

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: P318069

Luminaire Tested: **GAN-SA5A-740-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318069  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5A-740-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22856 lumens  
Efficiency: N/A  
Efficacy: 141.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

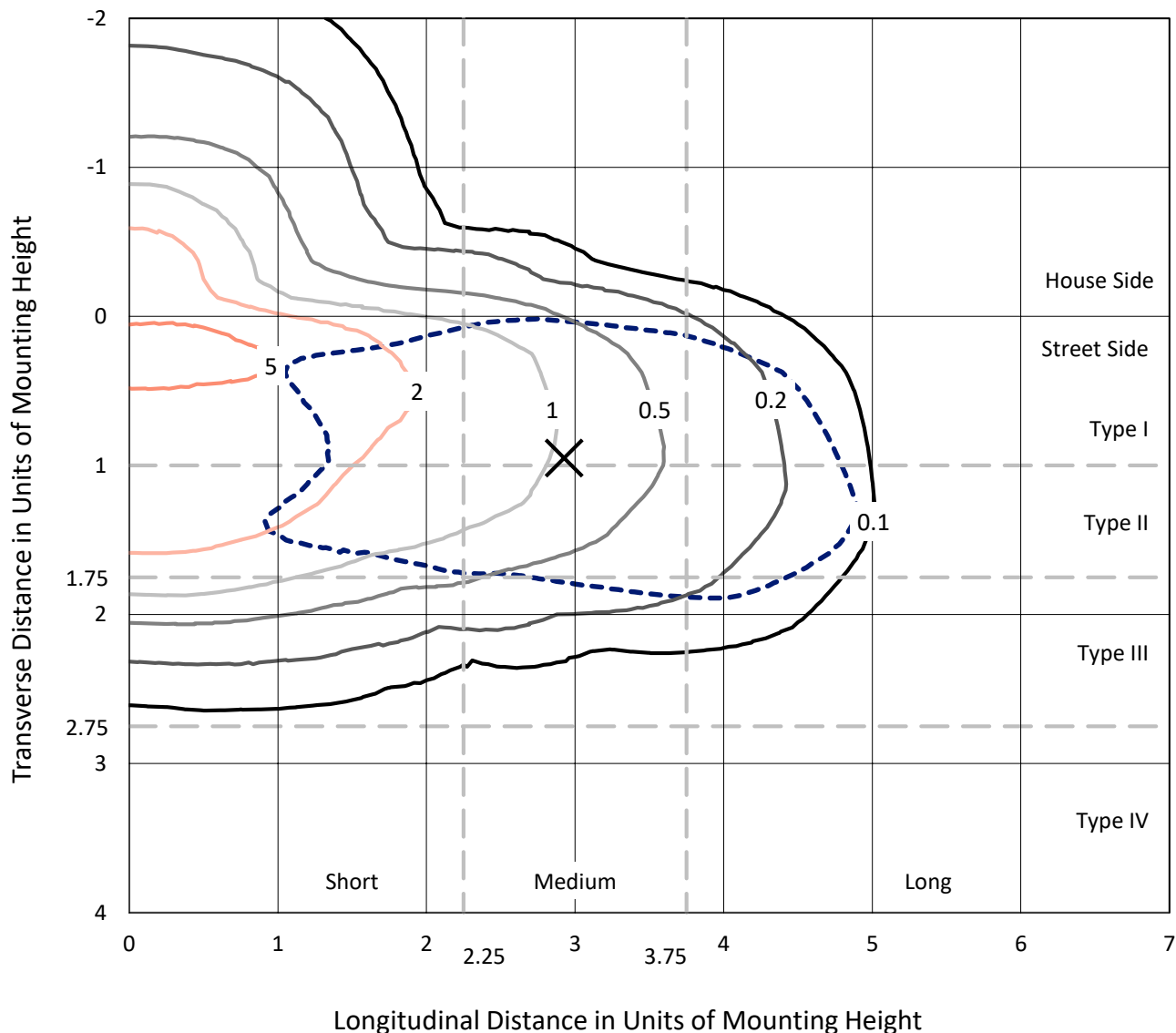
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

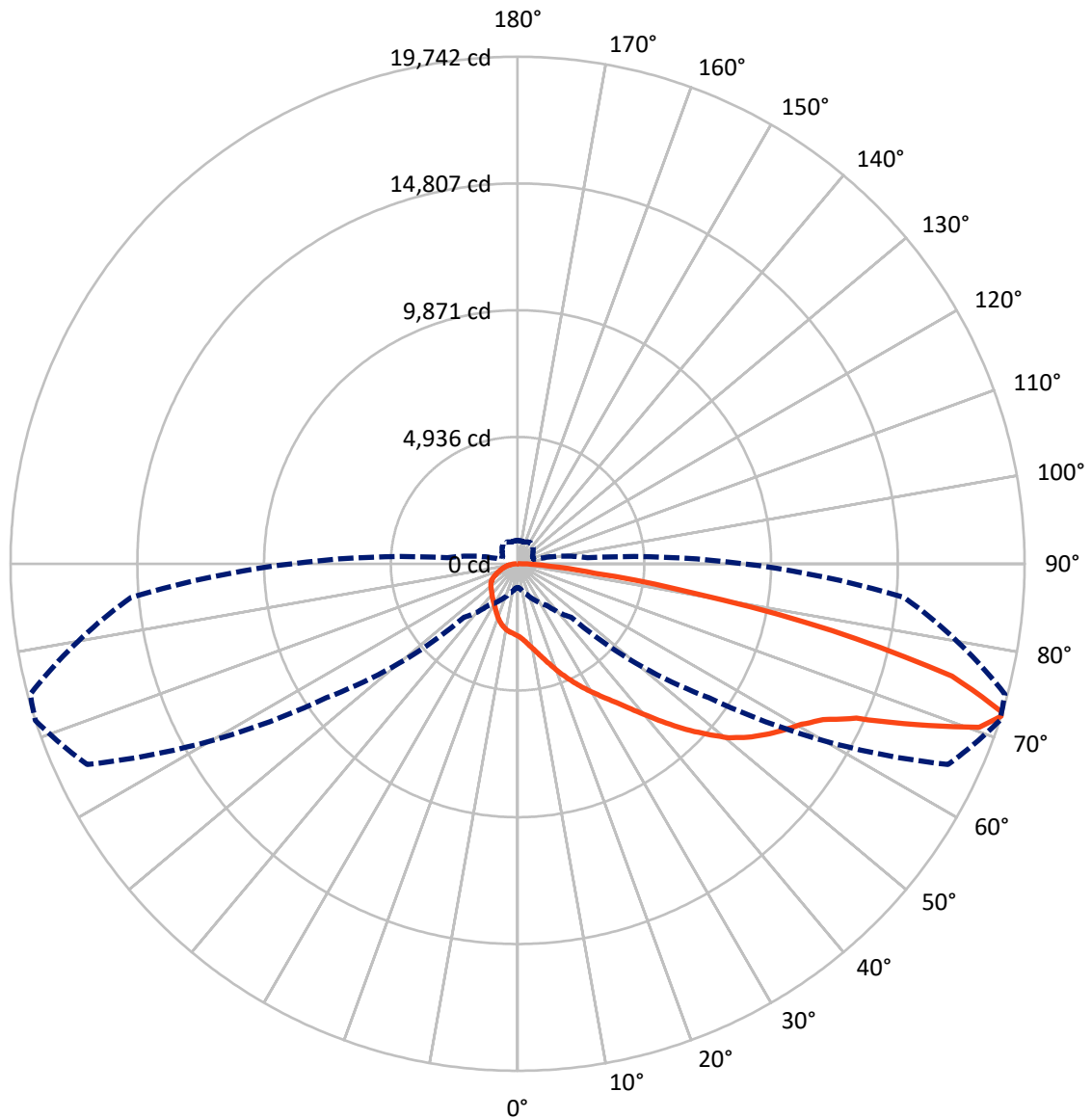
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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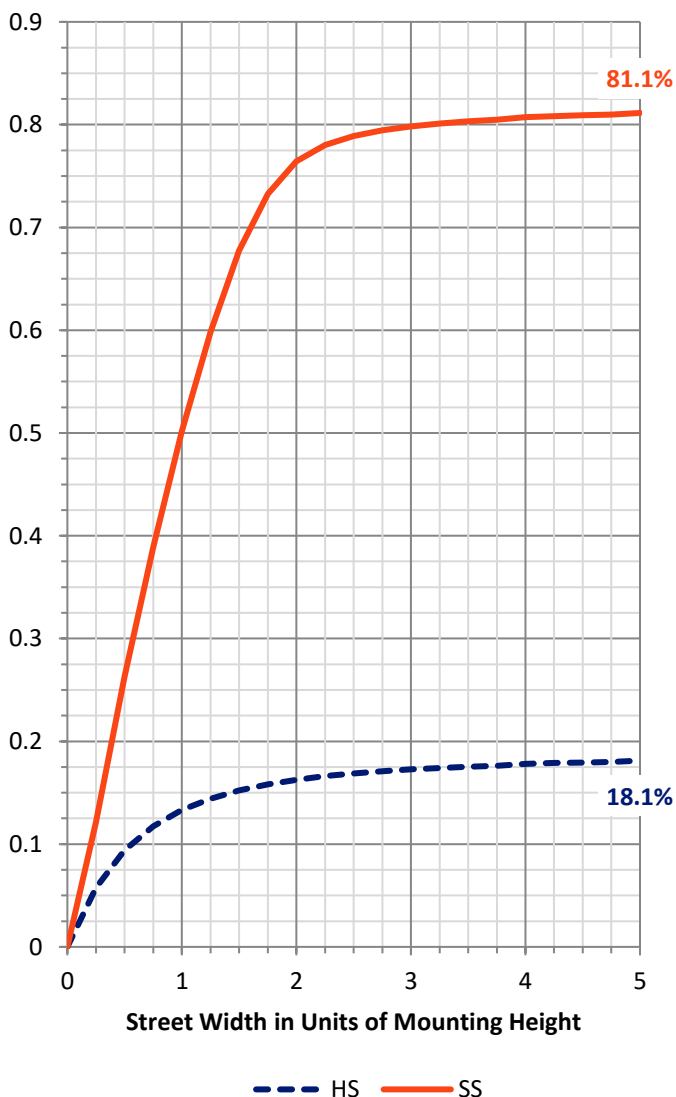
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4239.9	0.0	4239.9
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	18616.1	0.0	18616.1
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	22856.0	0.0	22856.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.8	1.2
10°-20°	910.5	4.0
20°-30°	1595.5	7.0
30°-40°	2365.6	10.4
40°-50°	3459.9	15.1
50°-60°	4760.8	20.8
60°-70°	5300.2	23.2
70°-80°	3591.4	15.7
80°-90°	590.3	2.6
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°	22856.0	100.0
0°-180°	22856.0	100.0

**Coefficient of Utilization**

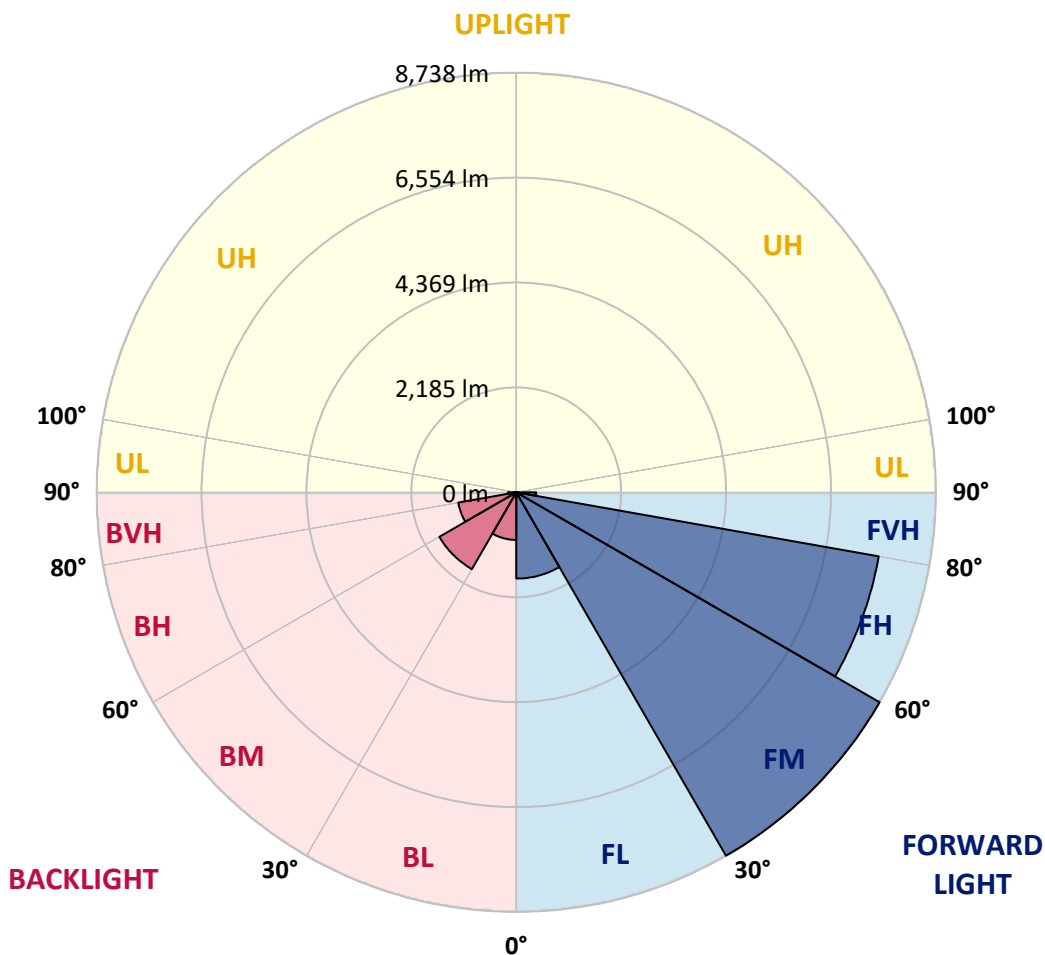


