

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: P318121

Luminaire Tested: **GAN-SA7B-750-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318121  
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-750-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39666 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

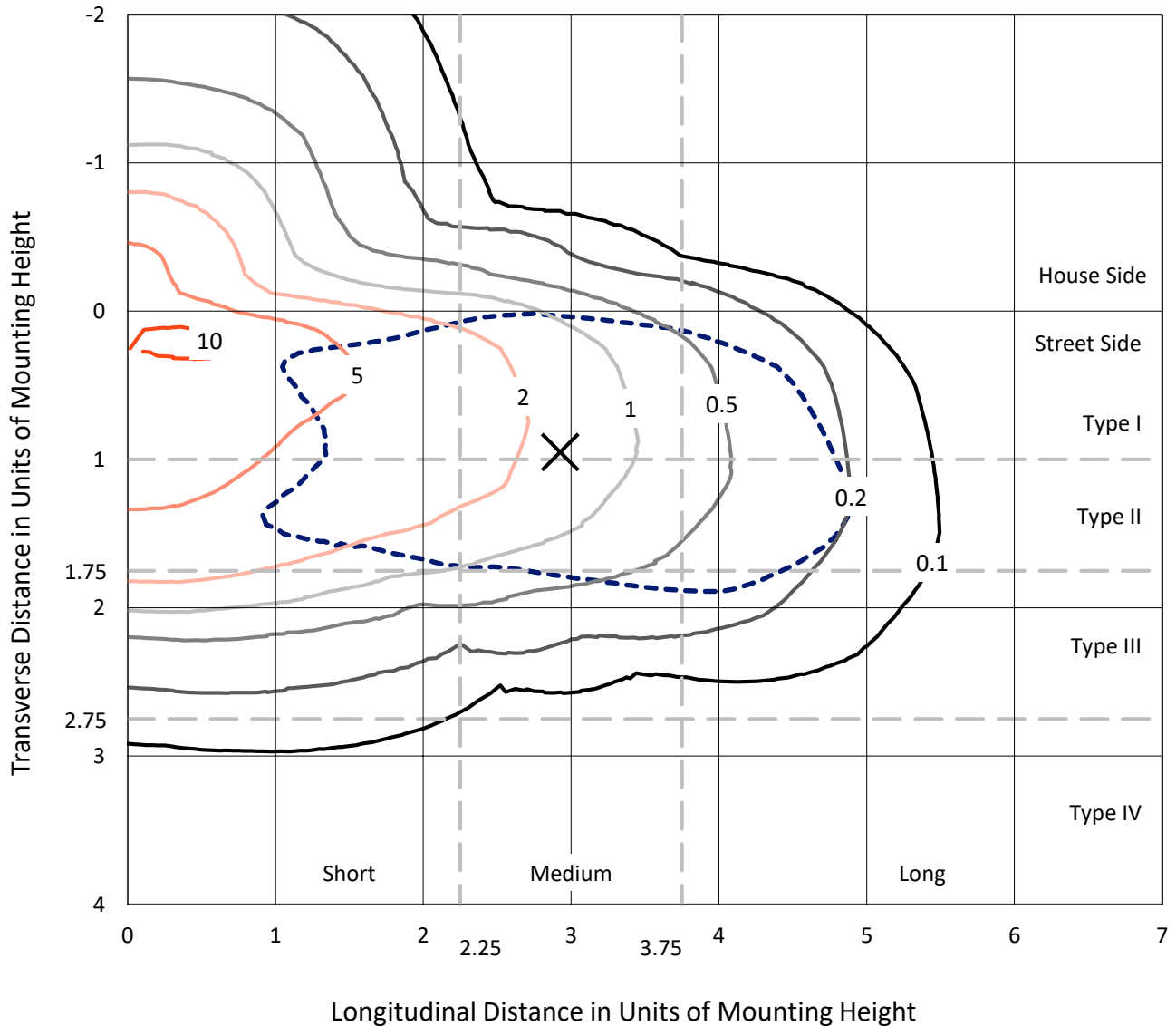
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

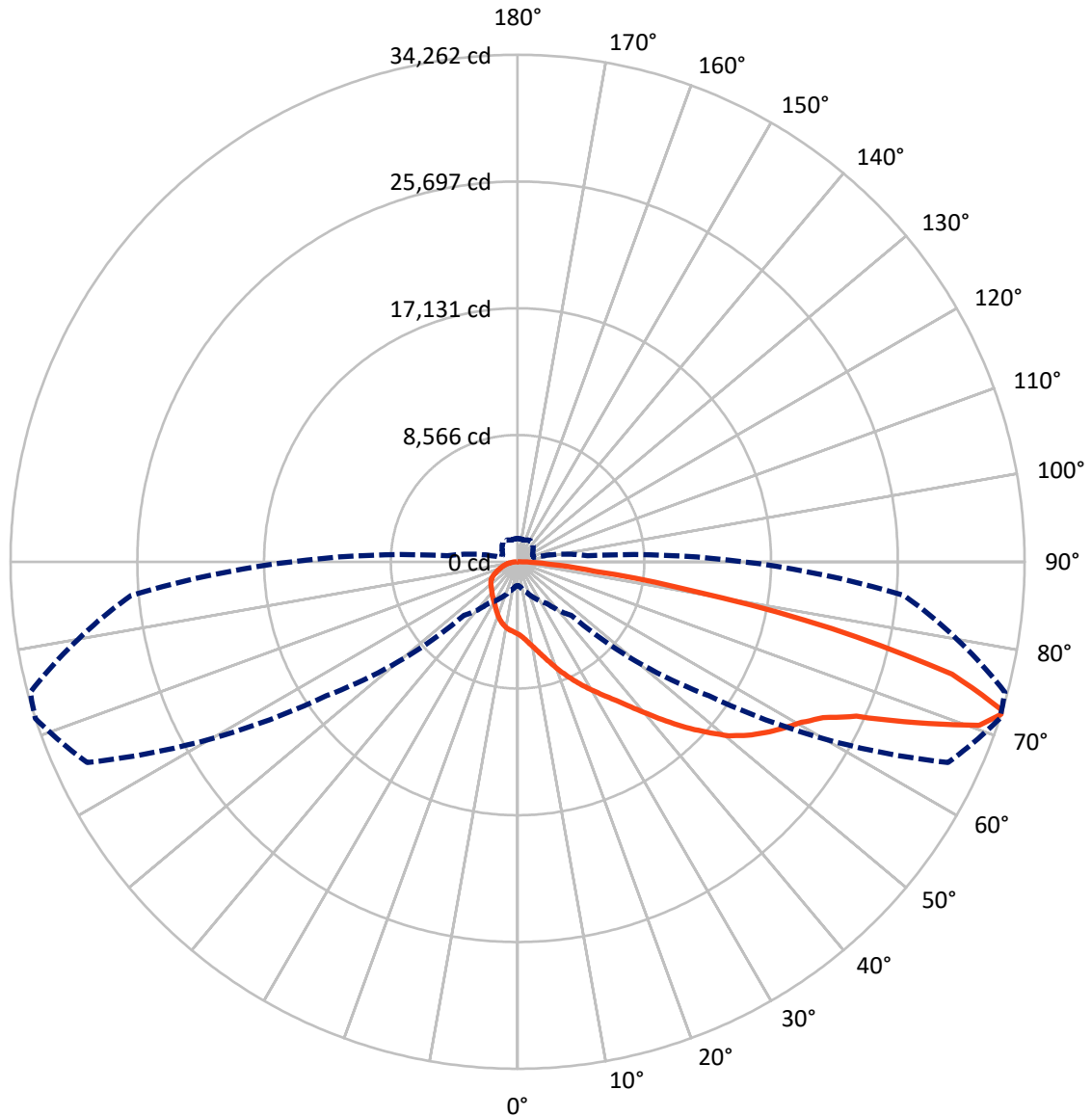
✕ Max cd  
 - - - 1/2 Max cd



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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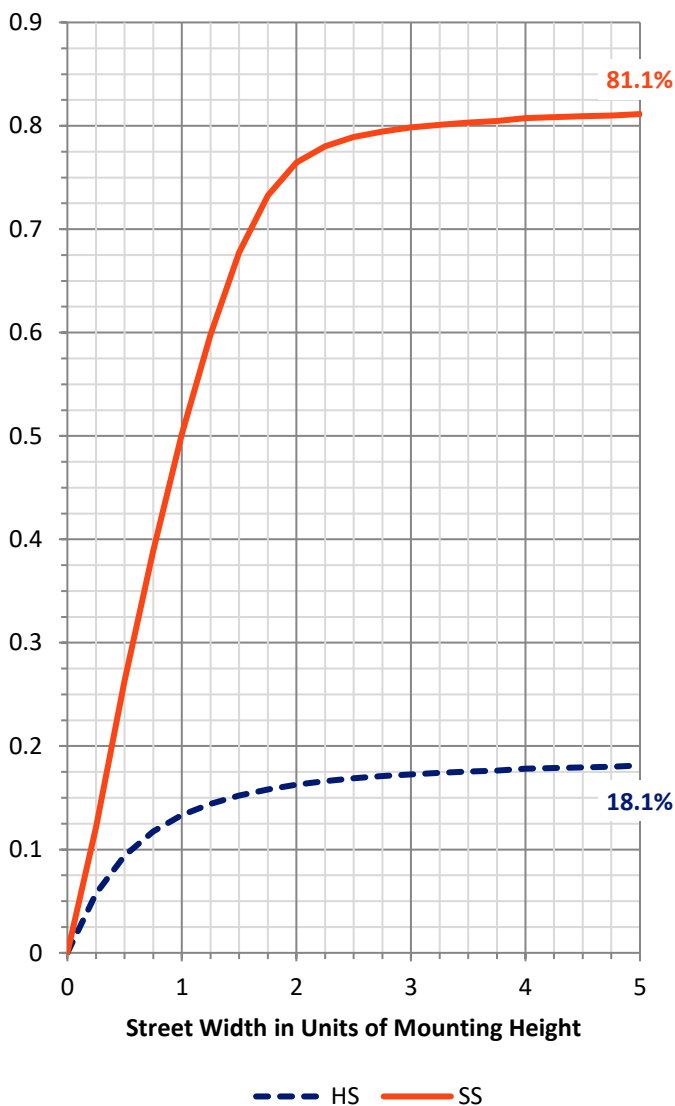
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7358.3	0.0	7358.3
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	32307.7	0.0	32307.7
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	39666.0	0.0	39666.0
	% 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°	2768.9	7.0
30°-40°	4105.5	10.4
40°-50°	6004.6	15.1
50°-60°	8262.3	20.8
60°-70°	9198.4	23.2
70°-80°	6232.8	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°	39666.0	100.0
0°-180°	39666.0	100.0

**Coefficient of Utilization**

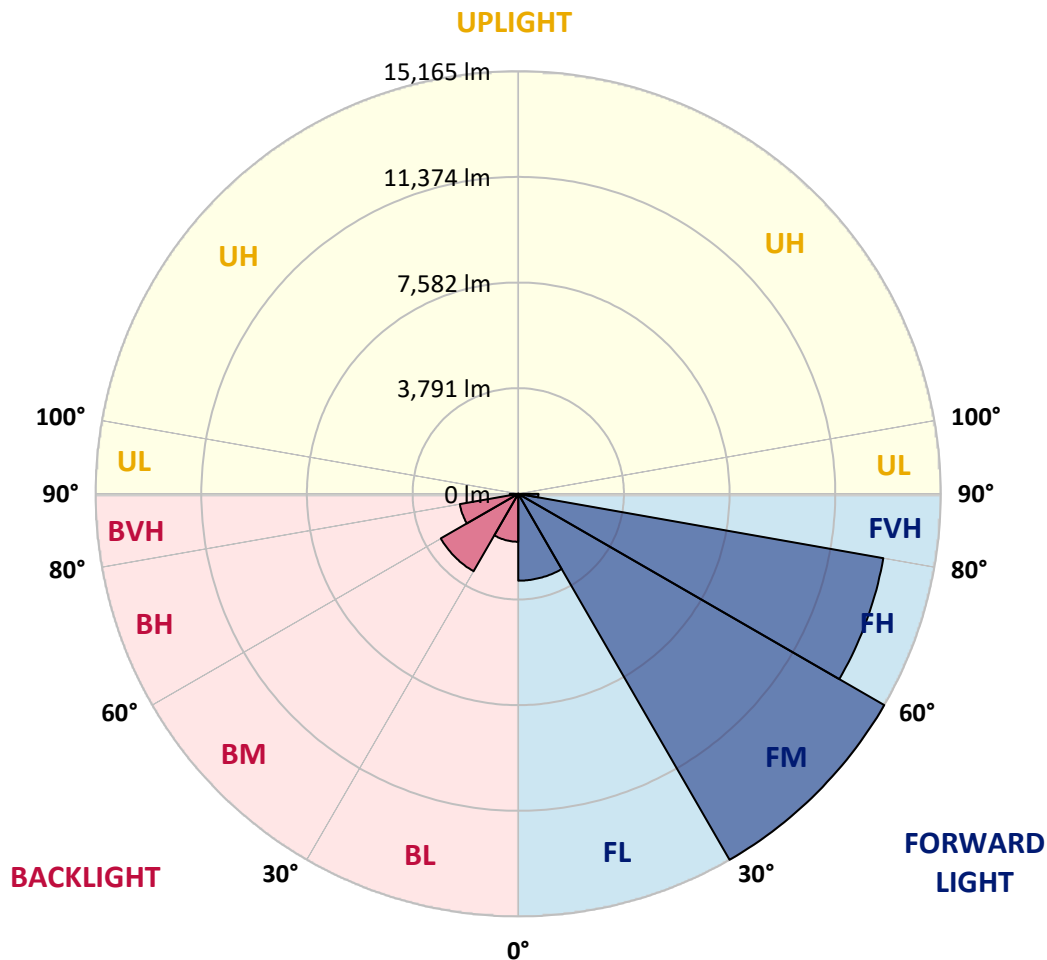


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3118.0	7.9			
FM (30°-60°)	15164.8	38.2			
