

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: P454683

Luminaire Tested: **GALN-SA5D-740-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454683  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5D-740-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28025 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

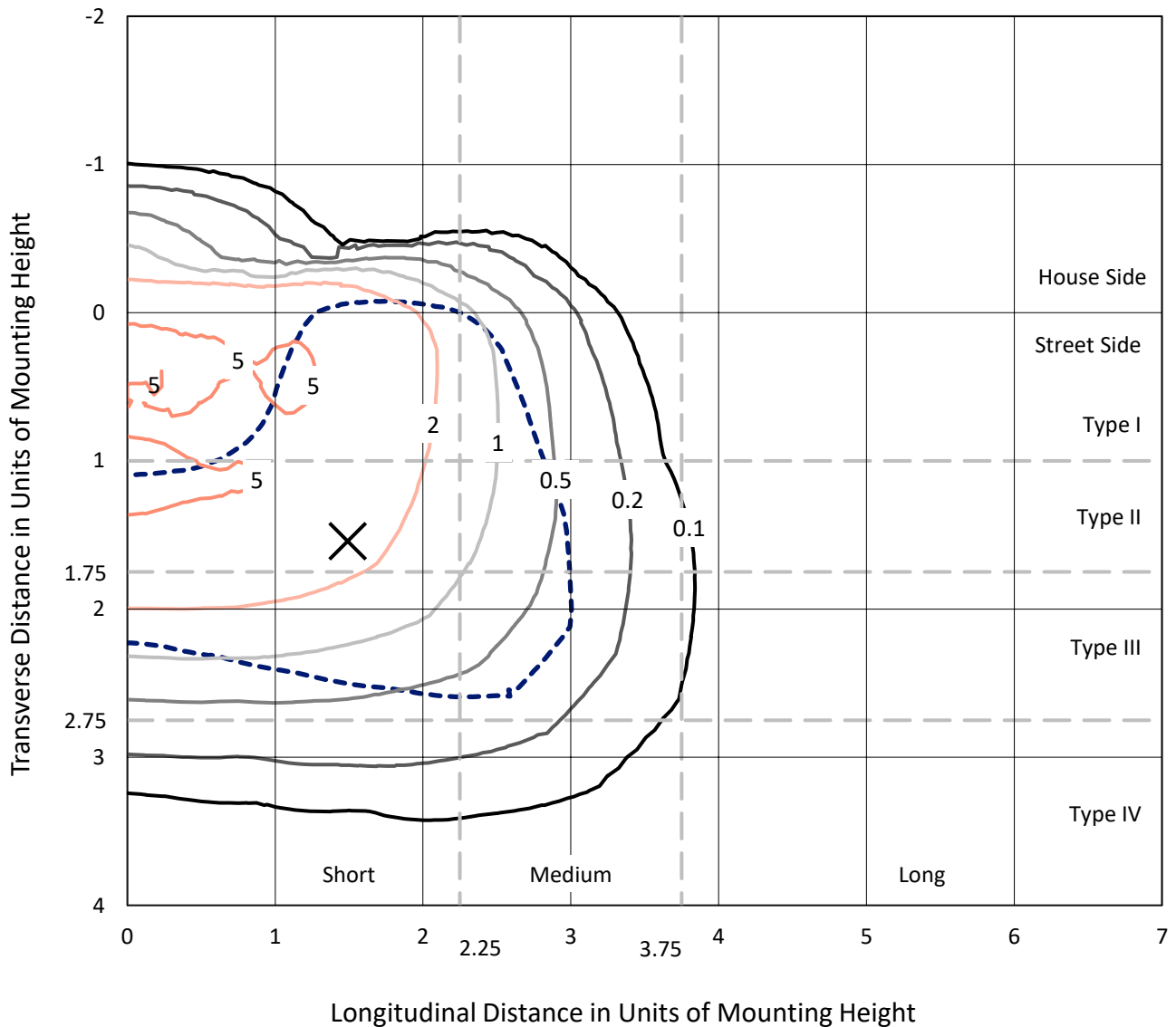
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

