

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: P318042

Luminaire Tested: **GAN-SA8B-730-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318042  
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-SA8B-730-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40930 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

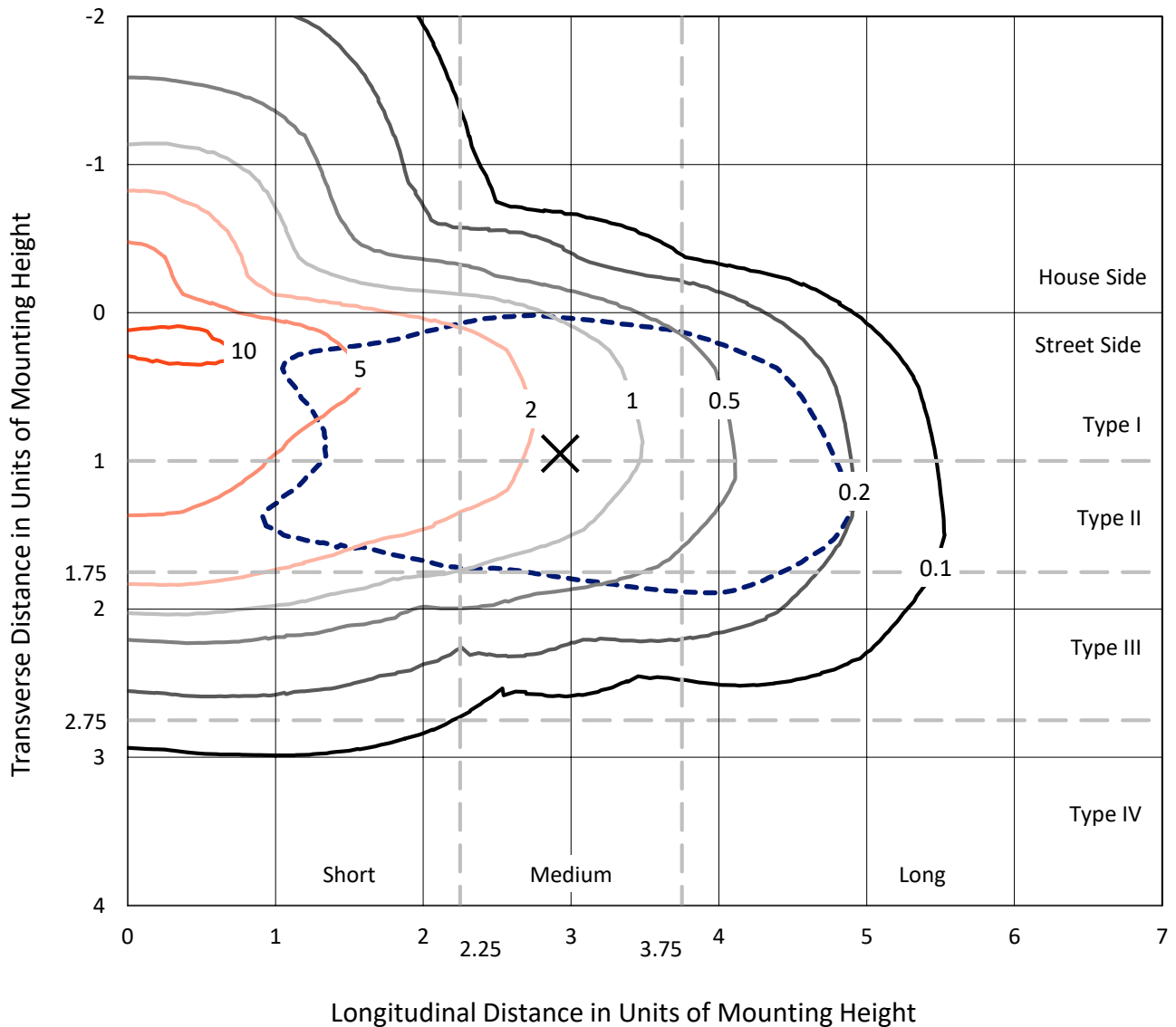
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

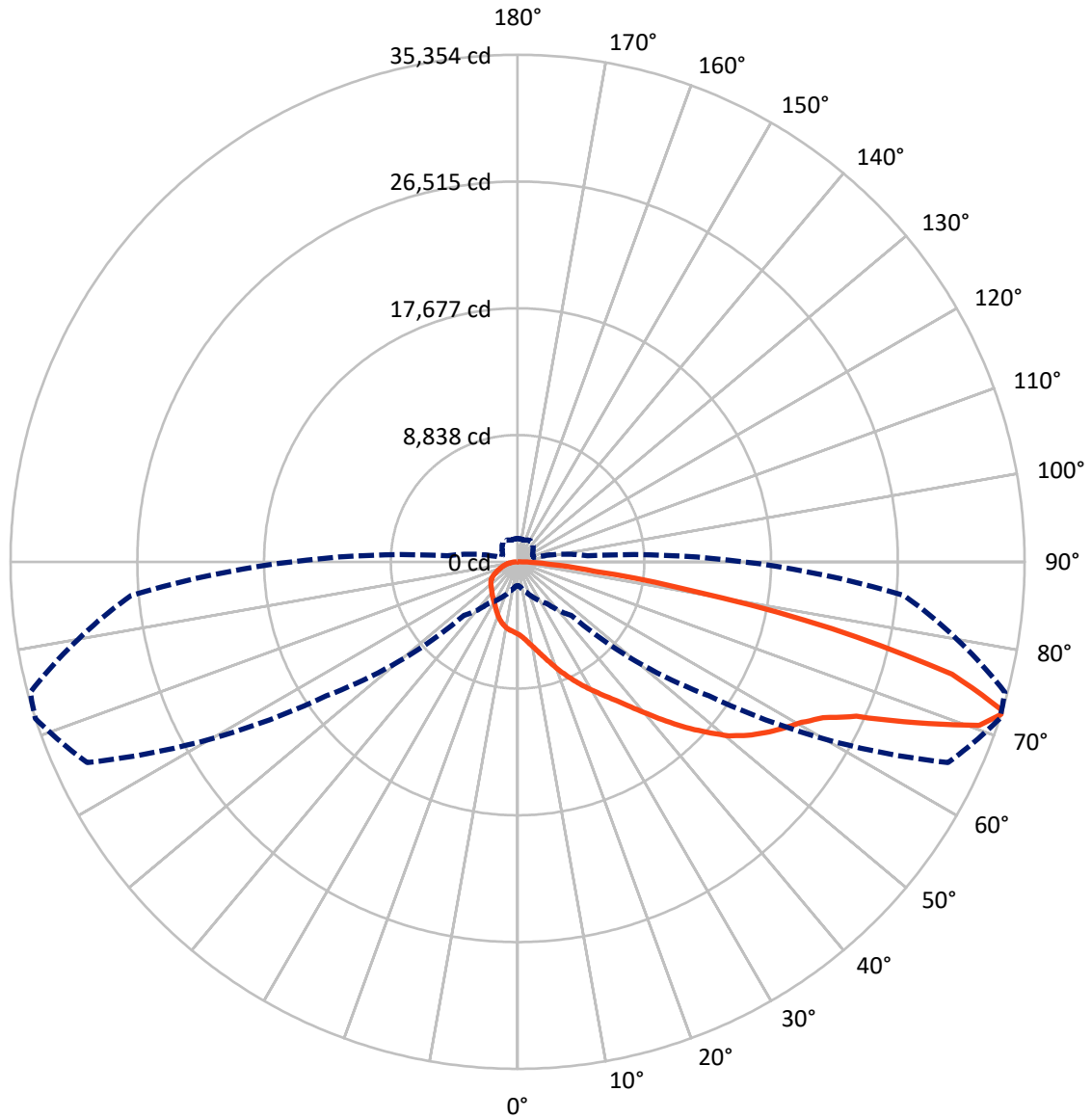
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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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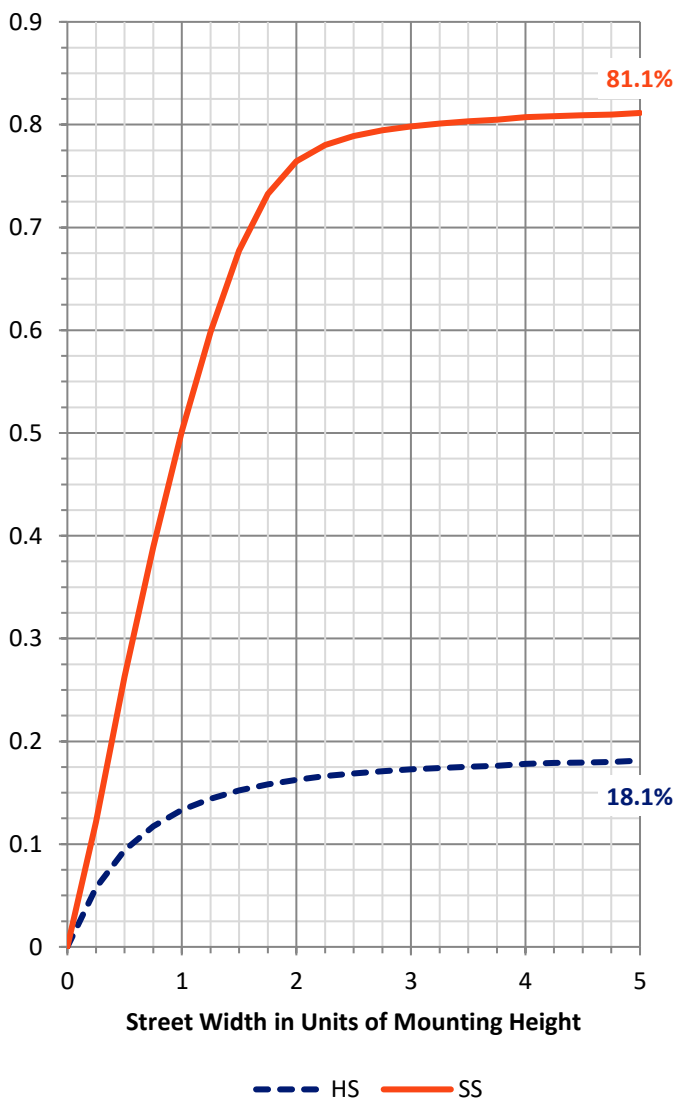
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7592.8	0.0	7592.8
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	33337.2	0.0	33337.2
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	40930.0	0.0	40930.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	504.6	1.2
10°-20°	1630.5	4.0
20°-30°	2857.2	7.0
30°-40°	4236.3	10.4
40°-50°	6195.9	15.1
50°-60°	8525.5	20.8
60°-70°	9491.5	23.2
70°-80°	6431.4	15.7
80°-90°	1057.1	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°	40930.0	100.0
0°-180°	40930.0	100.0

**Coefficient of Utilization**

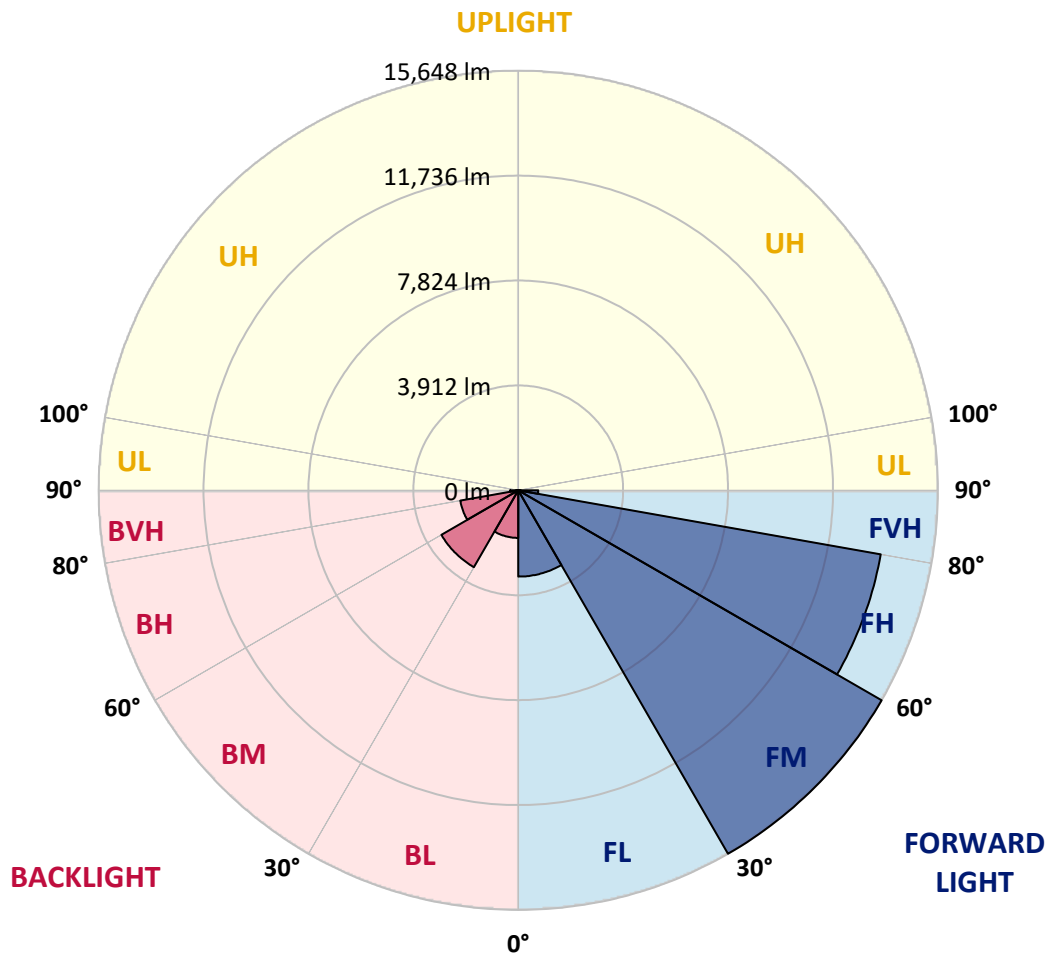


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3217.3	7.9			
