

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: P322214

Luminaire Tested: **GAN-SA0C-730-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322214  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0C-730-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46462 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

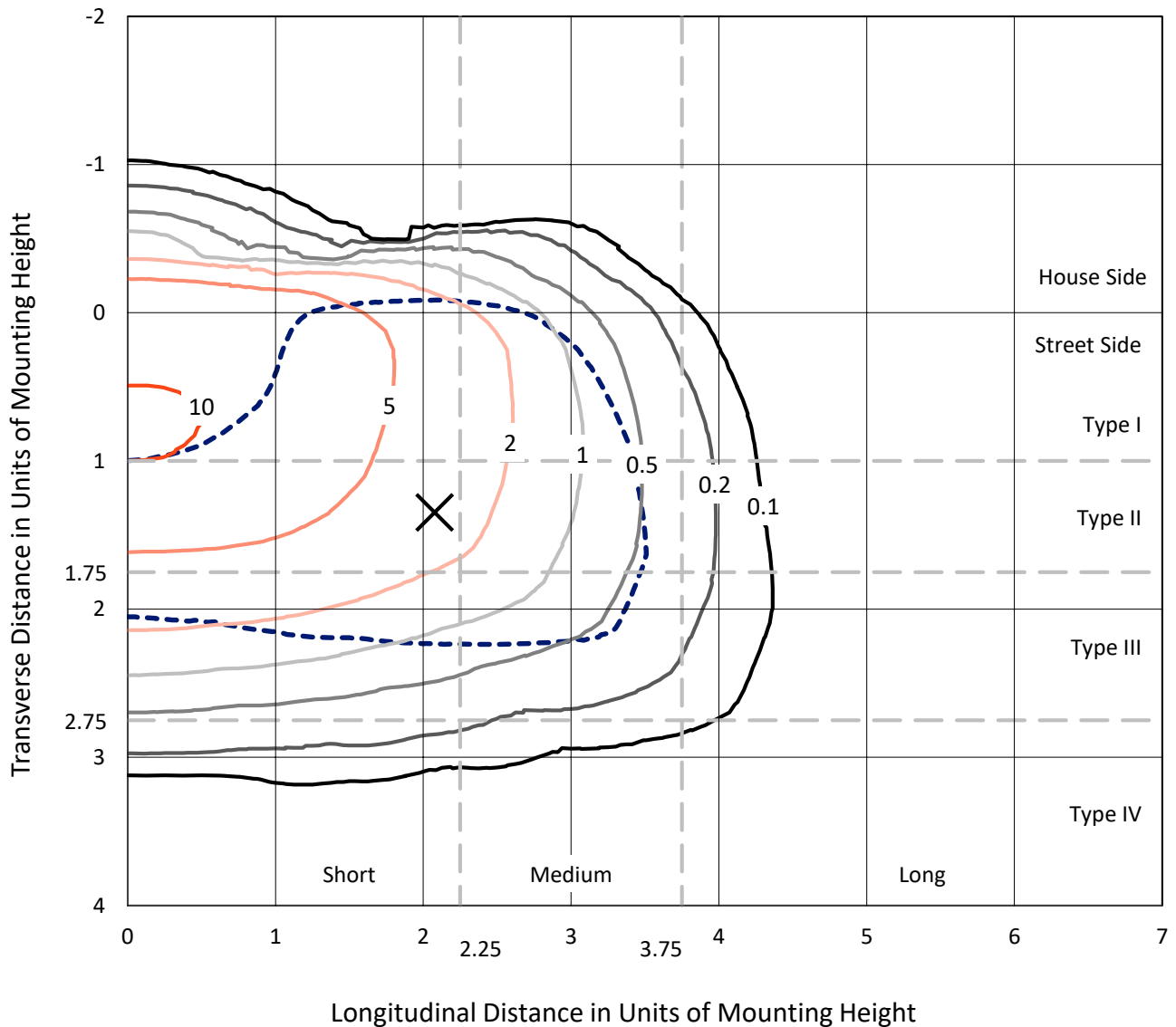
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

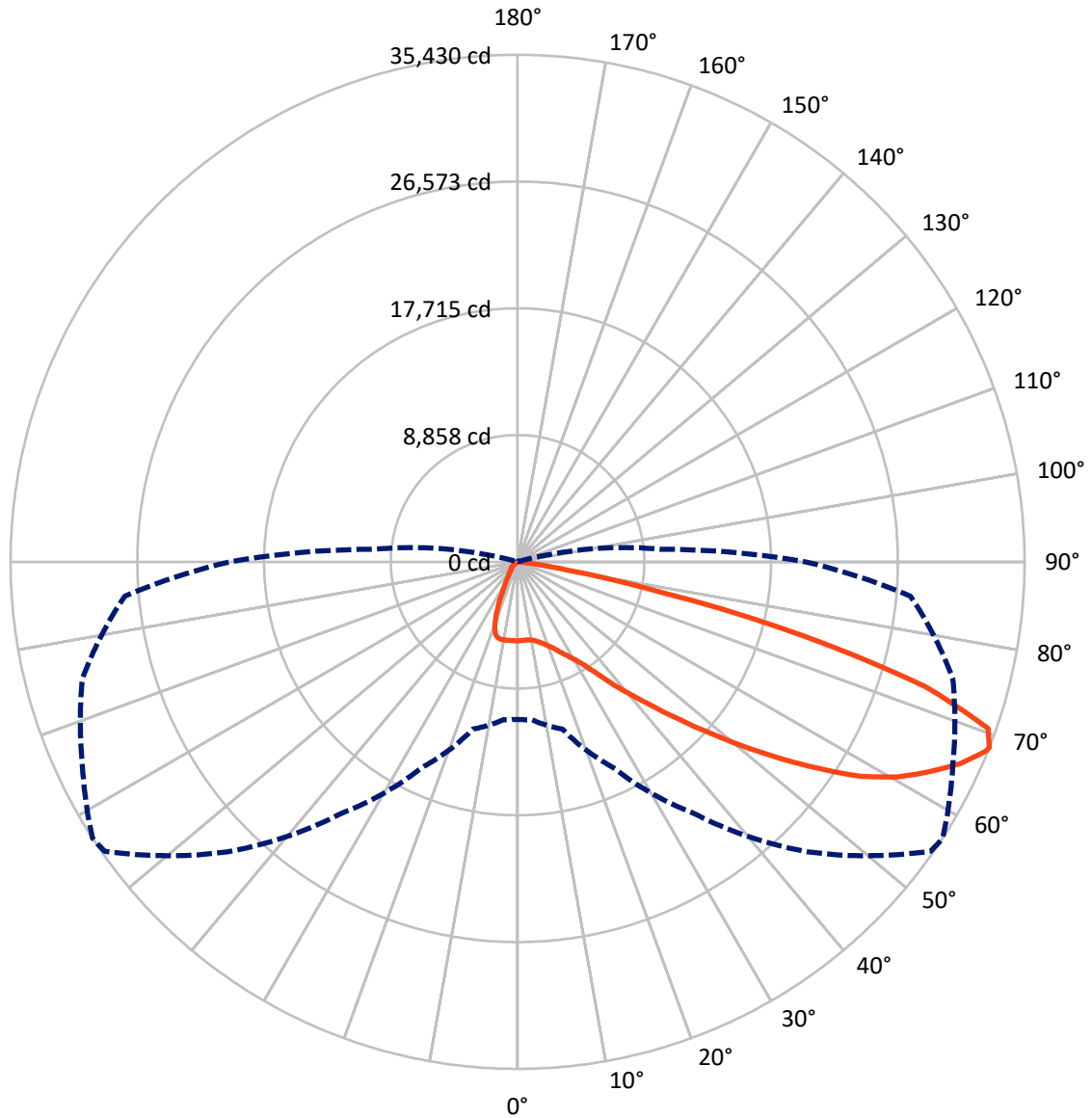
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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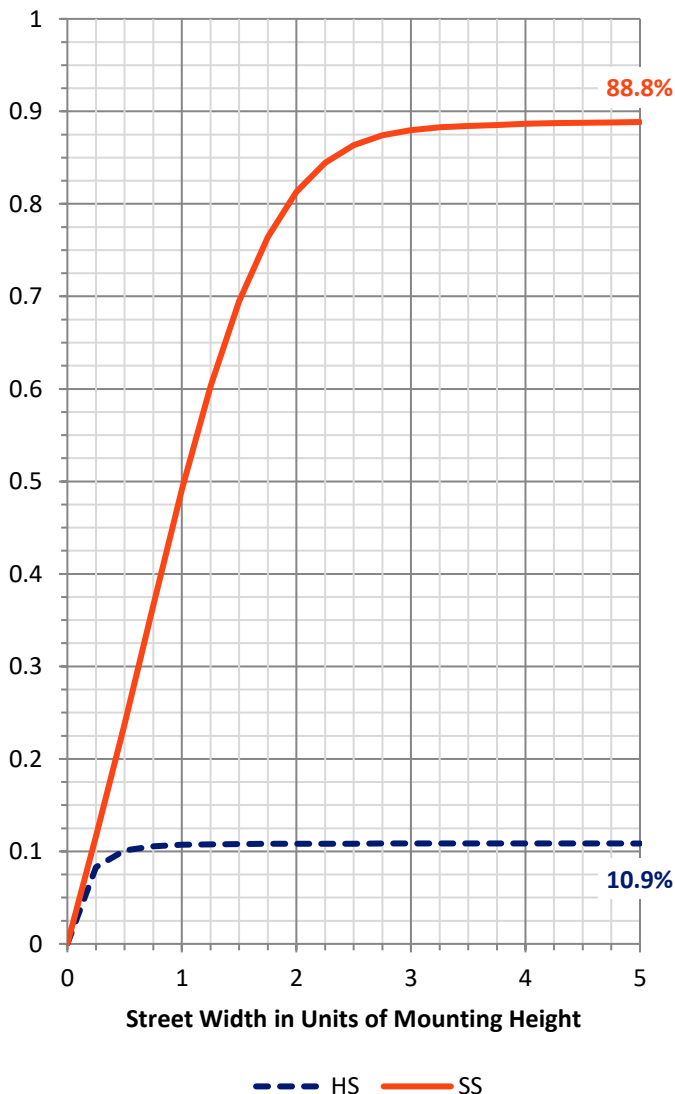
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5094.8	0.0	5094.8
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	41367.2	0.0	41367.2
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	46462.0	0.0	46462.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	516.7	1.1
10°-20°	1431.7	3.1
20°-30°	2469.9	5.3
30°-40°	4262.9	9.2
40°-50°	7291.8	15.7
50°-60°	11666.2	25.1
60°-70°	13479.1	29.0
70°-80°	5150.6	11.1
80°-90°	193.1	0.4
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°	46462.0	100.0
0°-180°	46462.0	100.0

**Coefficient of Utilization**



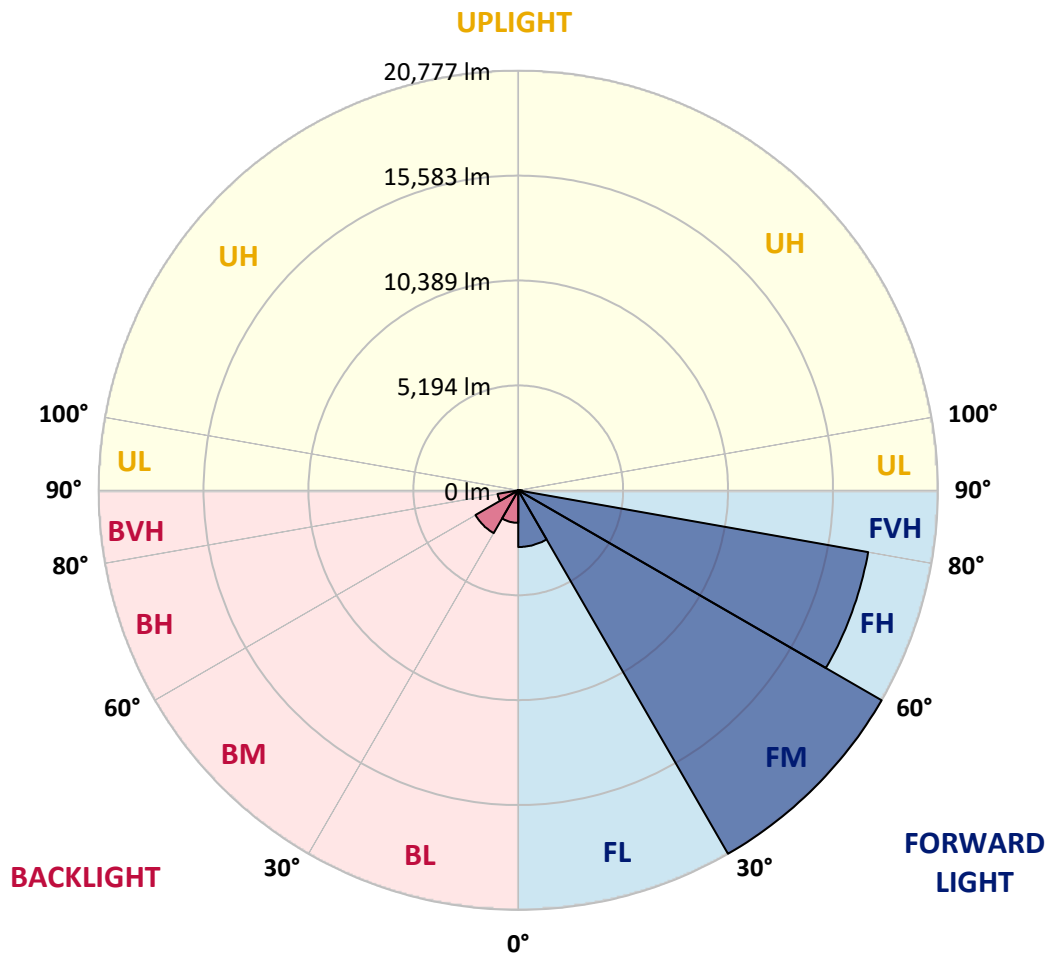
