

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: McGRAW-EDISON

Report Number: P651999

Luminaire Tested: **GALN-SA7A-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651999  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-840-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15635.8 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

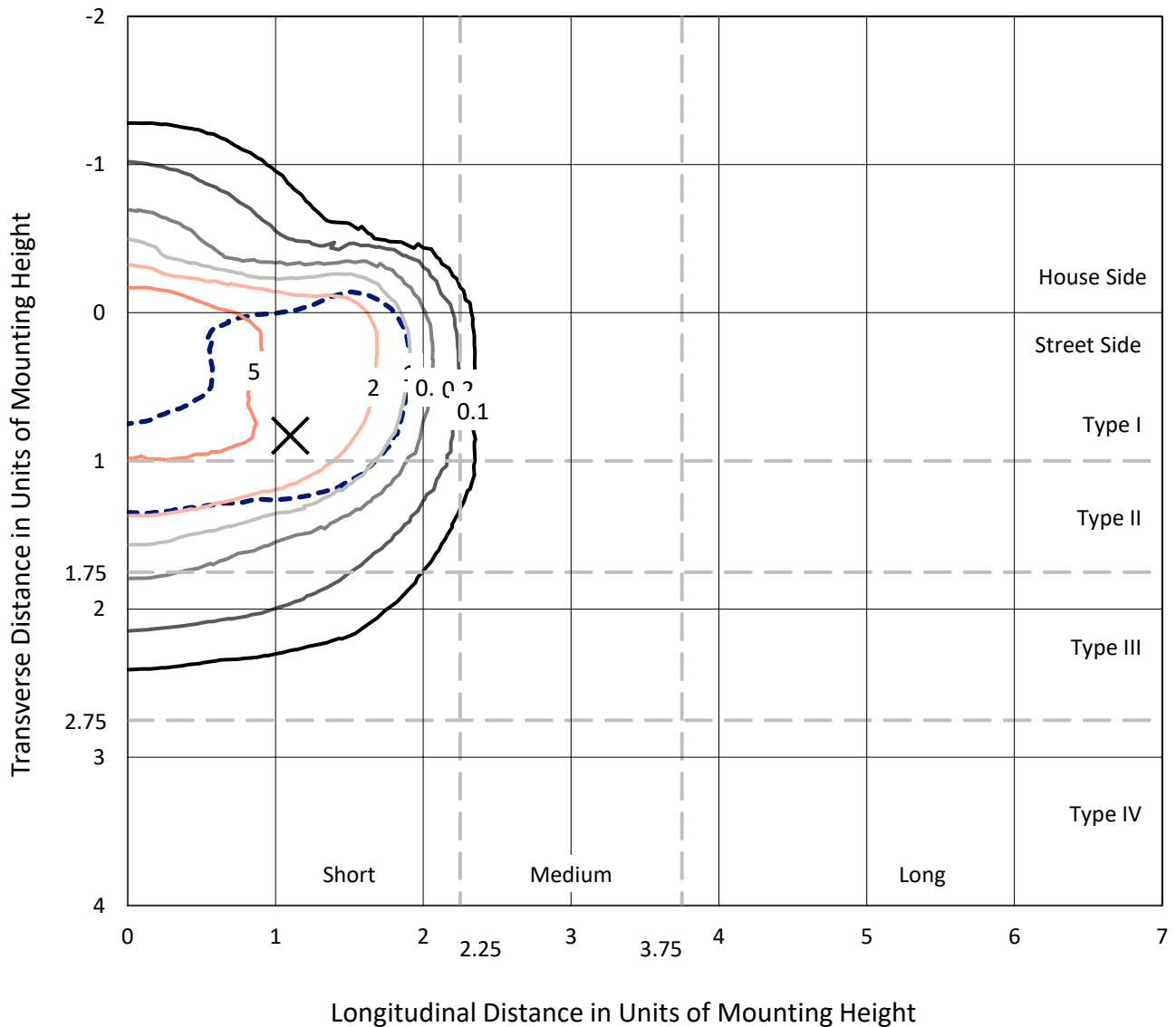
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

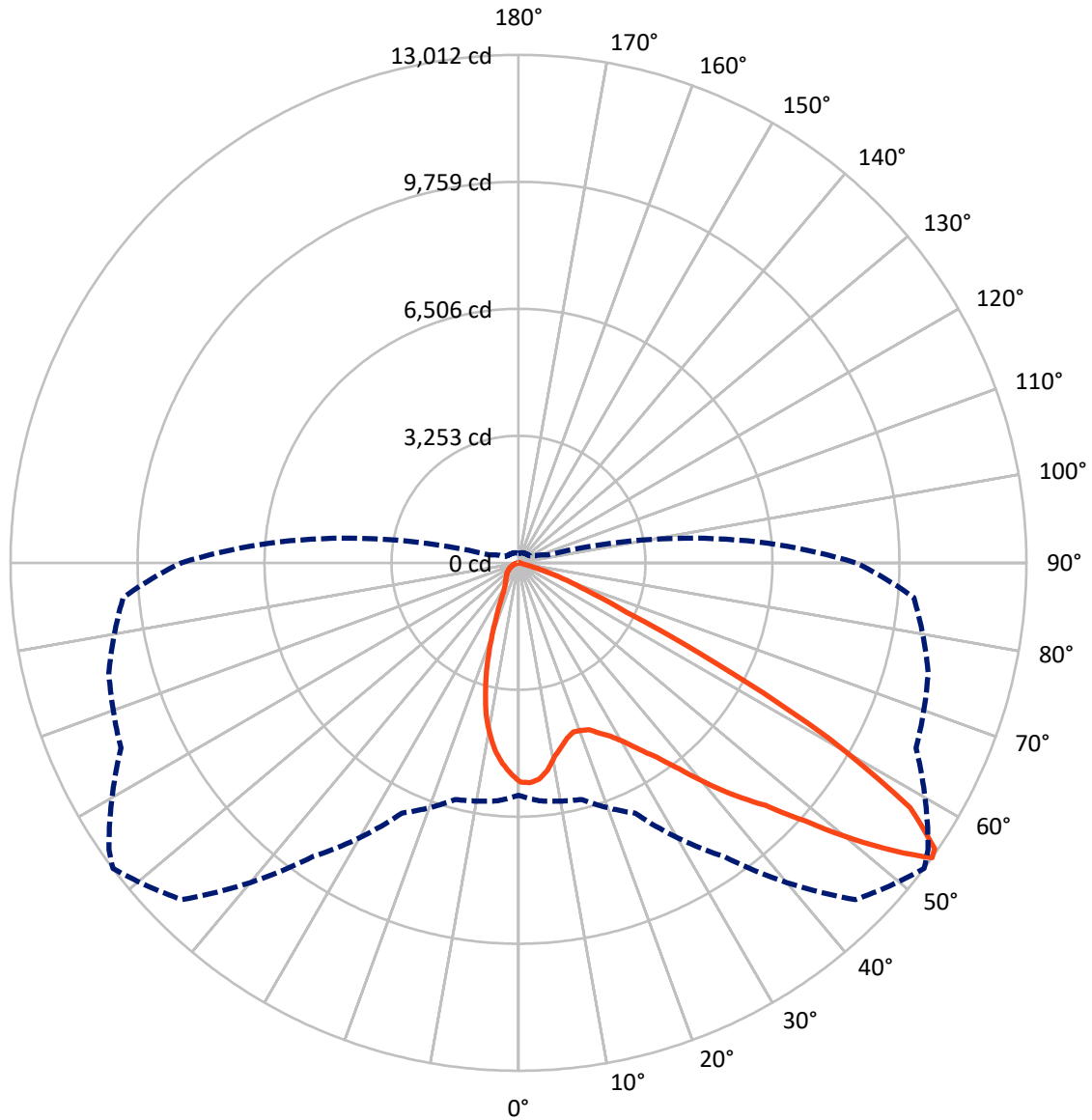
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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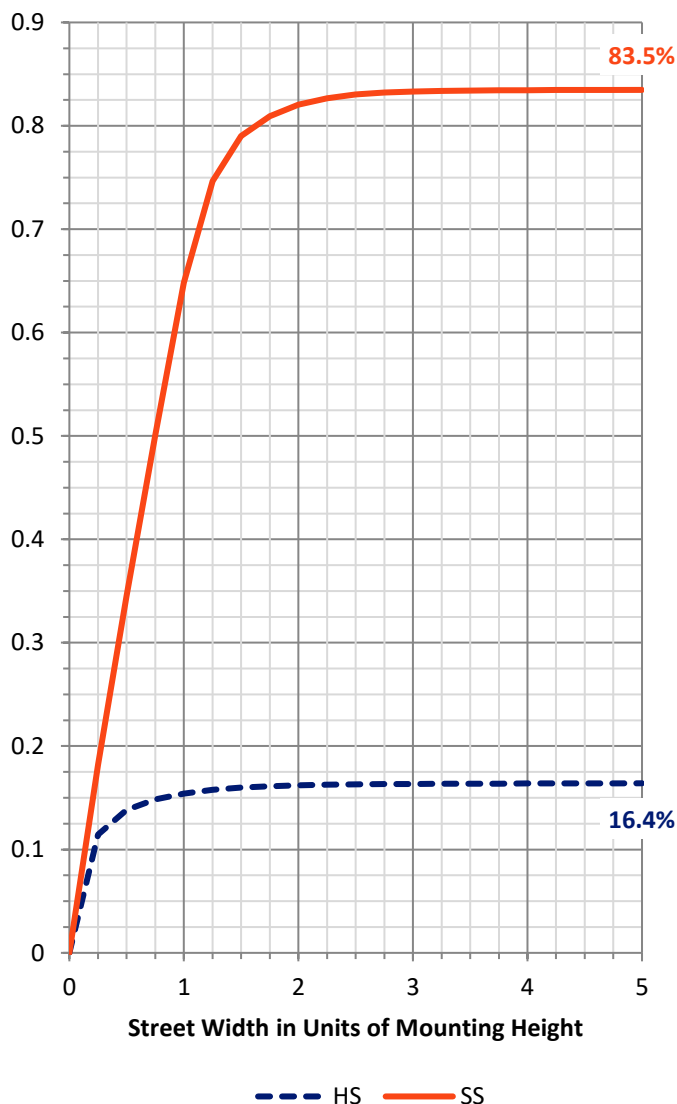
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2587.0	0.0	2587.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	13048.9	0.0	13048.9
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	15635.8	0.0	15635.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.9	3.1
10°-20°	1104.7	7.1
20°-30°	1570.1	10.0
30°-40°	2423.0	15.5
40°-50°	3799.1	24.3
50°-60°	4413.1	28.2
60°-70°	1667.6	10.7
70°-80°	158.6	1.0
80°-90°	17.8	0.1
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°	15635.8	100.0
0°-180°	15635.8	100.0

**Coefficient of Utilization**

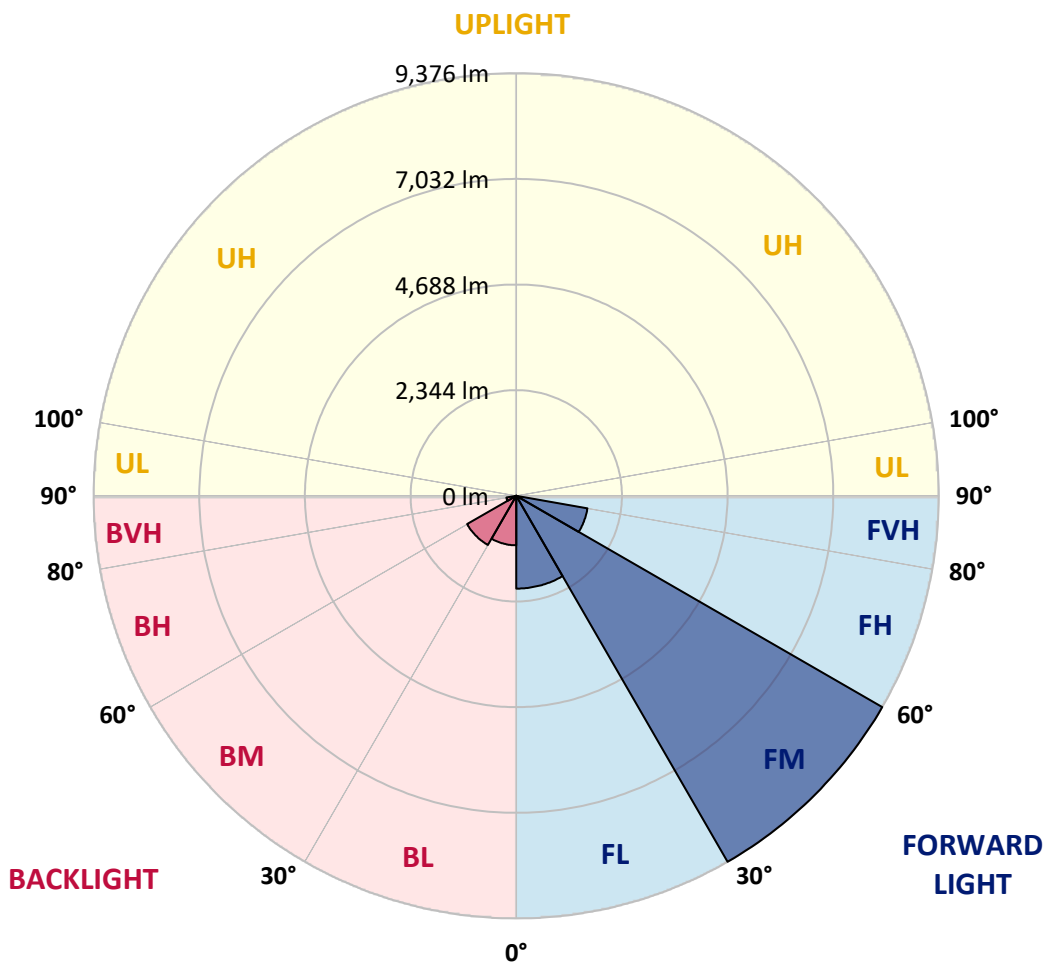