FM (30°-60°)	15648.0	38.2			
FH (60°-80°)	13726.2	33.5			G5
FVH (80°-90°)	745.6	1.8			G4/750
BL (0°-30°)	1774.9	4.3	B3/2500		
BM (30°-60°)	3309.7	8.1	B3/5000		
BH (60°-80°)	2196.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	311.4	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5035.5	5035.5	5035.5	5035.5	5035.5	5035.5	5035.5	5035.5	5035.5	5035.5	5035.5
2.5°	5562.5	5554.1	5524.5	5524.5	5468.1	5420.2	5330.0	5269.4	5197.5	5172.2	5087.6
5°	6100.9	6103.7	6067.1	6041.7	5958.6	5857.1	5703.5	5563.9	5424.4	5368.1	5194.7
7.5°	6553.3	6547.6	6537.8	6516.6	6439.1	6334.8	6127.7	5920.5	5714.7	5630.2	5331.4
10°	6843.6	6856.3	6864.7	6874.6	6842.2	6767.5	6571.6	6319.3	6050.2	5934.6	5494.9
12.5°	6990.2	7012.7	7052.2	7119.8	7173.4	7164.9	7022.6	6754.8	6434.9	6289.7	5699.2
15°	7076.1	7105.7	7167.7	7288.9	7439.7	7525.7	7487.7	7245.3	6888.7	6709.7	5948.7
17.5°	7129.7	7153.6	7249.5	7411.6	7635.6	7863.9	7964.0	7761.1	7401.7	7197.3	6234.8
20°	7166.3	7184.7	7304.4	7494.7	7785.0	8148.6	8427.7	8376.9	7966.8	7701.9	6533.6
22.5°	7248.1	7263.6	7377.7	7569.4	7890.7	8360.0	8874.4	8950.5	8563.0	8262.8	6853.5
25°	7476.4	7476.4	7572.2	7706.1	8007.7	8543.2	9252.1	9588.9	9171.8	8822.3	7149.4
27.5°	7911.9	7907.6	7942.9	7989.4	8217.7	8729.3	9588.9	10152.7	9803.1	9421.2	7436.9