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2808.2	6.0			
FM (30°-60°)	20777.4	44.7			
FH (60°-80°)	17592.0	37.9			G5
FVH (80°-90°)	189.6	0.4			G2/225
BL (0°-30°)	1610.1	3.5	B3/2500		
BM (30°-60°)	2443.6	5.3	B2/2500		
BH (60°-80°)	1037.6	2.2	B3/2500		G3/2500
BVH (80°-90°)	3.5	0.0			G0/10
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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9
2.5°	5391.3	5415.5	5433.0	5444.0	5457.2	5485.8	5494.5	5507.7	5514.3	5514.3	5529.7
5°	5178.2	5204.6	5241.9	5272.7	5334.2	5413.3	5470.4	5492.4	5531.9	5567.0	5586.8
7.5°	4980.5	5011.2	5055.2	5127.7	5233.1	5360.5	5479.2	5509.9	5586.8	5661.5	5698.9
10°	4853.0	4877.2	4934.3	5037.6	5176.0	5353.9	5520.9	5558.3	5690.1	5815.3	5885.6
12.5°	4809.1	4831.1	4890.4	5006.8	5178.2	5386.9	5617.6	5672.5	5865.8	6048.2	6147.0
15°	4872.8	4877.2	4940.9	5050.8	5219.9	5468.2	5778.0	5843.9	6087.7	6325.0	6448.0
17.5°	5118.9	5099.1	5132.1	5180.4	5314.4	5575.8	5947.1	6046.0	6371.1	6650.1	6766.6
20°	5734.0	5734.0	5659.3	5527.5	5529.7	5742.8	6175.6	6287.6	6685.3	7008.2	7113.7
22.5°	6786.3	6766.6	6617.2	6294.2	5997.6	6030.6	6454.6	6599.6	7063.2	7408.1	7443.2
25°	8051.8	8027.6	7796.9	7342.2	6828.1	6496.4	6832.5	6999.5	7513.5	7818.9	7746.4
27.5°	9391.9	9372.1	9143.7	8579.1	7847.5	7238.9	7282.9	7441.0	7972.7	8273.7	8043.0