FH (60°-80°)	13302.3	33.5			G5
FVH (80°-90°)	722.6	1.8			G4/750
BL (0°-30°)	1720.1	4.3	B3/2500		
BM (30°-60°)	3207.5	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°	4880.0	4880.0	4880.0	4880.0	4880.0	4880.0	4880.0	4880.0	4880.0	4880.0	4880.0
2.5°	5390.8	5382.6	5353.9	5353.9	5299.2	5252.8	5165.4	5106.7	5037.0	5012.4	4930.5
5°	5912.5	5915.2	5879.7	5855.1	5774.5	5676.2	5527.3	5392.1	5256.9	5202.3	5034.3
7.5°	6350.9	6345.4	6335.9	6315.4	6240.3	6139.2	5938.4	5737.7	5538.3	5456.3	5166.8
10°	6632.3	6644.5	6652.7	6662.3	6630.9	6558.5	6368.7	6124.2	5863.3	5751.3	5325.2
12.5°	6774.3	6796.2	6834.4	6900.0	6951.8	6943.7	6805.7	6546.2	6236.2	6095.5	5523.2
15°	6857.6	6886.3	6946.4	7063.8	7210.0	7293.3	7256.4	7021.5	6676.0	6502.5	5765.0
17.5°	6909.5	6932.7	7025.6	7182.7	7399.8	7621.1	7718.1	7521.4	7173.1	6975.1	6042.2
20°	6945.0	6962.8	7078.9	7263.2	7544.6	7897.0	8167.4	8118.2	7720.8	7464.0	6331.8
22.5°	7024.2	7039.3	7149.9	7335.6	7647.0	8101.8	8600.4	8674.1	8298.5	8007.6	6641.8
25°	7245.5	7245.5	7338.4	7468.1	7760.4	8279.4	8966.4	9292.8	8888.5	8549.8	6928.6
27.5°	7667.5	7663.4	7697.6	7742.6	7963.9	8459.7	9292.8	9839.1	9500.4	9130.3	7207.3
30°	8167.4	8194.7	8198.8	8177.0	8280.8	8685.0	9594.6	10415.5	10116.4	9717.6	7492.7
