

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: P456738

Luminaire Tested: **GALN-SA8A-730-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456738  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8A-730-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26331 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

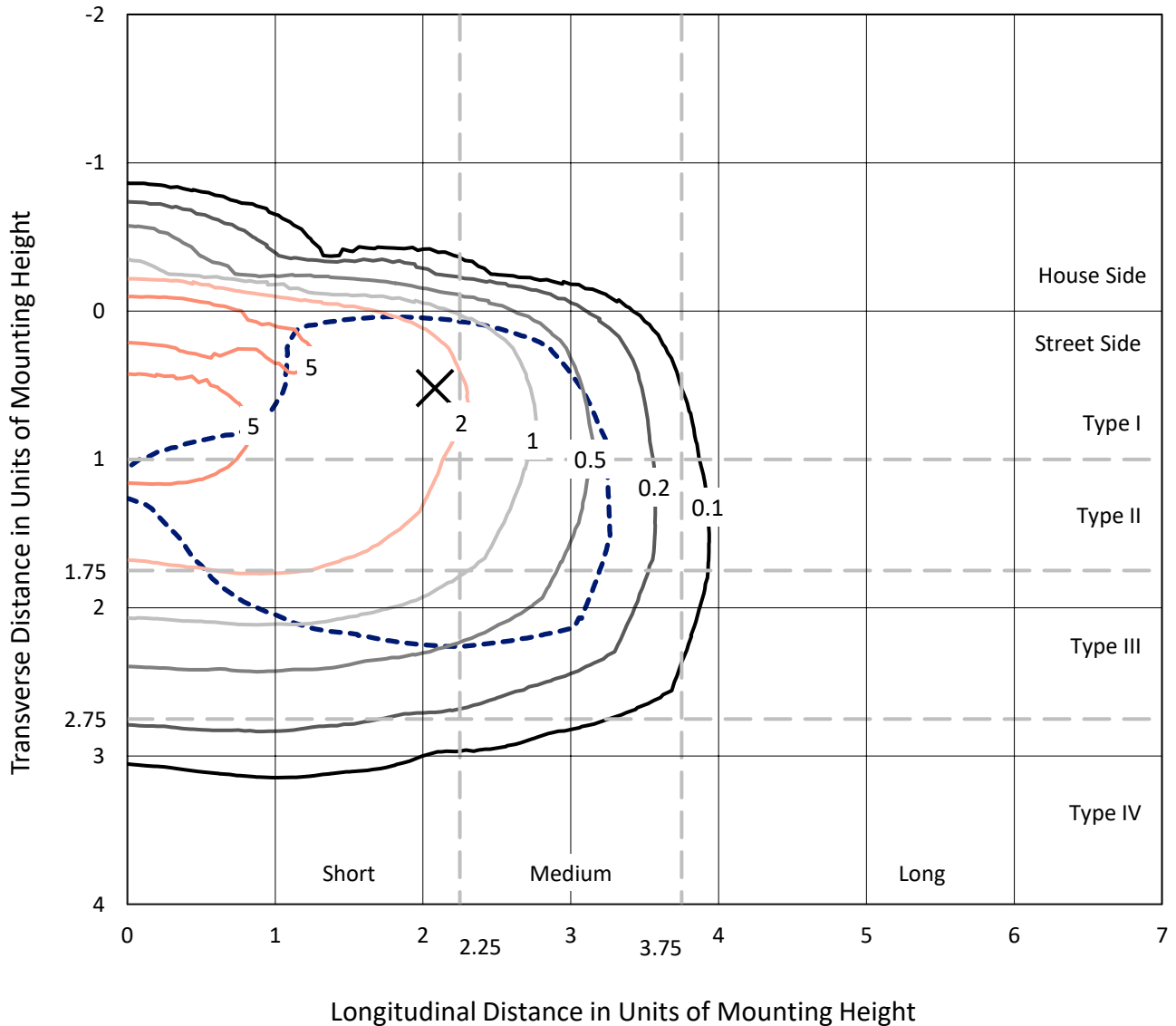
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

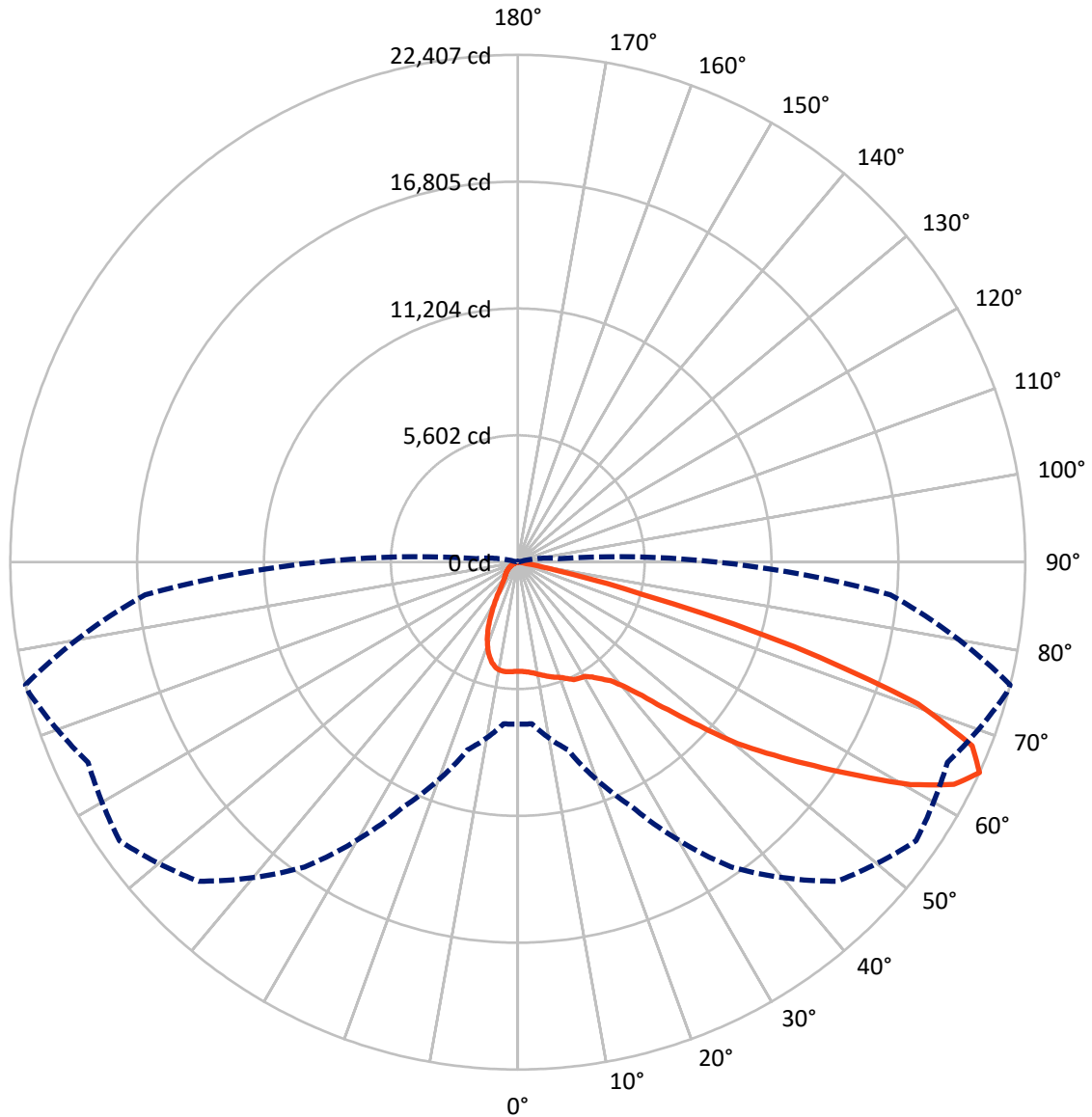
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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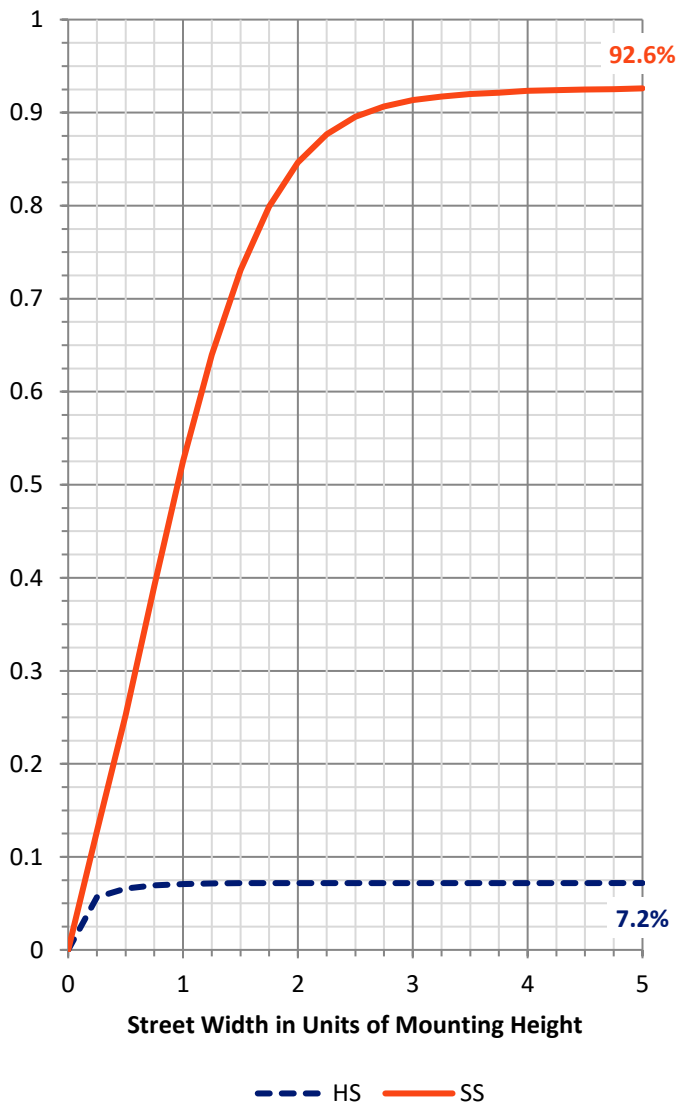
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1901.6	0.0	1901.6
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	24429.4	0.0	24429.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	26331.0	0.0	26331.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	396.8	1.5
10°-20°	883.5	3.4
20°-30°	1423.7	5.4
30°-40°	2475.4	9.4
40°-50°	4090.4	15.5
50°-60°	6318.8	24.0
60°-70°	7716.2	29.3
70°-80°	2928.5	11.1
80°-90°	97.7	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°	26331.0	100.0
0°-180°	26331.0	100.0