30°	8427.7	8455.8	8460.1	8437.5	8544.6	8961.8	9900.4	10747.4	10438.7	10027.2	7731.5
32.5°	9091.4	9109.8	9088.6	9013.9	8998.4	9291.6	10206.2	11370.3	11126.5	10660.0	8000.6
35°	9934.2	9899.0	9832.7	9680.5	9535.4	9732.7	10555.7	11993.2	11898.8	11425.3	8371.3
37.5°	10837.6	10839.0	10757.2	10412.0	10211.8	10296.4	11037.7	12699.3	12833.2	12335.7	8846.2
40°	11562.0	11600.0	11650.7	11197.0	10937.6	11054.6	11650.7	13518.1	13938.1	13415.2	9464.9
42.5°	12067.9	12111.6	12255.3	11970.7	11701.5	11918.5	12372.3	14391.9	15178.2	14661.0	10189.3
45°	12603.4	12627.4	12728.9	12606.3	12434.3	12923.4	13185.5	15296.6	16490.3	15988.6	10999.6
47.5°	13167.2	13192.5	13296.8	13215.1	13124.9	13862.0	14033.9	16149.3	17747.4	17447.2	11865.0
50°	13863.4	13880.3	13978.9	13830.9	13859.1	14569.4	14792.1	16931.4	19065.1	18757.9	12733.1
52.5°	14813.2	14817.5	14954.2	14820.3	14687.8	15088.1	15444.6	17668.5	20098.1	19953.0	13601.2
55°	15557.4	15602.4	16050.6	16022.4	15946.3	15558.8	15990.0	18370.3	21019.8	21088.9	14522.9
57.5°	15082.4	15258.6	16166.2	16806.0	17428.9	16729.9	16727.1	19161.0	21876.7	22203.6	15536.2
60°	13209.4	13449.0	14786.5	16205.6	18154.7	18767.8	18257.6	20126.3	22742.0	23308.5	16806.0
62.5°	9433.9	9828.5	11640.9	13907.1	17159.7	20117.9	21372.2	21658.2	23918.8	24588.2	18456.3
65°	4769.1	5067.9	6587.1	9316.9	13709.7	19235.6	24757.3	25012.4	25963.7	26558.4	20997.3
