

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: P318081

Luminaire Tested: **GAN-SA7B-740-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318081  
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-SA7B-740-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39667 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

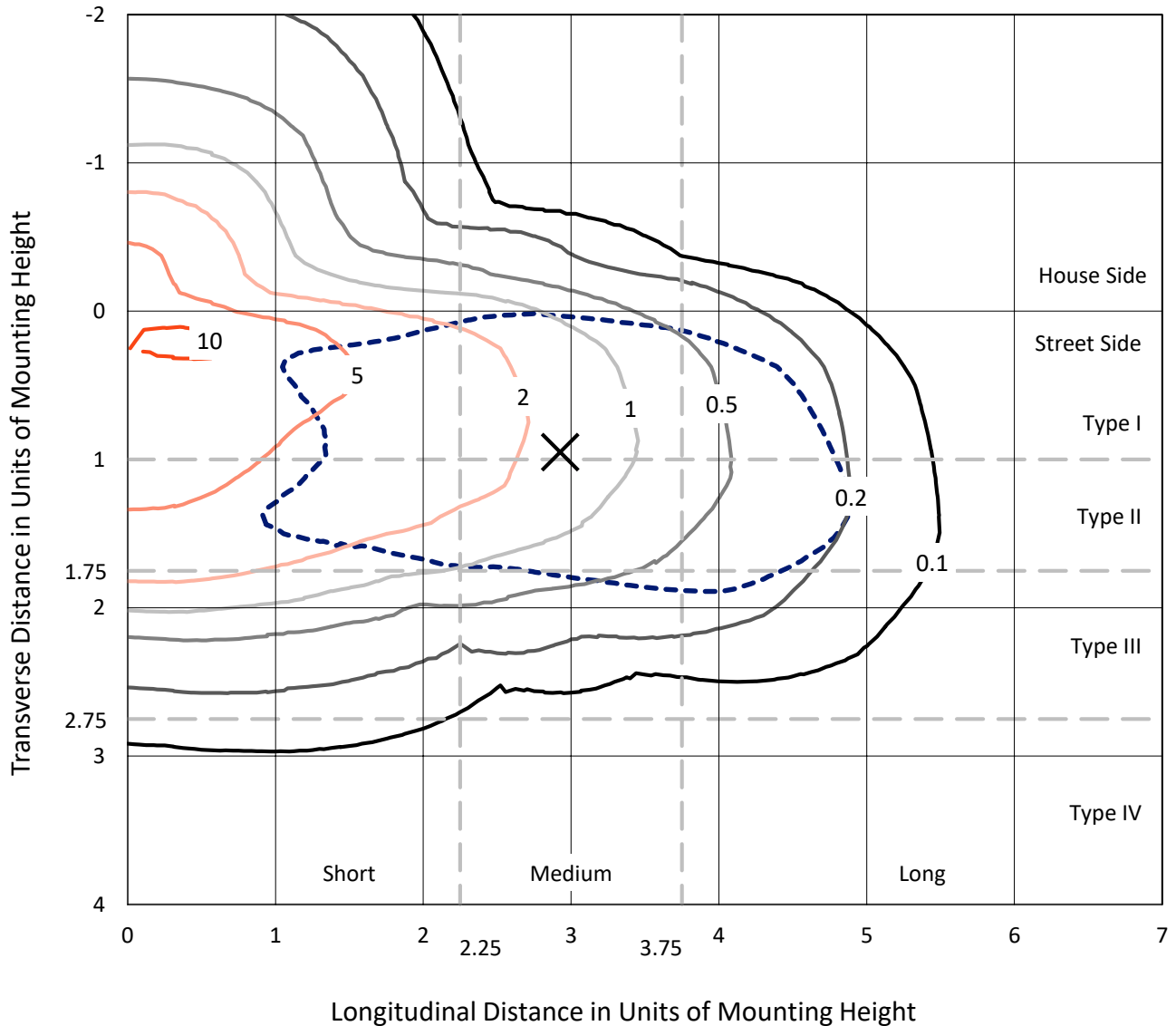
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

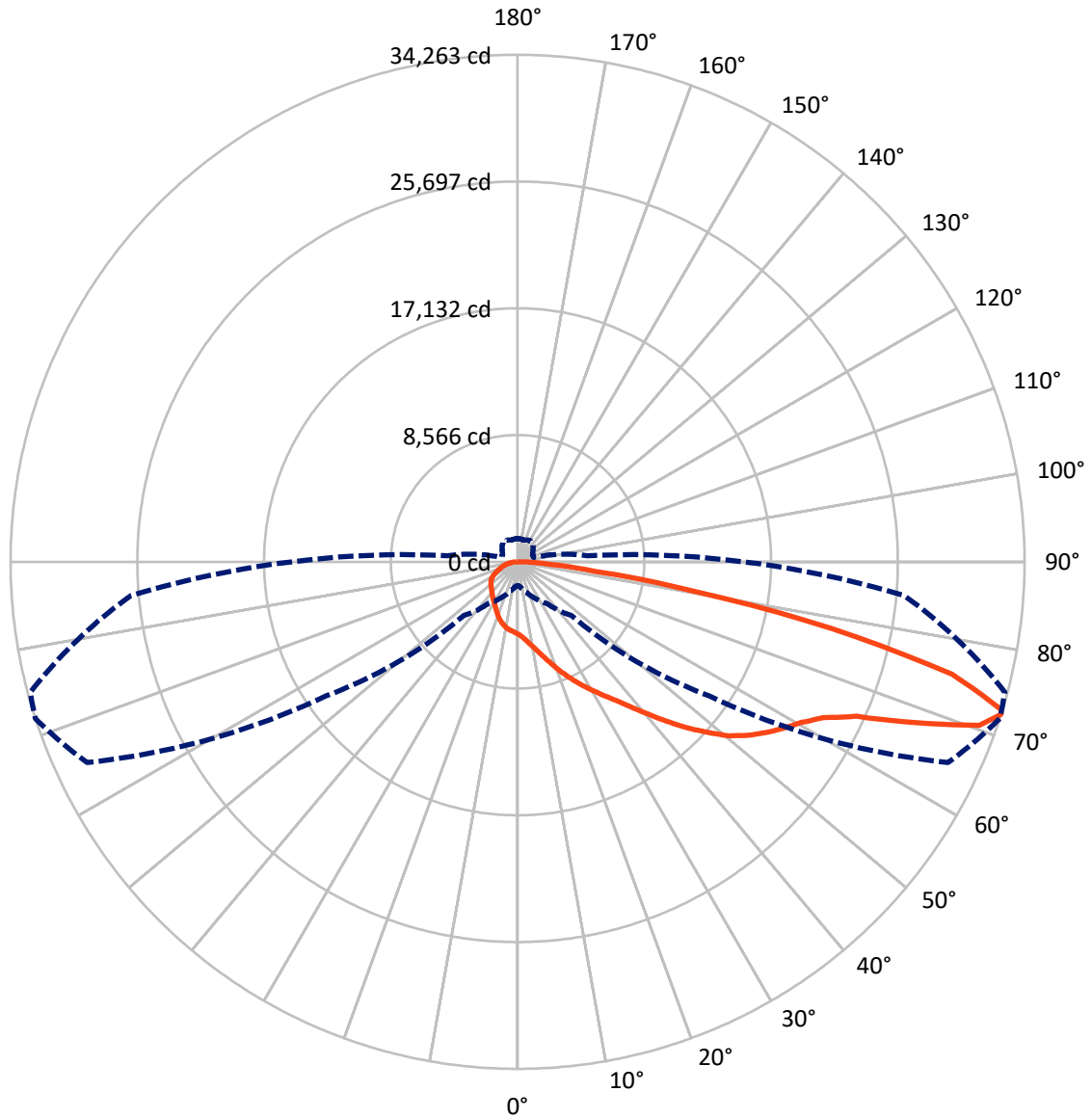
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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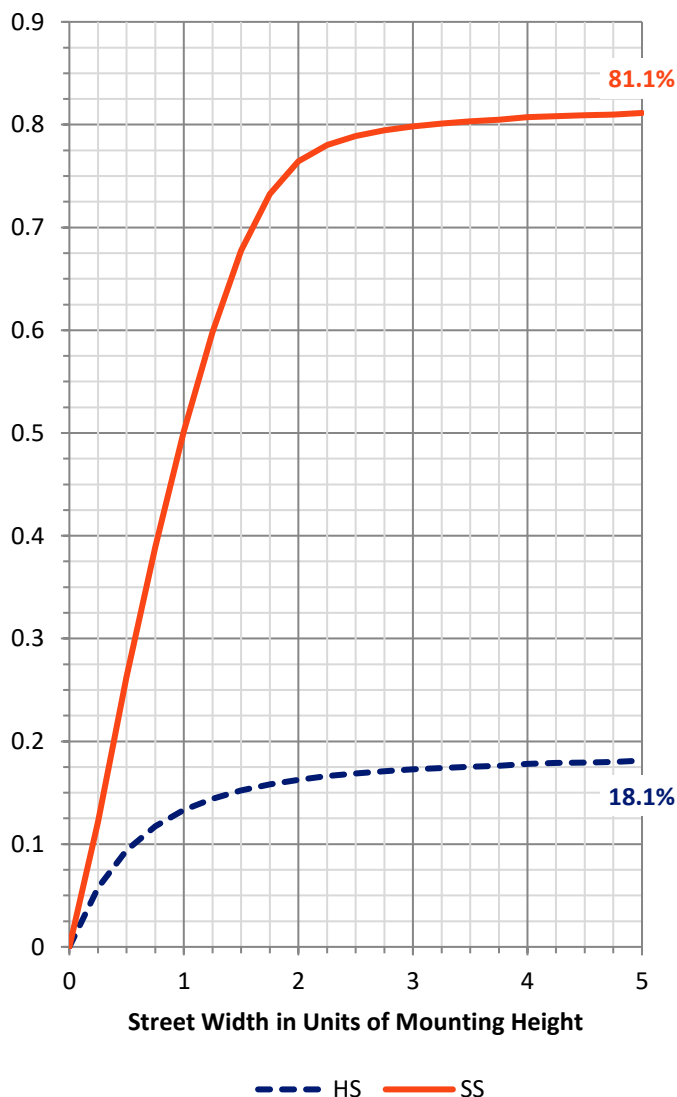
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7358.5	0.0	7358.5
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	32308.5	0.0	32308.5
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	39667.0	0.0	39667.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	489.0	1.2
10°-20°	1580.2	4.0
20°-30°	2769.0	7.0
30°-40°	4105.6	10.4
40°-50°	6004.7	15.1
50°-60°	8262.5	20.8
60°-70°	9198.6	23.2
70°-80°	6232.9	15.7
80°-90°	1024.4	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°	39667.0	100.0
0°-180°	39667.0	100.0

**Coefficient of Utilization**

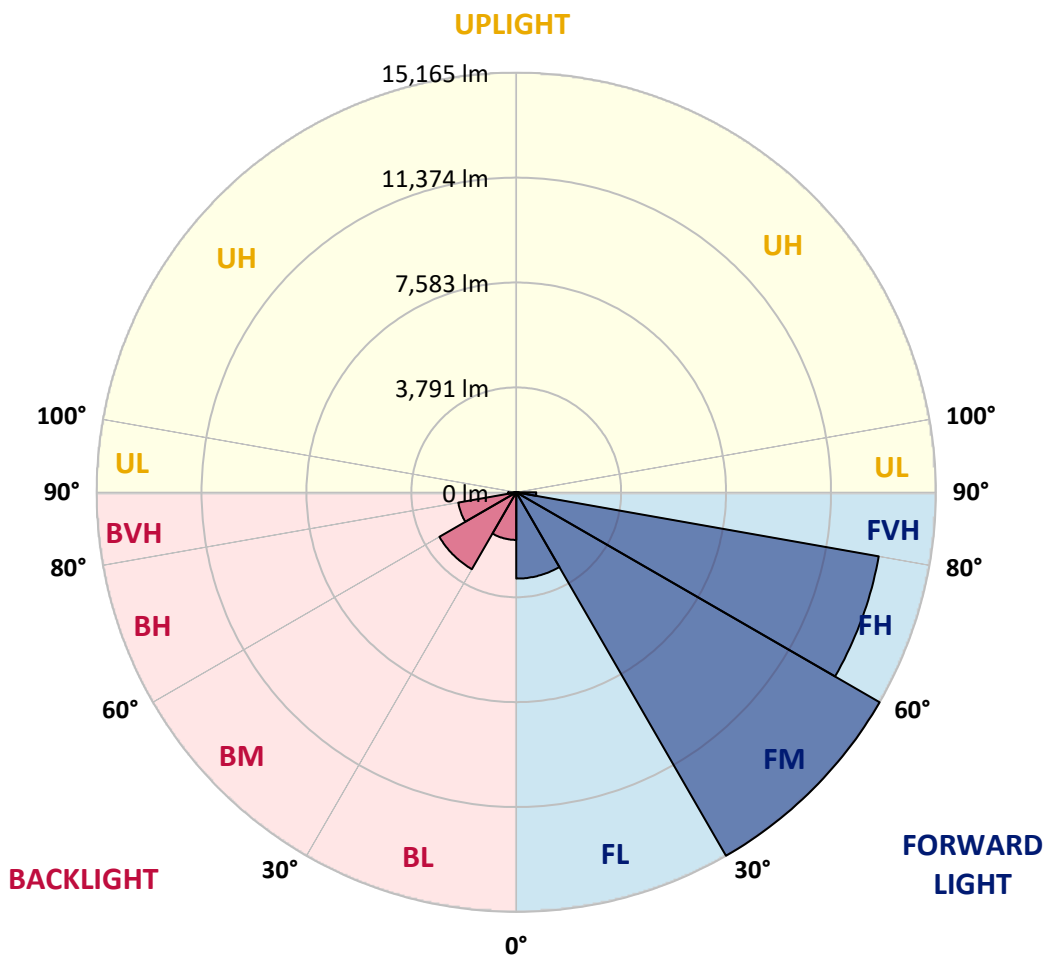


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3118.1	7.9			