30°	10690.3	10696.9	10470.6	9890.6	9062.4	8185.8	7854.1	7946.3	8418.7	8724.0	8394.5
32.5°	11925.0	11933.8	11738.3	11090.2	10316.8	9286.5	8645.0	8620.8	8937.2	9238.1	8860.3
35°	13025.7	13047.6	12913.6	12410.5	11591.1	10512.4	9670.9	9613.8	9673.1	10013.7	9574.3
37.5°	14086.8	14100.0	13998.9	13574.9	12889.4	11859.1	10967.1	10885.8	10758.4	11019.9	10516.8
40°	15249.0	15216.0	15099.6	14715.1	14126.3	13346.4	12360.0	12219.4	11997.5	12230.4	11755.8
42.5°	16329.9	16292.5	16312.3	15877.3	15380.8	14875.5	13983.5	13741.9	13612.2	13880.3	13276.1
45°	17681.0	17661.2	17727.1	17349.2	16947.2	16580.3	15844.3	15580.7	15523.6	15837.7	15114.9
47.5°	19014.5	19062.8	19267.2	19106.8	18944.2	18621.3	17815.0	17696.4	17731.5	18111.6	17054.8
50°	20126.2	20183.3	20743.5	20928.1	21163.1	20974.2	20165.7	20093.2	20231.6	20574.3	19141.9
52.5°	20930.2	21046.7	21743.1	22593.3	23450.1	23577.6	22771.3	22705.4	22892.1	22944.8	20754.5
55°	21488.3	21591.5	22380.2	23935.7	25680.0	26229.3	25728.4	25473.5	25438.4	24917.7	22450.5
57.5°	21587.1	21576.1	22709.8	24803.5	27428.8	28845.8	28529.5	28279.0	27558.4	26741.2	24394.8
60°	21029.1	21092.8	22408.8	25104.4	28527.3	30825.3	30849.4	30524.3	29401.6	28514.1	26279.8