**Coefficient of Utilization**



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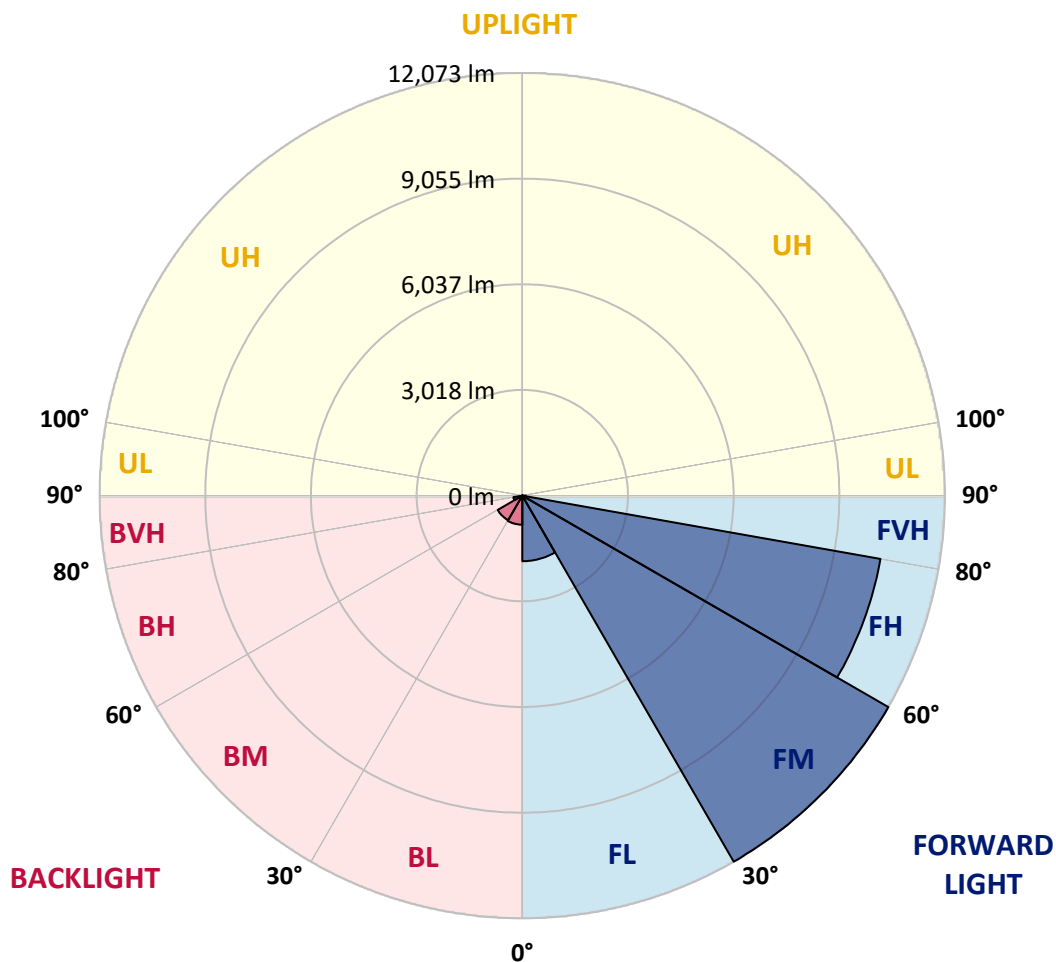
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1873.1	7.1			
FM (30°-60°)	12073.2	45.9			
FH (60°-80°)	10386.7	39.4			G4/12000
FVH (80°-90°)	96.4	0.4			G1/100
BL (0°-30°)	830.8	3.2	B2/1000		
BM (30°-60°)	811.5	3.1	B1/1000		
BH (60°-80°)	258.0	1.0	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4816.8	4816.8	4816.8	4816.8	4816.8	4816.8	4816.8	4816.8	4816.8	4816.8	4816.8
2.5°	4603.0	4604.8	4616.0	4643.9	4686.6	4722.0	4751.7	4800.0	4833.5	4837.2	4848.4
5°	4285.1	4262.8	4285.1	4357.6	4422.7	4521.2	4642.0	4762.9	4870.7	4878.1	4930.2
7.5°	3928.2	3946.7	3982.1	4056.4	4179.1	4329.7	4504.5	4720.1	4924.6	4943.2	5045.4
10°	3565.6	3606.5	3664.2	3777.6	3948.6	4143.8	4381.8	4690.4	5010.1	5036.1	5212.8
12.5°	3231.0	3249.6	3320.3	3472.7	3684.6	3959.8	4288.8	4673.6	5104.9	5136.5	5391.2
15°	2974.5	2998.6	3060.0	3197.6	3433.7	3786.9	4212.6	4668.1	5197.9	5242.5	5569.7
17.5°	2926.1	2941.0	2967.0	3060.0	3266.3	3649.3	4143.8	4666.2	5287.1	5341.0	5735.1
20°	3125.1	3112.0	3086.0	3076.7	3190.1	3543.3	4093.6	4681.1	5372.6	5434.0	5909.9
22.5°	3623.3	3640.0	3487.6	3307.2	3270.1	3526.6	4086.2	4751.7	5508.3	5580.8	6105.1