FM (30°-60°)	15165.2	38.2			
FH (60°-80°)	13302.6	33.5			G5
FVH (80°-90°)	722.6	1.8			G4/750
BL (0°-30°)	1720.1	4.3	B3/2500		
BM (30°-60°)	3207.6	8.1	B3/5000		
BH (60°-80°)	2128.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	301.8	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°	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1
2.5°	5390.9	5382.7	5354.0	5354.0	5299.4	5252.9	5165.5	5106.8	5037.1	5012.6	4930.6
5°	5912.6	5915.4	5879.9	5855.3	5774.7	5676.3	5527.5	5392.3	5257.0	5202.4	5034.4
7.5°	6351.1	6345.6	6336.0	6315.6	6240.4	6139.4	5938.6	5737.8	5538.4	5456.5	5166.9
10°	6632.4	6644.7	6652.9	6662.5	6631.1	6558.7	6368.8	6124.3	5863.5	5751.5	5325.3
12.5°	6774.5	6796.3	6834.6	6900.1	6952.0	6943.8	6805.9	6546.4	6236.3	6095.7	5523.4
15°	6857.8	6886.5	6946.6	7064.0	7210.2	7293.5	7256.6	7021.7	6676.1	6502.7	5765.1
17.5°	6909.7	6932.9	7025.8	7182.8	7400.0	7621.3	7718.3	7521.6	7173.3	6975.2	6042.4
20°	6945.2	6963.0	7079.0	7263.4	7544.8	7897.2	8167.6	8118.4	7721.0	7464.2	6331.9
22.5°	7024.4	7039.4	7150.1	7335.8	7647.2	8102.0	8600.6	8674.3	8298.7	8007.8	6642.0
25°	7245.7	7245.7	7338.6	7468.3	7760.6	8279.6	8966.6	9293.0	8888.8	8550.0	6928.8
27.5°	7667.7	7663.6	7697.8	7742.8	7964.1	8459.9	9293.0	9839.4	9500.6	9130.5	7207.4
30°	8167.6	8194.9	8199.0	8177.2	8281.0	8685.3	9594.9	10415.7	10116.6	9717.8	7492.9