62.5°	19311.1	19570.3	20899.5	24315.7	28514.1	31622.8	32549.9	32301.6	30959.3	29966.3	28191.1
65°	16525.4	16617.7	17885.3	21613.5	26587.4	31288.8	34081.1	33988.9	32363.1	31376.7	29173.2
67.5°	12067.8	11867.9	13199.2	17019.7	22509.8	29342.3	35179.6	35296.0	33446.2	31666.7	28127.4
68°	11013.3	11072.6	12109.5	15883.9	21442.1	28654.7	35252.1	35430.1	33553.9	31477.8	27556.2
70°	6564.5	6678.7	7603.6	10936.4	16312.3	24763.9	34470.0	34876.4	32912.4	29529.1	23834.6
72.5°	1676.3	1812.5	2686.9	4894.8	9317.2	17448.1	29098.5	29786.1	28575.6	23955.4	16090.4
75°	689.8	725.0	960.1	1612.6	3471.2	7860.7	19179.3	20651.2	19809.8	14341.6	7271.9
77.5°	476.7	500.9	617.3	894.2	1502.7	2664.9	9402.9	10466.2	9429.3	4894.8	1586.2
80°	342.7	362.5	441.6	595.4	863.4	951.3	3064.7	3543.7	2814.3	1074.3	393.3
82.5°	204.3	219.7	329.5	424.0	525.1	454.8	762.3	865.6	815.1	533.9	175.8
85°	101.1	118.6	221.9	303.2	283.4	191.1	232.9	259.2	320.8	325.1	94.5
87.5°	6.6	13.2	129.6	182.3	79.1	43.9	68.1	83.5	114.2	160.4	39.5
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°	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9	5520.9
2.5°	5536.3	5538.5	5523.1	5516.5	5520.9	5494.5	5483.6	5488.0	5488.0	5494.5	5483.6
5°	5591.2	5591.2	5564.8	5529.7	5509.9	5459.4	5426.4	5417.7	5411.1	5406.7	5397.9