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1796.6	7.9			
FM (30°-60°)	8738.1	38.2			
FH (60°-80°)	7664.9	33.5			G4/12000
FVH (80°-90°)	416.4	1.8			G3/500
BL (0°-30°)	991.1	4.3	B2/1000		
BM (30°-60°)	1848.2	8.1	B2/2500		
BH (60°-80°)	1226.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	173.9	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2811.9	2811.9	2811.9	2811.9	2811.9	2811.9	2811.9	2811.9	2811.9	2811.9	2811.9
2.5°	3106.2	3101.5	3085.0	3085.0	3053.5	3026.7	2976.4	2942.5	2902.4	2888.2	2841.0
5°	3406.8	3408.4	3388.0	3373.8	3327.4	3270.7	3184.9	3107.0	3029.1	2997.6	2900.8
7.5°	3659.5	3656.3	3650.8	3639.0	3595.7	3537.5	3421.8	3306.1	3191.2	3144.0	2977.2
10°	3821.6	3828.7	3833.4	3838.9	3820.8	3779.1	3669.7	3528.8	3378.5	3314.0	3068.4
12.5°	3903.4	3916.0	3938.1	3975.8	4005.7	4001.0	3921.5	3772.0	3593.4	3512.3	3182.6
15°	3951.4	3968.0	4002.6	4070.3	4154.5	4202.5	4181.2	4045.9	3846.8	3746.8	3321.8
17.5°	3981.3	3994.7	4048.2	4138.7	4263.9	4391.4	4447.2	4333.9	4133.2	4019.1	3481.6
20°	4001.8	4012.0	4078.9	4185.2	4347.3	4550.3	4706.1	4677.8	4448.8	4300.9	3648.4
22.5°	4047.4	4056.1	4119.8	4226.9	4406.3	4668.4	4955.6	4998.1	4781.7	4614.1	3827.1
25°	4174.9	4174.9	4228.5	4303.2	4471.6	4770.7	5166.5	5354.6	5121.7	4926.5	3992.4
27.5°	4418.1	4415.8	4435.4	4461.4	4588.9	4874.6	5354.6	5669.4	5474.2	5261.0	4152.9