32.5°	8810.9	8828.7	8808.2	8735.8	8720.8	9004.9	9891.3	11019.4	10783.2	10331.1	7753.8
35°	9627.7	9593.5	9529.3	9381.8	9241.1	9432.4	10230.0	11623.1	11531.6	11072.7	8113.0
37.5°	10503.2	10504.5	10425.3	10090.7	9896.7	9978.7	10697.1	12307.4	12437.2	11955.0	8573.3
40°	11205.2	11242.1	11291.2	10851.4	10600.1	10713.5	11291.2	13100.9	13508.0	13001.2	9172.8
42.5°	11695.5	11737.9	11877.2	11601.3	11340.4	11550.7	11990.5	13947.8	14709.9	14208.6	9874.9
45°	12214.5	12237.7	12336.1	12217.3	12050.6	12524.6	12778.6	14824.6	15981.5	15495.2	10660.2
47.5°	12760.9	12785.4	12886.5	12807.3	12719.9	13434.2	13600.8	15650.9	17199.8	16908.9	11498.8
50°	13435.6	13452.0	13547.6	13404.2	13431.5	14119.9	14335.6	16409.0	18476.8	18179.1	12340.2
52.5°	14356.1	14360.2	14492.7	14363.0	14234.6	14622.5	14968.0	17123.3	19478.0	19337.3	13181.5
55°	15077.3	15121.0	15555.3	15528.0	15454.3	15078.7	15496.6	17803.5	20371.2	20438.1	14074.8
57.5°	14617.0	14787.7	15667.3	16287.4	16891.1	16213.7	16210.9	18569.7	21201.6	21518.5	15056.8
60°	12801.8	13034.0	14330.2	15705.6	17594.5	18188.6	17694.2	19505.3	22040.2	22589.3	16287.4
62.5°	9142.8	9525.2	11281.7	13477.9	16630.2	19497.1	20712.7	20989.9	23180.7	23829.5	17886.8
65°	4621.9	4911.5	6383.8	9029.4	13286.7	18642.1	23993.4	24240.6	25162.5	25738.9	20349.4