25°	4681.1	4552.8	4314.8	3883.5	3558.2	3628.9	4169.8	4919.0	5666.4	5746.3	6281.7
27.5°	5850.4	5811.4	5441.4	4731.3	4125.2	3844.5	4318.6	5047.3	5718.4	5800.2	6382.1
30°	6999.3	7045.8	6621.9	5837.4	4948.8	4244.2	4458.0	5095.6	5764.9	5850.4	6510.4
32.5°	8064.5	8120.3	7748.5	6971.4	5919.2	4935.8	4697.8	5283.4	5960.1	6047.5	6724.2
35°	8903.0	8910.4	8629.7	8010.6	6978.8	5776.0	5216.5	5612.5	6224.1	6326.3	6951.0
37.5°	9672.6	9661.4	9332.4	8798.9	7861.9	6610.8	5869.0	5991.7	6525.2	6631.2	7278.2
40°	10243.3	10250.8	10144.8	9642.9	8685.4	7382.3	6385.8	6346.8	7030.9	7196.4	7754.1
42.5°	10624.4	10693.2	10745.3	10490.6	9720.9	8332.2	7179.6	7107.1	7908.4	8045.9	8427.0
45°	10933.0	11055.7	11316.0	11303.0	10715.5	9497.9	8269.0	8120.3	9152.1	9298.9	9284.1
47.5°	11158.0	11282.5	11713.8	11974.1	11650.6	10628.1	9639.1	9510.9	10637.4	10797.3	10230.3
50°	11273.2	11422.0	11972.2	12476.0	12381.2	11717.5	11200.7	11208.2	12431.4	12585.7	11327.1
52.5°	11003.7	11197.0	12109.8	13017.0	13201.1	12760.5	12663.8	12909.2	14028.3	14160.3	12318.0
55°	10142.9	10386.5	11922.0	13478.1	14151.0	13991.2	14325.8	14699.5	15774.0	15859.5	13334.9
57.5°	9598.2	9856.6	11368.0	13870.3	15292.5	15537.9	16067.7	16341.0	17575.4	17792.9	14502.4