7.5°	5709.8	5696.7	5650.5	5573.6	5507.7	5397.9	5314.4	5270.5	5248.5	5239.7	5233.1
10°	5901.0	5876.8	5799.9	5657.1	5505.5	5310.0	5127.7	4998.0	4890.4	4846.4	4820.1
12.5°	6158.0	6122.9	5993.3	5756.0	5490.2	5129.9	4734.4	4354.3	4000.6	3855.6	3783.1
15°	6454.6	6404.1	6199.8	5839.5	5400.1	4723.4	3864.4	3198.7	2708.8	2524.3	2445.2
17.5°	6755.6	6689.7	6379.9	5892.2	5129.9	3882.0	2711.0	2047.5	1720.2	1632.3	1601.6
20°	7058.8	6962.1	6535.9	5852.6	4519.1	2798.9	1788.3	1496.1	1401.6	1375.3	1366.5
22.5°	7346.6	7197.2	6676.5	5698.9	3578.8	1878.4	1414.8	1322.6	1291.8	1276.4	1272.0
25°	7597.0	7388.3	6799.5	5224.3	2533.1	1419.2	1274.2	1243.5	1203.9	1175.4	1177.6
27.5°	7832.1	7579.4	6874.2	4442.2	1689.4	1212.7	1179.8	1138.0	1065.5	1023.8	1023.8
30°	8115.5	7834.3	6929.1	3418.4	1243.5	1072.1	1045.7	982.0	883.2	828.2	828.2
32.5°	8541.7	8220.9	6894.0	2399.1	1030.4	942.5	881.0	793.1	685.4	632.7	630.5
35°	9194.2	8818.5	6643.5	1573.0	909.5	819.5	720.6	612.9	518.5	474.5	472.3
37.5°	10073.0	9618.2	6081.1	1124.8	815.1	705.2	586.6	467.9	397.6	369.1	366.9
40°	11213.2	10547.5	5277.1	911.7	727.2	595.4	452.6	362.5	314.2	292.2	294.4
42.5°	12581.9	11542.7	4312.6	786.5	641.5	489.9	353.7	285.6	254.8	239.5	235.1
45°	14102.2	12524.8	3302.0	700.8	555.8	395.4	276.8	226.3	202.1	193.3	193.3