32.5°	8810.7	8828.4	8808.0	8735.6	8720.5	9004.6	9891.0	11019.2	10782.9	10330.8	7753.6
35°	9627.4	9593.3	9529.1	9381.6	9240.9	9432.1	10229.7	11622.8	11531.3	11072.4	8112.8
37.5°	10502.9	10504.3	10425.0	10090.4	9896.5	9978.4	10696.8	12307.1	12436.8	11954.7	8573.0
40°	11204.9	11241.8	11291.0	10851.2	10599.9	10713.2	11291.0	13100.6	13507.6	13000.9	9172.6
42.5°	11695.2	11737.6	11876.9	11601.0	11340.1	11550.5	11990.2	13947.4	14709.5	14208.3	9874.6
45°	12214.2	12237.4	12335.8	12217.0	12050.3	12524.3	12778.3	14824.2	15981.1	15494.8	10660.0
47.5°	12760.5	12785.1	12886.2	12807.0	12719.6	13433.9	13600.5	15650.5	17199.3	16908.4	11498.6
50°	13435.2	13451.6	13547.2	13403.8	13431.1	14119.5	14335.3	16408.6	18476.4	18178.6	12339.9
52.5°	14355.8	14359.9	14492.4	14362.6	14234.2	14622.1	14967.6	17122.9	19477.5	19336.8	13181.2
55°	15076.9	15120.6	15554.9	15527.6	15453.9	15078.3	15496.2	17803.0	20370.7	20437.6	14074.4
57.5°	14616.6	14787.4	15666.9	16287.0	16890.7	16213.2	16210.5	18569.2	21201.1	21518.0	15056.4
60°	12801.5	13033.7	14329.8	15705.2	17594.1	18188.2	17693.8	19504.8	22039.7	22588.7	16287.0
62.5°	9142.6	9525.0	11281.4	13477.6	16629.8	19496.6	20712.1	20989.4	23180.1	23828.9	17886.3
65°	4621.8	4911.4	6383.7	9029.2	13286.4	18641.6	23992.8	24240.0	25161.9	25738.2	20348.8
67.5°	2808.1	2917.3	3635.7	5022.0	8145.5	14521.0	25063.5	29658.0	28997.0	29302.9	23860.3