60°	9139.1	9341.7	10912.6	13954.0	16452.5	17430.4	17945.3	18227.9	19798.8	19940.1	15787.0
62.5°	8375.0	8607.4	10142.9	13370.2	17036.3	18945.5	20012.6	19886.2	21518.4	21617.0	16575.2
65°	7146.2	7166.6	8581.3	11903.5	16433.9	19928.9	21464.5	20934.7	22340.1	22407.0	16513.9
67.5°	5333.6	5530.7	6601.5	9356.6	13881.5	19088.7	21934.8	20962.6	21821.4	21635.5	15203.3
70°	3435.5	3586.1	4474.7	6488.1	10009.1	15930.1	20375.1	19525.5	19151.9	18739.2	12444.4
72.5°	1585.8	1779.1	2658.4	3706.9	5935.9	11347.6	16539.9	15863.2	13784.8	12766.0	7910.2
75°	691.6	739.9	1312.5	1955.7	2783.0	6001.0	10905.1	9847.4	6225.9	5686.8	3166.0
77.5°	422.0	453.6	687.8	1048.5	1093.1	2286.6	5874.6	4296.2	1924.1	1697.3	858.9
80°	286.3	321.6	500.1	548.4	373.7	637.7	2204.8	1147.0	388.5	371.8	184.0
82.5°	139.4	176.6	369.9	306.7	161.7	204.5	641.4	245.4	113.4	106.0	65.1
85°	20.4	35.3	208.2	200.8	72.5	48.3	113.4	61.3	39.0	37.2	29.7
87.5°	0.0	0.0	70.6	31.6	7.4	7.4	13.0	13.0	14.9	13.0	14.9
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°	4816.8	4816.8	4816.8	4816.8	4816.8	4816.8	4816.8	4816.8	4816.8	4816.8	4816.8
2.5°	4854.0	4863.3	4827.9	4777.7	4723.8	4669.9	4593.7	4524.9	4484.0	4508.2	4448.7