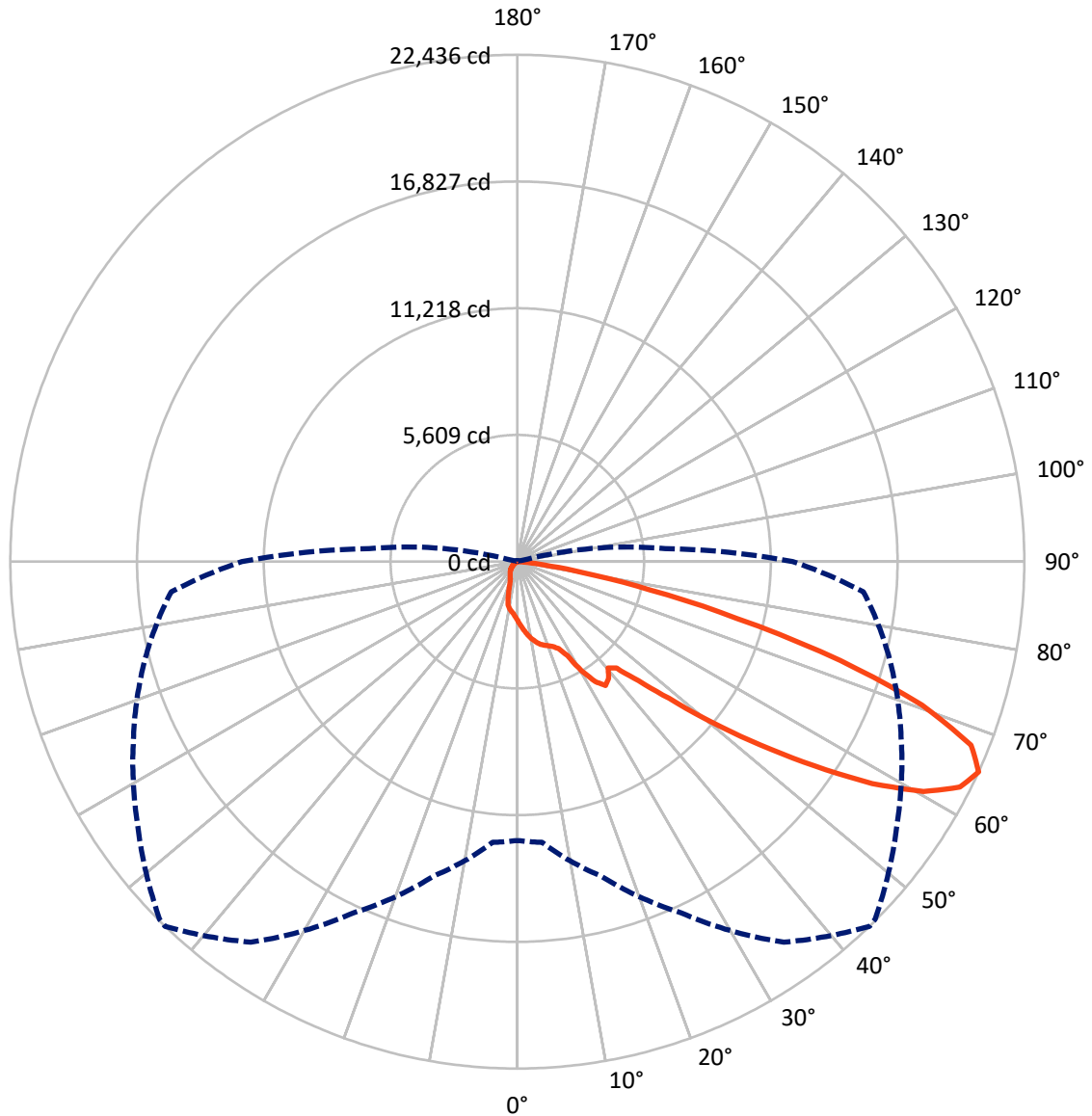
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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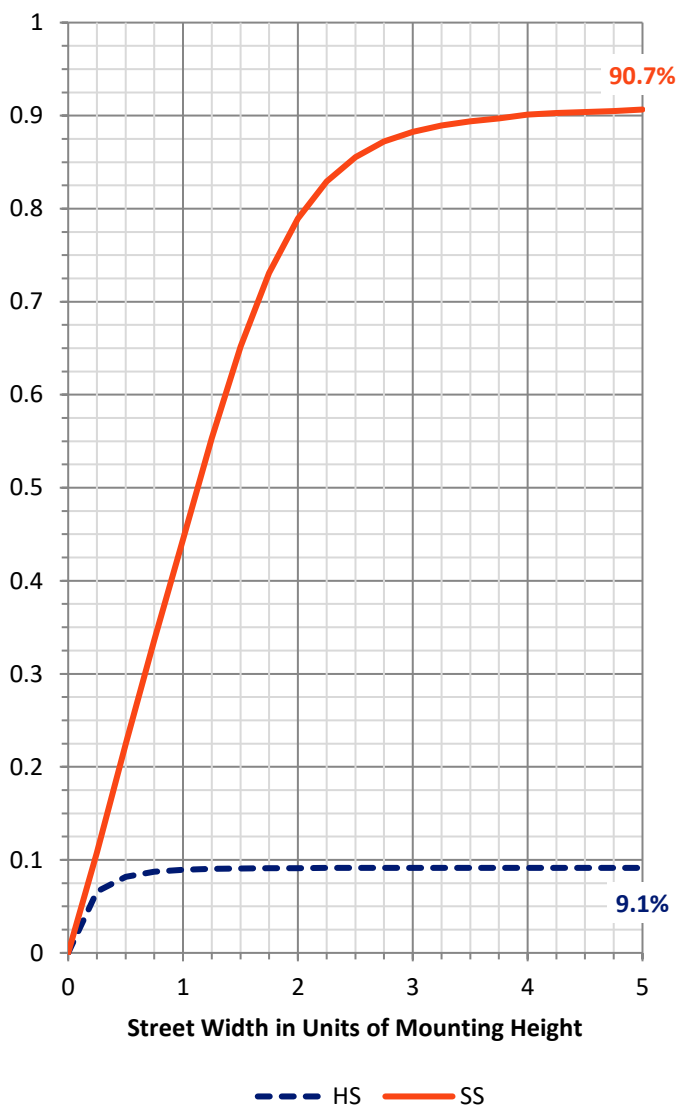
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2582.1	0.0	2582.1
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	25442.9	0.0	25442.9
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	28025.0	0.0	28025.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.4	0.9
10°-20°	780.8	2.8
20°-30°	1323.9	4.7
30°-40°	2201.2	7.9
40°-50°	3843.4	13.7
50°-60°	7508.6	26.8
60°-70°	8711.7	31.1
70°-80°	3172.4	11.3
80°-90°	223.5	0.8
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°	28025.0	100.0
0°-180°	28025.0	100.0