67.5°	2808.1	2917.4	3635.8	5022.1	8145.8	14521.4	25064.2	29658.8	28997.7	29303.7	23860.9
70°	2069.2	2149.8	2597.8	3335.3	4684.8	8521.4	21778.0	33525.4	33091.1	33056.9	26455.9
72°	1611.7	1670.4	2066.5	2694.8	3425.5	5112.3	15784.8	32098.1	34263.0	34090.9	26218.3
72.5°	1528.4	1580.3	1940.8	2536.3	3237.0	4634.2	14192.2	31135.2	34178.3	34100.4	25911.0
75°	1203.3	1240.2	1436.8	1961.3	2533.6	2629.2	7777.0	24128.6	30319.8	31580.5	23305.0
77.5°	995.7	1001.1	1104.9	1427.3	1975.0	1858.9	3820.2	16740.9	21711.1	23097.4	16508.7
80°	811.3	818.1	867.3	1001.1	1494.2	1375.4	1813.8	9626.3	12155.8	12170.8	7850.7
82.5°	646.0	647.4	702.0	732.1	1073.5	983.4	1039.4	4519.5	5311.7	5109.5	2821.8
85°	454.8	445.3	685.6	601.0	702.0	631.0	573.6	1789.2	2196.2	2100.6	883.7
87.5°	151.6	157.1	304.6	389.3	409.7	357.8	255.4	685.6	829.1	822.2	280.0
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°	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1
2.5°	4904.7	4861.0	4796.8	4725.7	4669.7	4612.4	4570.0	4548.2	4523.6	4503.1	4527.7
5°	4956.6	4874.6	4738.0	4604.2	4505.8	4418.4	4355.6	4322.8	4292.8	4272.3	4275.0
7.5°	5041.2	4908.8	4679.3	4484.0	4347.4	4253.2	4189.0	4167.1	4148.0	4142.5	4149.4
10°	5131.4	4936.1	4601.4	4341.9	4186.2	4108.4	4079.7	4094.7	4108.4	4120.7	4134.3
12.5°	5233.8	4960.7	4488.1	4175.3	4042.8	4012.8	4041.5	4107.0	4154.8	4183.5	4201.3