70°	2069.2	2149.7	2597.7	3335.2	4684.6	8521.1	21777.5	33524.6	33090.3	33056.1	26455.3
72°	1611.6	1670.4	2066.4	2694.7	3425.4	5112.1	15784.4	32097.3	34262.1	34090.0	26217.6
72.5°	1528.3	1580.2	1940.8	2536.3	3236.9	4634.1	14191.9	31134.5	34177.4	34099.6	25910.3
75°	1203.3	1240.1	1436.8	1961.3	2533.5	2629.1	7776.8	24128.0	30319.1	31579.7	23304.4
77.5°	995.7	1001.1	1104.9	1427.2	1974.9	1858.8	3820.1	16740.4	21710.5	23096.8	16508.3
80°	811.3	818.1	867.3	1001.1	1494.2	1375.3	1813.8	9626.1	12155.5	12170.5	7850.5
82.5°	646.0	647.4	702.0	732.1	1073.5	983.4	1039.4	4519.4	5311.5	5109.4	2821.7
85°	454.8	445.2	685.6	600.9	702.0	631.0	573.6	1789.2	2196.2	2100.6	883.7
87.5°	151.6	157.1	304.6	389.2	409.7	357.8	255.4	685.6	829.0	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°	4880.0	4880.0	4880.0	4880.0	4880.0	4880.0	4880.0	4880.0	4880.0	4880.0	4880.0
2.5°	4904.5	4860.8	4796.6	4725.6	4669.6	4612.3	4569.9	4548.1	4523.5	4503.0	4527.6
5°	4956.4	4874.5	4737.9	4604.1	4505.7	4418.3	4355.5	4322.7	4292.7	4272.2	4274.9
7.5°	5041.1	4908.6	4679.2	4483.9	4347.3	4253.1	4188.9	4167.0	4147.9	4142.4	4149.3
10°	5131.3	4936.0	4601.3	4341.8	4186.1	4108.3	4079.6	4094.6	4108.3	4120.6	4134.2
12.5°	5233.7	4960.5	4488.0	4175.2	4042.7	4012.7	4041.4	4106.9	4154.7	4183.4	4201.2