30°	4706.1	4721.9	4724.2	4711.7	4771.5	5004.4	5528.5	6001.5	5829.2	5599.4	4317.4
32.5°	5076.8	5087.0	5075.2	5033.5	5024.9	5188.6	5699.3	6349.4	6213.2	5952.7	4467.7
35°	5547.4	5527.8	5490.8	5405.8	5324.7	5434.9	5894.5	6697.2	6644.5	6380.1	4674.7
37.5°	6051.9	6052.7	6007.0	5814.2	5702.5	5749.7	6163.6	7091.5	7166.3	6888.4	4939.9
40°	6456.4	6477.6	6506.0	6252.6	6107.8	6173.1	6506.0	7548.7	7783.2	7491.3	5285.4
42.5°	6738.9	6763.3	6843.6	6684.6	6534.3	6655.5	6908.9	8036.7	8475.8	8187.0	5689.9
45°	7038.0	7051.4	7108.0	7039.5	6943.5	7216.6	7363.0	8541.9	9208.5	8928.3	6142.4
47.5°	7352.8	7366.9	7425.2	7379.5	7329.2	7740.7	7836.8	9018.0	9910.5	9742.8	6625.6
50°	7741.5	7751.0	7806.1	7723.4	7739.2	8135.8	8260.2	9454.8	10646.3	10474.7	7110.4
52.5°	8272.0	8274.3	8350.7	8275.9	8201.9	8425.4	8624.5	9866.4	11223.1	11142.1	7595.2
55°	8687.5	8712.7	8962.9	8947.2	8904.7	8688.3	8929.1	10258.3	11737.8	11776.4	8109.8
57.5°	8422.3	8520.6	9027.5	9384.8	9732.6	9342.3	9340.7	10699.8	12216.3	12398.9	8675.7
60°	7376.4	7510.2	8257.0	9049.5	10137.9	10480.2	10195.3	11238.9	12699.5	13015.9	9384.8
62.5°	5268.1	5488.4	6500.5	7765.9	9582.3	11234.2	11934.6	12094.3	13356.6	13730.5	10306.3
65°	2663.1	2830.0	3678.4	5202.7	7655.8	10741.5	13824.9	13967.3	14498.6	14830.7	11725.2