5°	4941.3	4933.9	4840.9	4688.5	4485.9	4242.3	4000.7	3794.3	3727.4	3627.0	3615.8
7.5°	5062.2	5041.7	4844.7	4495.2	4037.8	3580.5	3134.3	2838.8	2669.6	2526.4	2530.2
10°	5231.3	5171.9	4801.9	4155.0	3402.0	2712.3	2143.5	1753.1	1583.9	1530.0	1487.2
12.5°	5406.1	5290.8	4682.9	3695.8	2649.1	1853.5	1303.2	1065.2	961.1	927.7	923.9
15°	5562.3	5380.1	4474.7	3143.6	1926.0	1184.2	888.6	810.5	797.5	799.4	797.5
17.5°	5716.6	5450.7	4186.6	2558.0	1308.8	849.6	764.1	745.5	751.1	758.5	756.6
20°	5844.8	5465.6	3818.5	1952.0	925.8	745.5	717.6	713.9	719.4	725.0	725.0
22.5°	5984.3	5476.7	3381.6	1351.5	756.6	693.4	678.6	678.6	686.0	693.4	695.3
25°	6088.4	5415.4	2859.2	970.4	667.4	643.2	635.8	637.7	645.1	648.8	646.9
27.5°	6105.1	5242.5	2305.2	743.6	606.0	581.9	574.4	581.9	572.6	578.2	574.4
30°	6120.0	5023.1	1743.8	626.5	550.3	513.1	501.9	490.8	483.4	474.1	472.2
32.5°	6166.4	4764.7	1273.4	563.3	498.2	457.3	431.3	399.7	375.5	368.1	366.2
35°	6186.9	4454.3	935.1	513.1	451.7	407.1	360.7	316.0	280.7	267.7	277.0
37.5°	6265.0	4153.1	725.0	475.9	410.8	355.1	295.6	239.8	206.4	198.9	202.6
40°	6424.9	3825.9	607.9	444.3	375.5	306.7	234.2	180.3	158.0	150.6	148.7
42.5°	6681.4	3500.6	541.0	414.6	340.2	258.4	184.0	141.3	122.7	117.1	117.1