67.5°	2897.5	3010.3	3751.6	5182.0	8405.1	14983.8	25862.2	30603.1	29921.0	30236.7	24620.6
70°	2135.1	2218.3	2680.5	3441.5	4833.9	8792.7	22471.4	34592.9	34144.7	34109.5	27298.3
72°	1663.0	1723.6	2132.3	2780.6	3534.5	5275.0	16287.4	33120.1	35353.9	35176.3	27053.1
72.5°	1577.0	1630.6	2002.6	2617.1	3340.1	4781.8	14644.1	32126.6	35266.5	35186.2	26736.0
75°	1241.6	1279.7	1482.6	2023.8	2614.3	2712.9	8024.6	24896.8	31285.2	32586.0	24047.0
77.5°	1027.4	1033.0	1140.1	1472.7	2037.9	1918.1	3941.8	17273.9	22402.4	23832.8	17034.3
80°	837.1	844.2	894.9	1033.0	1541.8	1419.2	1871.6	9932.8	12542.8	12558.3	8100.7
82.5°	666.6	668.0	724.4	755.4	1107.7	1014.7	1072.5	4663.4	5480.8	5272.2	2911.6
85°	469.3	459.4	707.5	620.1	724.4	651.1	591.9	1846.2	2266.2	2167.5	911.8
87.5°	156.4	162.1	314.3	401.7	422.8	369.2	263.5	707.5	855.5	848.4	288.9
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°	5035.5	5035.5	5035.5	5035.5	5035.5	5035.5	5035.5	5035.5	5035.5	5035.5	5035.5
2.5°	5060.8	5015.7	4949.5	4876.2	4818.4	4759.2	4715.5	4693.0	4667.6	4646.5	4671.9
5°	5114.4	5029.8	4888.9	4750.8	4649.3	4559.1	4494.3	4460.5	4429.5	4408.3	4411.1
7.5°	5201.8	5065.1	4828.3	4626.8	4485.8	4388.6	4322.3	4299.8	4280.1	4274.4	4281.5
10°	5294.8	5093.2	4748.0	4480.2	4319.5	4239.2	4209.6	4225.1	4239.2	4251.9	4266.0