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2058.8	13.2			
FM (30°-60°)	9376.3	60.0			
FH (60°-80°)	1604.5	10.3			G1/1800
FVH (80°-90°)	9.2	0.1			G0/10
BL (0°-30°)	1097.8	7.0	B3/2500		
BM (30°-60°)	1258.9	8.1	B2/2500		
BH (60°-80°)	221.6	1.4	B1/500		G1/500
BVH (80°-90°)	8.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5616.1	5616.1	5616.1	5616.1	5616.1	5616.1	5616.1	5616.1	5616.1	5616.1	5616.1
2.5°	5587.0	5537.5	5587.0	5592.8	5627.8	5659.8	5639.4	5686.1	5659.8	5630.7	5622.0
5°	5135.5	5202.5	5205.5	5310.2	5286.9	5479.2	5563.7	5540.4	5683.1	5674.4	5654.0
7.5°	4730.6	4704.4	4739.4	4861.7	5016.1	5237.5	5359.8	5356.9	5560.8	5706.4	5691.9
10°	4354.9	4351.9	4424.8	4520.9	4652.0	4885.0	5053.9	5138.4	5455.9	5677.3	5709.4
12.5°	4101.4	4089.8	4168.4	4247.0	4453.9	4634.5	4850.0	4890.8	5254.9	5575.3	5627.8
15°	3935.4	3961.6	3967.4	4118.9	4250.0	4488.8	4657.8	4742.2	5161.7	5493.8	5694.8
17.5°	3906.3	3941.2	3944.1	4069.3	4209.2	4410.2	4558.7	4672.3	5083.1	5534.6	5697.7
20°	3964.5	3944.1	3961.6	4040.2	4177.2	4369.4	4585.0	4622.8	5056.8	5555.0	5729.7
22.5°	4130.6	4124.7	4081.0	4145.1	4241.2	4442.2	4646.1	4704.4	5132.6	5659.8	5756.0