47.5°	15774.0	13480.4	2416.6	626.1	463.6	305.4	221.9	184.5	164.8	158.2	156.0
50°	17292.1	14143.9	1742.2	547.0	380.1	241.7	180.1	153.8	140.6	131.8	131.8
52.5°	18557.6	14352.6	1283.0	461.4	307.6	193.3	149.4	131.8	118.6	112.0	112.0
55°	19671.4	14266.9	953.5	380.1	248.3	158.2	127.4	112.0	101.1	94.5	94.5
57.5°	20739.1	13990.1	711.8	309.8	199.9	127.4	107.7	94.5	83.5	79.1	79.1
60°	21611.3	13528.8	529.5	250.5	160.4	103.3	90.1	76.9	68.1	61.5	61.5
62.5°	22318.7	13019.1	388.9	206.5	127.4	81.3	70.3	63.7	50.5	43.9	43.9
65°	22323.1	12173.2	292.2	171.4	98.9	63.7	52.7	50.5	33.0	26.4	24.2
67.5°	20708.4	10494.8	224.1	147.2	76.9	48.3	39.5	41.7	17.6	11.0	8.8
68°	20121.8	10068.6	210.9	145.0	72.5	46.1	37.3	41.7	15.4	8.8	6.6
70°	16964.8	8010.0	169.2	140.6	63.7	35.2	30.8	41.7	13.2	6.6	4.4
72.5°	10850.7	4648.7	125.2	112.0	48.3	26.4	19.8	37.3	13.2	4.4	2.2
75°	4618.0	1441.2	85.7	79.1	28.6	19.8	13.2	24.2	8.8	2.2	0.0
77.5°	973.2	325.1	50.5	48.3	19.8	13.2	8.8	6.6	2.2	0.0	0.0
80°	250.5	94.5	26.4	24.2	11.0	6.6	4.4	0.0	0.0	0.0	0.0
82.5°	79.1	37.3	15.4	11.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.5	22.0	8.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.0	6.6	2.2	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)