502.0	767.6	710.1	1686.8	7208.7	7287.8	8071.4	4620.6
80°	140.3	151.6	225.1	298.6	520.8	473.7	670.6	3443.3	3482.9	3461.2	1542.7
82.5°	73.5	82.9	123.4	196.8	334.3	309.9	278.8	1152.8	1158.4	963.5	338.1
85°	14.1	17.0	61.2	134.7	172.4	134.7	114.0	270.3	276.0	243.9	83.8
87.5°	0.0	0.9	24.5	30.1	33.9	34.8	36.7	52.7	56.5	76.3	22.6
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°	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6
2.5°	2267.0	2233.1	2168.1	2092.7	2034.3	1976.9	1931.7	1884.6	1867.6	1859.2	1858.2
5°	2289.6	2218.0	2080.5	1939.2	1823.4	1714.1	1635.9	1561.5	1526.7	1510.7	1504.1
7.5°	2327.2	2212.3	1991.0	1775.3	1608.6	1472.1	1363.8	1282.8	1242.3	1225.3	1218.7
10°	2371.5	2204.8	1886.5	1602.0	1389.2	1247.9	1140.5	1060.5	1016.2	997.4	988.0
12.5°	2423.3	2191.6	1765.9	1426.9	1201.8	1060.5	930.5	831.6	780.8	759.1	748.7
15°	2487.4	2178.4	1639.7	1262.0	1036.9	864.6	722.4	655.5	645.1	641.4	642.3
17.5°	2550.5	2157.7	1502.2	1099.1	863.7	675.3	602.8	599.0	600.9	600.9	600.9
20°	2607.0	2110.6	1352.5	959.7	698.8	569.8	554.7	548.1	543.4	539.7	535.0
22.5°	2651.2	2047.5	1208.4	821.3	570.7	521.8	498.2	477.5	460.6	449.2	443.6
25°	2681.4	1963.7	1076.5	688.5	513.3	474.7	432.3	397.4	371.1	355.1	348.5
27.5°	2704.0	1873.3	958.8	576.4	473.7	420.1	364.5	323.0	295.7	281.6	276.0
30°	2720.0	1770.6	855.2	506.7	429.5	362.6	303.3	262.8	243.0	235.5	231.7
32.5°	2735.0	1656.7	757.2	473.7	388.0	309.9	254.3	223.2	211.0	201.5	198.7
35°	2772.7	1551.2	664.0	438.9	345.6	264.7	218.5	195.9	183.7	178.0	176.1
37.5°	2862.2	1473.0	574.5	403.1	303.3	228.9	191.2	175.2	163.9	158.2	156.3
40°	3006.3	1433.5	499.2	364.5	261.8	201.5	173.3	158.2	146.0	137.5	135.6
42.5°	3218.2	1439.1	446.4	325.9	228.9	179.9	156.3	138.4	125.3	117.7	115.8
45°	3475.3	1480.5	409.7	288.2	201.5	162.9	137.5	118.7	106.4	99.8	97.9
47.5°	3754.1	1547.4	379.6	254.3	179.9	146.9	118.7	98.9	88.5	82.9	81.9
50°	4047.9	1612.4	348.5	221.3	161.1	130.9	99.8	81.9	73.5	68.8	66.9
52.5°	4345.6	1687.7	320.2	191.2	145.0	112.1	82.9	66.9	60.3	56.5	54.6
55°	4665.8	1744.3	292.9	167.6	129.0	95.1	68.8	55.6	49.9	45.2	44.3
57.5°	5042.5	1831.8	264.7	145.0	110.2	79.1	56.5	44.3	39.6	34.8	33.9
60°	5551.1	1934.5	234.5	128.1	90.4	65.0	46.1	35.8	30.1	26.4	25.4
62.5°	6221.7	2048.5	196.8	112.1	73.5	52.7	36.7	28.3	21.7	17.0	17.0
65°	7072.1	2234.0	161.1	94.2	60.3	43.3	28.3	20.7	12.2	7.5	7.5
67.5°	7568.5	2266.0	130.0	77.2	49.0	36.7	23.5	14.1	3.8	0.9	0.0
69°	7409.3	2080.5	110.2	65.9	42.4	34.8	21.7	10.4	1.9	0.0	0.0
70°	7109.8	1902.5	97.0	58.4	38.6	33.0	20.7	7.5	1.9	0.0	0.0
72.5°	5875.1	1354.3	73.5	43.3	28.3	29.2	18.8	4.7	1.9	0.0	0.0
75°	4279.6	823.2	52.7	30.1	17.9	21.7	13.2	1.9	0.9	0.0	0.0
77.5°	2380.9	388.0	33.0	17.0	11.3	13.2	6.6	0.0	0.0	0.0	0.0
80°	773.2	105.5	15.1	9.4	6.6	7.5	2.8	0.0	0.0	0.0	0.0
82.5°	143.2	30.1	8.5	4.7	1.9	1.9	0.0	0.0	0.0	0.0	0.0
85°	31.1	12.2	4.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.4	3.8	0.9	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)