12.5°	5400.5	5118.6	4631.0	4308.3	4171.6	4140.5	4170.1	4237.8	4287.1	4316.7	4335.0
15°	5538.6	5141.2	4495.7	4136.3	4044.7	4079.9	4180.0	4297.0	4382.9	4437.9	4446.4
17.5°	5665.4	5139.7	4322.3	3963.0	3941.8	4044.7	4195.5	4360.4	4476.0	4553.5	4569.0
20°	5796.5	5101.7	4120.8	3793.9	3837.5	4006.7	4202.6	4401.3	4540.8	4631.0	4652.1
22.5°	5919.1	5035.5	3899.6	3640.2	3750.2	3955.9	4175.8	4377.3	4516.8	4590.1	4612.7
25°	6002.2	4919.9	3675.5	3510.6	3672.7	3893.9	4088.4	4250.5	4354.8	4391.4	4397.0
27.5°	6044.5	4769.1	3464.1	3397.8	3592.3	3792.4	3926.3	4006.7	4036.3	4033.4	4027.8
30°	6050.2	4570.4	3282.3	3306.2	3499.3	3643.1	3706.5	3691.0	3652.9	3588.1	3593.7
32.5°	6031.8	4346.3	3130.1	3218.9	3380.9	3461.3	3464.1	3389.4	3287.9	3185.0	3156.9
35°	6037.5	4126.5	2996.2	3120.2	3237.2	3272.4	3240.0	3130.1	2992.0	2859.5	2831.3
37.5°	6099.5	3934.8	2880.6	3006.1	3077.9	3086.4	3039.9	2924.3	2822.8	2693.2	2681.9
40°	6247.5	3798.1	2770.7	2877.8	2918.7	2922.9	2856.7	2774.9	2783.4	2714.3	2712.9
42.5°	6513.8	3738.9	2673.5	2743.9	2769.3	2777.7	2727.0	2674.9	2748.2	2703.1	2687.6
45°	6857.7	3753.0	2591.7	2612.9	2659.4	2698.8	2667.8	2604.4	2632.6	2436.7	2371.9
47.5°	7255.1	3843.2	2526.9	2500.1	2580.4	2655.1	2607.2	2511.4	2411.3	2216.8	2180.2
50°	7720.2	3982.7	2467.7	2388.8	2494.5	2595.9	2548.0	2411.3	2260.5	2166.1	2153.4