15°	5367.7	4982.5	4357.0	4008.7	3919.9	3954.0	4051.0	4164.4	4247.7	4301.0	4309.2
17.5°	5490.6	4981.1	4189.0	3840.7	3820.2	3919.9	4066.0	4225.8	4337.8	4413.0	4428.0
20°	5617.6	4944.3	3993.7	3676.8	3719.1	3883.0	4072.9	4265.5	4400.7	4488.1	4508.6
22.5°	5736.4	4880.1	3779.2	3527.9	3634.4	3833.9	4046.9	4242.2	4377.5	4448.5	4470.3
25°	5817.0	4768.1	3562.1	3402.3	3559.3	3773.8	3962.2	4119.3	4220.4	4255.9	4261.4
27.5°	5858.0	4621.9	3357.2	3293.0	3481.5	3675.4	3805.2	3883.0	3911.7	3909.0	3903.5
30°	5863.5	4429.4	3181.0	3204.2	3391.3	3530.6	3592.1	3577.1	3540.2	3477.4	3482.8
32.5°	5845.7	4212.2	3033.5	3119.5	3276.6	3354.5	3357.2	3284.8	3186.5	3086.8	3059.4
35°	5851.2	3999.1	2903.7	3023.9	3137.3	3171.4	3140.0	3033.5	2899.6	2771.2	2743.9
37.5°	5911.3	3813.4	2791.7	2913.3	2983.0	2991.1	2946.1	2834.1	2735.7	2610.1	2599.2
40°	6054.7	3680.9	2685.2	2789.0	2828.6	2832.7	2768.5	2689.3	2697.5	2630.6	2629.2
42.5°	6312.8	3623.5	2591.0	2659.3	2683.8	2692.0	2642.9	2592.3	2663.3	2619.6	2604.6
45°	6646.1	3637.2	2511.7	2532.2	2577.3	2615.5	2585.5	2524.0	2551.4	2361.5	2298.7
47.5°	7031.2	3724.6	2448.9	2423.0	2500.8	2573.2	2526.8	2433.9	2336.9	2148.4	2112.9
50°	7482.0	3859.8	2391.6	2315.1	2417.5	2515.8	2469.4	2336.9	2190.8	2099.3	2087.0