15°	5367.5	4982.4	4356.9	4008.6	3919.8	3954.0	4050.9	4164.3	4247.6	4300.9	4309.1
17.5°	5490.5	4981.0	4188.9	3840.6	3820.1	3919.8	4065.9	4225.7	4337.7	4412.9	4427.9
20°	5617.5	4944.1	3993.6	3676.7	3719.0	3882.9	4072.8	4265.3	4400.6	4488.0	4508.5
22.5°	5736.3	4880.0	3779.1	3527.8	3634.4	3833.8	4046.8	4242.1	4377.3	4448.4	4470.2
25°	5816.9	4768.0	3562.0	3402.2	3559.2	3773.7	3962.1	4119.2	4220.3	4255.8	4261.3
27.5°	5857.9	4621.8	3357.1	3292.9	3481.4	3675.3	3805.1	3882.9	3911.6	3908.9	3903.4
30°	5863.3	4429.2	3180.9	3204.1	3391.2	3530.6	3592.0	3577.0	3540.1	3477.3	3482.8
32.5°	5845.6	4212.1	3033.4	3119.5	3276.5	3354.4	3357.1	3284.7	3186.4	3086.7	3059.4
35°	5851.0	3999.0	2903.7	3023.8	3137.2	3171.4	3139.9	3033.4	2899.6	2771.2	2743.9
37.5°	5911.1	3813.3	2791.7	2913.2	2982.9	2991.1	2946.0	2834.0	2735.7	2610.0	2599.1
40°	6054.5	3680.8	2685.1	2788.9	2828.5	2832.6	2768.4	2689.2	2697.4	2630.5	2629.1
42.5°	6312.7	3623.4	2590.9	2659.2	2683.8	2692.0	2642.8	2592.3	2663.3	2619.6	2604.6
45°	6645.9	3637.1	2511.7	2532.2	2577.2	2615.5	2585.4	2524.0	2551.3	2361.4	2298.6
47.5°	7031.1	3724.5	2448.9	2422.9	2500.8	2573.1	2526.7	2433.8	2336.9	2148.4	2112.9
50°	7481.8	3859.7	2391.5	2315.0	2417.4	2515.8	2469.3	2336.9	2190.7	2099.2	2086.9