45°	6993.7	3188.3	494.5	383.0	303.0	208.2	145.0	113.4	102.2	98.5	98.5
47.5°	7404.6	2915.0	455.5	351.4	262.1	165.5	117.1	98.5	91.1	93.0	94.8
50°	7821.0	2712.3	412.7	316.0	215.6	135.7	100.4	87.4	85.5	87.4	87.4
52.5°	8135.2	2593.4	355.1	267.7	169.2	113.4	89.2	81.8	79.9	76.2	76.2
55°	8559.0	2567.3	282.6	217.5	133.9	94.8	79.9	74.4	68.8	65.1	63.2
57.5°	9103.7	2597.1	217.5	169.2	104.1	78.1	70.6	61.3	53.9	46.5	46.5
60°	9442.1	2530.2	169.2	130.1	76.2	63.2	53.9	44.6	35.3	29.7	27.9
62.5°	9334.3	2247.6	133.9	96.7	53.9	46.5	35.3	29.7	20.4	14.9	13.0
65°	8778.4	1814.4	107.8	66.9	39.0	27.9	18.6	18.6	9.3	1.9	0.0
67.5°	7683.4	1344.1	85.5	44.6	22.3	13.0	9.3	5.6	0.0	0.0	0.0
70°	6253.8	970.4	66.9	27.9	13.0	9.3	3.7	1.9	0.0	0.0	0.0
72.5°	3970.9	555.9	52.1	16.7	9.3	3.7	0.0	0.0	0.0	0.0	0.0
75°	1535.6	217.5	35.3	11.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	435.0	102.2	20.4	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	113.4	44.6	11.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	53.9	18.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.6	7.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.9	1.9	0.0	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)