52.5°	7951.8	4025.1	2334.2	2196.2	2312.3	2472.1	2448.9	2315.1	2134.8	2044.6	2028.2
55°	8484.5	4191.7	2261.8	2058.3	2199.0	2451.6	2439.4	2235.8	2092.4	2041.9	2029.6
57.5°	9146.9	4381.6	2166.2	1914.9	2092.4	2377.9	2339.7	2188.0	2048.7	2010.5	2006.4
60°	10010.1	4661.5	2028.2	1761.9	1962.7	2264.5	2256.3	2118.4	1979.1	1951.8	1946.3
62.5°	11304.9	5124.6	1838.4	1608.9	1817.9	2071.9	2147.1	2024.1	1905.3	1904.0	1906.7
65°	13312.7	5821.1	1632.2	1475.1	1671.8	1909.4	2020.0	1927.2	1830.2	1857.5	1861.6
67.5°	15640.0	6398.9	1430.0	1344.0	1522.9	1755.1	1905.3	1830.2	1730.5	1801.5	1802.9
70°	16414.4	5882.6	1252.5	1214.2	1368.6	1606.2	1781.0	1723.7	1622.6	1693.6	1686.8
72°	15275.3	4749.0	1137.7	1115.9	1252.5	1483.3	1670.4	1624.0	1524.3	1572.1	1554.3
72.5°	14916.1	4527.7	1109.0	1091.3	1221.0	1451.9	1641.7	1599.4	1499.7	1540.6	1524.3
75°	13305.8	3932.2	953.3	957.4	1065.3	1298.9	1480.5	1466.9	1364.5	1368.6	1363.1
77.5°	9650.9	2883.2	803.1	830.4	906.9	1141.8	1318.0	1309.8	1197.8	1177.3	1173.2
80°	4478.5	1471.0	654.2	666.5	745.7	954.7	1124.1	1113.1	1023.0	997.0	982.0
82.5°	1533.8	699.3	491.7	499.9	577.7	769.0	975.2	968.4	893.2	842.7	811.3
85°	547.7	348.3	344.2	336.0	412.5	605.1	849.5	812.7	702.0	598.2	595.5
87.5°	177.6	148.9	177.6	176.2	240.4	409.7	617.4	525.8	509.5	423.4	415.2
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)