25°	4314.1	4346.1	4305.3	4296.6	4363.6	4561.7	4832.6	4908.3	5386.0	5849.2	5837.5
27.5°	4657.8	4625.8	4625.8	4585.0	4567.5	4663.6	5033.6	5158.8	5668.6	6093.9	5930.7
30°	4987.0	5021.9	4995.7	5010.3	4893.7	4885.0	5319.0	5473.4	6169.6	6466.7	6128.8
32.5°	5508.4	5461.8	5505.4	5467.6	5313.2	5155.9	5706.4	5866.6	6775.5	6894.9	6425.9
35°	5942.4	5922.0	6108.4	6102.6	5852.1	5697.7	6117.2	6356.0	7197.9	7407.6	6775.5
37.5°	6560.0	6522.0	6734.7	6836.7	6612.4	6382.3	6705.5	6982.3	7591.1	7818.4	7133.8
40°	7194.9	7291.0	7576.6	7745.5	7506.6	7200.8	7425.1	7509.5	7853.3	8086.3	7378.4
42.5°	7998.9	8138.8	8430.0	8575.7	8555.3	8223.2	8156.2	8153.3	8042.7	8010.6	7559.1
45°	8770.9	8718.4	9167.0	9484.5	9740.9	9644.8	8861.1	8773.7	8342.6	8124.1	7605.7
47.5°	9108.8	9091.3	9397.2	9962.2	10836.1	10955.5	9886.5	9548.6	8849.5	8601.9	7859.1
50°	8671.8	8762.1	9065.1	9691.3	11031.3	11943.0	11144.9	10690.5	9440.8	9184.5	8459.2
52.5°	7244.5	7305.7	7594.1	8389.2	10367.2	12525.6	12350.8	12088.7	10527.4	10102.1	9504.9
54°	5957.0	6120.0	6277.4	7075.5	9184.5	12202.3	13012.1	12811.1	11235.2	10865.2	10163.2
55°	5188.0	5284.1	5397.7	6192.9	8365.9	11654.7	12936.3	12953.8	11710.0	11104.1	10606.0
57.5°	3789.7	3856.7	3740.2	4092.6	5744.3	9464.1	11832.4	12304.3	12350.8	11462.4	10876.9