52.5°	8205.0	4153.2	2408.5	2266.2	2386.0	2550.8	2526.9	2388.8	2202.7	2109.7	2092.8
55°	8754.6	4325.2	2333.8	2123.8	2269.0	2529.7	2517.0	2307.0	2159.1	2106.9	2094.2
57.5°	9438.1	4521.1	2235.2	1975.8	2159.1	2453.6	2414.1	2257.7	2114.0	2074.5	2070.3
60°	10328.8	4810.0	2092.8	1818.0	2025.2	2336.6	2328.2	2185.8	2042.1	2013.9	2008.3
62.5°	11664.8	5287.7	1896.9	1660.2	1875.8	2137.9	2215.4	2088.6	1966.0	1964.6	1967.4
65°	13736.5	6006.5	1684.1	1522.1	1725.0	1970.2	2084.4	1988.5	1888.5	1916.7	1920.9
67.5°	16138.0	6602.6	1475.5	1386.8	1571.4	1811.0	1966.0	1888.5	1785.6	1858.9	1860.3
70°	16937.1	6069.9	1292.3	1252.9	1412.1	1657.3	1837.7	1778.5	1674.3	1747.5	1740.5
72°	15761.7	4900.2	1174.0	1151.4	1292.3	1530.5	1723.6	1675.7	1572.8	1622.1	1603.8
72.5°	15391.1	4671.9	1144.4	1126.0	1259.9	1498.1	1694.0	1650.3	1547.4	1589.7	1572.8
75°	13729.5	4057.4	983.7	987.9	1099.3	1340.3	1527.7	1513.6	1407.9	1412.1	1406.5
77.5°	9958.2	2975.0	828.7	856.9	935.8	1178.2	1360.0	1351.5	1236.0	1214.8	1210.6
80°	4621.1	1517.8	675.1	687.7	769.5	985.1	1159.9	1148.6	1055.6	1028.8	1013.3
82.5°	1582.7	721.6	507.4	515.8	596.1	793.4	1006.2	999.2	921.7	869.5	837.1
85°	565.1	359.4	355.1	346.7	425.6	624.3	876.6	838.5	724.4	617.3	614.5
87.5°	183.2	153.6	183.2	181.8	248.0	422.8	637.0	542.6	525.7	436.9	428.4
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)