67.5°	1618.0	1681.0	2094.9	2893.7	4693.6	8367.2	14441.9	17089.3	16708.4	16884.7	13748.6
70°	1192.3	1238.7	1496.8	1921.8	2699.3	4910.0	12548.4	19317.2	19067.0	19047.3	15243.8
72°	928.6	962.5	1190.7	1552.7	1973.7	2945.7	9095.1	18494.8	19742.2	19643.1	15106.9
72.5°	880.6	910.5	1118.3	1461.4	1865.1	2670.2	8177.5	17940.0	19693.4	19648.6	14929.8
75°	693.3	714.6	827.9	1130.1	1459.9	1514.9	4481.1	13902.8	17470.2	18196.6	13428.3
77.5°	573.7	576.9	636.7	822.4	1138.0	1071.1	2201.2	9646.0	12509.9	13308.6	9512.2
80°	467.5	471.4	499.7	576.9	861.0	792.5	1045.1	5546.6	7004.1	7012.8	4523.6
82.5°	372.2	373.0	404.5	421.8	618.6	566.6	598.9	2604.1	3060.6	2944.1	1625.9
85°	262.1	256.6	395.1	346.3	404.5	363.6	330.5	1030.9	1265.5	1210.4	509.2
87.5°	87.4	90.5	175.5	224.3	236.1	206.2	147.2	395.1	477.7	473.8	161.3
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°	2811.9	2811.9	2811.9	2811.9	2811.9	2811.9	2811.9	2811.9	2811.9	2811.9	2811.9
2.5°	2826.0	2800.9	2763.9	2723.0	2690.7	2657.6	2633.2	2620.6	2606.5	2594.7	2608.8
5°	2856.0	2808.7	2730.0	2652.9	2596.3	2545.9	2509.7	2490.8	2473.5	2461.7	2463.3
7.5°	2904.7	2828.4	2696.2	2583.7	2505.0	2450.7	2413.7	2401.1	2390.1	2386.9	2390.8
10°	2956.7	2844.2	2651.3	2501.8	2412.1	2367.2	2350.7	2359.4	2367.2	2374.3	2382.2