60°	2895.5	2924.6	2793.5	2848.9	3571.2	6495.9	9152.4	9720.4	11142.0	10017.6	9213.7
62.5°	2245.9	2251.7	2248.7	2344.9	2461.4	3821.8	5723.9	6227.9	7681.4	7113.4	6257.0
65°	1654.6	1628.3	1674.9	1966.3	2100.2	2403.2	3014.9	3381.9	4174.2	3524.6	2519.7
67.5°	1071.9	1080.7	1127.3	1462.3	1800.2	1843.9	1855.6	1826.4	1829.3	1007.9	632.1
70°	643.8	658.3	643.8	827.3	1287.5	1322.5	1208.9	1179.8	920.5	238.8	236.0
72.5°	381.6	361.2	323.4	355.4	536.0	640.8	576.8	573.8	361.2	139.9	139.9
75°	160.2	145.7	119.4	107.8	142.7	136.9	136.9	122.4	96.1	93.2	87.4
77.5°	32.0	32.0	23.3	26.2	35.0	40.8	49.5	49.5	58.3	58.3	55.3
80°	0.0	2.9	8.7	17.5	26.2	37.8	43.7	43.7	49.5	49.5	40.8
82.5°	0.0	2.9	8.7	17.5	23.3	35.0	43.7	43.7	49.5	52.4	43.7
85°	0.0	2.9	8.7	14.5	23.3	29.1	29.1	26.2	20.4	17.5	11.7
87.5°	0.0	0.0	2.9	5.8	2.9	5.8	5.8	5.8	5.8	5.8	5.8
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°	5616.1	5616.1	5616.1	5616.1	5616.1	5616.1	5616.1	5616.1	5616.1	5616.1	5616.1
2.5°	5642.4	5639.4	5569.5	5455.9	5429.7	5333.6	5321.9	5263.7	5295.7	5188.0	5176.3
5°	5595.8	5560.8	5476.3	5403.5	5190.8	5039.4	4919.9	4774.3	4689.8	4704.4	4649.0
7.5°	5662.8	5572.5	5423.9	5170.5	4911.2	4646.1	4503.4	4206.3	4098.5	3938.3	3915.0