52.5°	7951.6	4025.0	2334.1	2196.2	2312.3	2472.1	2448.9	2315.0	2134.7	2044.6	2028.2
55°	8484.3	4191.6	2261.7	2058.2	2198.9	2451.6	2439.3	2235.8	2092.4	2041.8	2029.6
57.5°	9146.7	4381.4	2166.1	1914.8	2092.4	2377.8	2339.6	2188.0	2048.7	2010.4	2006.3
60°	10009.8	4661.4	2028.2	1761.9	1962.6	2264.5	2256.3	2118.3	1979.0	1951.7	1946.2
62.5°	11304.6	5124.4	1838.3	1608.9	1817.9	2071.9	2147.0	2024.1	1905.3	1903.9	1906.6
65°	13312.3	5821.0	1632.1	1475.0	1671.7	1909.4	2020.0	1927.1	1830.2	1857.5	1861.6
67.5°	15639.6	6398.7	1430.0	1343.9	1522.9	1755.0	1905.3	1830.2	1730.5	1801.5	1802.8
70°	16414.0	5882.4	1252.4	1214.2	1368.5	1606.2	1781.0	1723.6	1622.6	1693.6	1686.7
72°	15274.9	4748.8	1137.7	1115.8	1252.4	1483.2	1670.4	1623.9	1524.2	1572.0	1554.3
72.5°	14915.7	4527.6	1109.0	1091.3	1221.0	1451.8	1641.7	1599.3	1499.6	1540.6	1524.2
75°	13305.5	3932.1	953.3	957.4	1065.3	1298.9	1480.5	1466.9	1364.4	1368.5	1363.1
77.5°	9650.6	2883.2	803.1	830.4	906.9	1141.8	1318.0	1309.8	1197.8	1177.3	1173.2
80°	4478.4	1471.0	654.2	666.5	745.7	954.7	1124.0	1113.1	1023.0	997.0	982.0
82.5°	1533.8	699.3	491.7	499.9	577.7	768.9	975.2	968.3	893.2	842.7	811.3
85°	547.7	348.3	344.2	336.0	412.5	605.0	849.5	812.6	702.0	598.2	595.5
87.5°	177.6	148.9	177.6	176.2	240.4	409.7	617.3	525.8	509.4	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)