12.5°	3015.7	2858.3	2586.0	2405.8	2329.5	2312.2	2328.7	2366.5	2394.0	2410.5	2420.8
15°	3092.8	2870.9	2510.5	2309.8	2258.6	2278.3	2334.2	2399.5	2447.5	2478.2	2482.9
17.5°	3163.7	2870.1	2413.7	2213.0	2201.2	2258.6	2342.8	2434.9	2499.5	2542.7	2551.4
20°	3236.9	2848.9	2301.1	2118.6	2143.0	2237.4	2346.8	2457.7	2535.7	2586.0	2597.8
22.5°	3305.3	2811.9	2177.6	2032.8	2094.2	2209.1	2331.8	2444.4	2522.3	2563.2	2575.8
25°	3351.8	2747.4	2052.4	1960.4	2050.9	2174.4	2283.0	2373.5	2431.8	2452.2	2455.4
27.5°	3375.4	2663.1	1934.4	1897.4	2006.0	2117.8	2192.5	2237.4	2253.9	2252.3	2249.2
30°	3378.5	2552.2	1832.9	1846.3	1954.1	2034.3	2069.8	2061.1	2039.9	2003.7	2006.8
32.5°	3368.3	2427.1	1747.9	1797.5	1888.0	1932.8	1934.4	1892.7	1836.0	1778.6	1762.8
35°	3371.4	2304.3	1673.1	1742.4	1807.7	1827.4	1809.3	1747.9	1670.8	1596.8	1581.0
37.5°	3406.1	2197.3	1608.6	1678.6	1718.8	1723.5	1697.5	1633.0	1576.3	1503.9	1497.6
40°	3488.7	2120.9	1547.2	1607.0	1629.8	1632.2	1595.2	1549.6	1554.3	1515.7	1514.9
42.5°	3637.4	2087.9	1492.9	1532.3	1546.4	1551.1	1522.8	1493.7	1534.6	1509.4	1500.8
45°	3829.5	2095.7	1447.3	1459.1	1485.0	1507.1	1489.8	1454.3	1470.1	1360.7	1324.5
47.5°	4051.4	2146.1	1411.1	1396.1	1441.0	1482.7	1455.9	1402.4	1346.5	1237.9	1217.5
50°	4311.1	2224.0	1378.0	1333.9	1393.0	1449.6	1422.9	1346.5	1262.3	1209.6	1202.5