10°	5592.8	5525.9	5295.7	4876.3	4517.9	4136.4	3801.4	3472.2	3221.7	3114.0	3090.6
12.5°	5587.0	5470.5	5085.9	4619.9	4101.4	3553.8	3067.3	2656.6	2409.0	2269.2	2237.1
15°	5496.7	5356.9	4850.0	4223.8	3507.1	2825.5	2295.4	1899.2	1709.9	1628.3	1651.6
17.5°	5505.4	5295.7	4614.1	3804.3	2921.6	2074.0	1567.1	1363.3	1313.7	1334.2	1334.2
20°	5496.7	5158.8	4328.6	3320.8	2237.1	1439.0	1150.6	1077.8	1109.9	1174.0	1159.3
22.5°	5450.1	5094.7	4066.5	2811.0	1645.8	1066.1	923.4	926.3	975.8	1054.4	1071.9
25°	5485.1	4952.0	3734.4	2295.4	1200.1	850.6	801.1	821.5	873.9	932.2	943.8
27.5°	5458.8	4850.0	3387.7	1782.8	876.8	731.2	728.2	751.5	774.8	818.5	818.5
30°	5487.9	4756.9	3046.9	1325.4	722.4	669.9	658.3	675.8	699.1	707.9	704.9
32.5°	5595.8	4686.9	2653.7	990.4	637.9	611.7	611.7	611.7	608.8	620.5	623.3
35°	5831.7	4698.6	2307.0	766.1	582.6	562.2	553.5	541.8	536.0	541.8	544.7
37.5°	6088.0	4692.8	1948.8	652.5	541.8	524.4	503.9	486.4	483.6	489.4	480.6
40°	6201.6	4748.1	1616.7	585.5	503.9	483.6	451.5	436.9	439.8	445.6	439.8
42.5°	6356.0	4765.5	1401.1	533.0	468.9	436.9	416.5	399.1	396.2	404.9	402.0
45°	6353.1	4666.5	1174.0	503.9	436.9	402.0	375.8	361.2	361.2	367.0	370.0
47.5°	6539.5	4652.0	1007.9	477.7	413.6	378.7	346.7	335.0	332.1	332.1	326.2
50°	6973.6	4855.8	879.7	448.6	384.5	352.5	326.2	311.7	300.1	294.2	291.3
52.5°	7821.2	5490.9	780.7	413.6	352.5	326.2	302.9	291.3	276.7	262.1	259.3
54°	8642.7	6146.3	774.8	384.5	326.2	308.7	288.4	282.6	265.1	244.6	238.8
55°	9012.7	6527.9	795.2	361.2	308.7	297.1	279.6	273.8	256.3	233.0	230.1
57.5°	9318.4	6676.4	783.6	300.1	279.6	276.7	262.1	253.4	233.0	201.0	195.2
60°	7500.8	5048.1	562.2	265.1	256.3	250.5	238.8	233.0	206.8	171.9	169.0
62.5°	4739.4	2904.2	358.3	233.0	224.3	215.5	201.0	195.2	171.9	136.9	128.2
65°	2018.7	1203.1	241.8	206.8	192.3	177.7	166.0	157.3	136.9	101.9	99.1
67.5°	524.4	428.2	201.0	180.6	160.2	139.9	131.1	116.5	93.2	69.9	67.0
70°	236.0	215.5	169.0	151.5	128.2	107.8	96.1	81.6	61.1	46.6	43.7
72.5°	139.9	136.9	128.2	113.6	96.1	81.6	69.9	55.3	40.8	26.2	26.2
75°	87.4	84.4	87.4	78.6	67.0	61.1	52.4	37.8	23.3	11.7	11.7
77.5°	52.4	52.4	52.4	49.5	46.6	46.6	37.8	23.3	11.7	2.9	2.9
80°	40.8	40.8	43.7	40.8	40.8	40.8	32.0	17.5	5.8	0.0	0.0
82.5°	40.8	43.7	49.5	46.6	40.8	35.0	29.1	17.5	5.8	0.0	0.0
85°	11.7	8.7	14.5	20.4	29.1	26.2	20.4	14.5	5.8	0.0	0.0
87.5°	5.8	5.8	5.8	5.8	2.9	2.9	2.9	2.9	2.9	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)