52.5°	4581.8	2319.2	1345.0	1265.5	1332.4	1424.4	1411.1	1333.9	1230.1	1178.1	1168.7
55°	4888.7	2415.2	1303.2	1186.0	1267.0	1412.6	1405.5	1288.3	1205.7	1176.5	1169.5
57.5°	5270.4	2524.6	1248.2	1103.3	1205.7	1370.1	1348.1	1260.7	1180.5	1158.4	1156.1
60°	5767.8	2686.0	1168.7	1015.2	1130.9	1304.8	1300.1	1220.6	1140.3	1124.6	1121.4
62.5°	6513.8	2952.8	1059.3	927.1	1047.5	1193.9	1237.1	1166.3	1097.8	1097.1	1098.6
65°	7670.7	3354.1	940.4	849.9	963.3	1100.2	1163.9	1110.4	1054.6	1070.3	1072.7
67.5°	9011.7	3687.0	824.0	774.4	877.5	1011.3	1097.8	1054.6	997.1	1038.0	1038.8
70°	9457.9	3389.5	721.7	699.6	788.6	925.5	1026.2	993.2	934.9	975.9	971.9
72°	8801.6	2736.3	655.6	643.0	721.7	854.7	962.5	935.7	878.3	905.8	895.6
72.5°	8594.6	2608.8	639.0	628.8	703.6	836.6	946.0	921.6	864.1	887.7	878.3
75°	7666.8	2265.7	549.3	551.7	613.8	748.4	853.1	845.2	786.2	788.6	785.4
77.5°	5560.8	1661.3	462.7	478.5	522.6	657.9	759.4	754.7	690.2	678.4	676.0
80°	2580.5	847.6	377.0	384.0	429.7	550.1	647.7	641.4	589.4	574.5	565.8
82.5°	883.8	402.9	283.3	288.0	332.9	443.1	561.9	558.0	514.7	485.6	467.5
85°	315.6	200.7	198.3	193.6	237.7	348.6	489.5	468.3	404.5	344.7	343.1
87.5°	102.3	85.8	102.3	101.5	138.5	236.1	355.7	303.0	293.5	244.0	239.2
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)