**Coefficient of Utilization**



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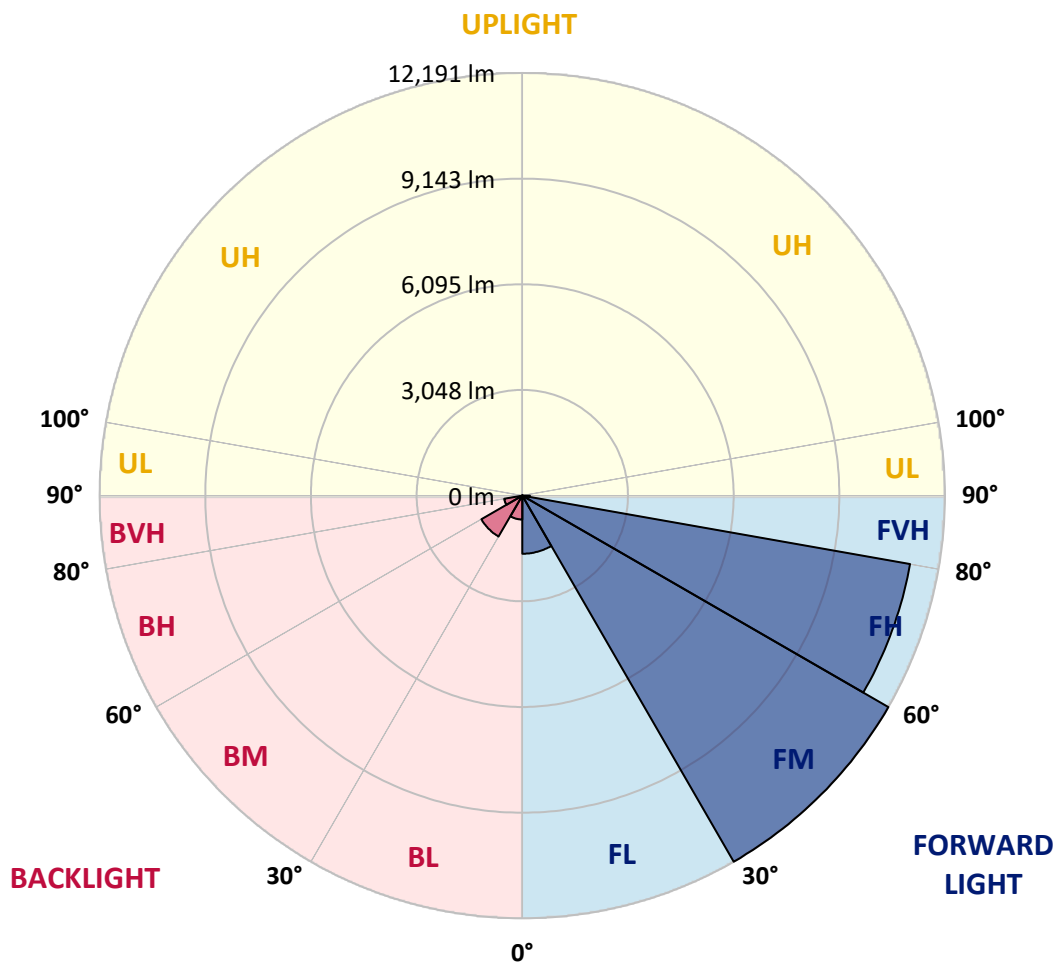
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1676.2	6.0			
FM (30°-60°)	12190.9	43.5			
FH (60°-80°)	11355.4	40.5			G4/12000
FVH (80°-90°)	220.5	0.8			G2/225
BL (0°-30°)	688.0	2.5	B2/1000		
BM (30°-60°)	1362.3	4.9	B2/2500		
BH (60°-80°)	528.8	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.0	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°	44°	45°	55°	65°	75°	85°
0°	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3
2.5°	2935.9	2923.1	2916.7	2882.4	2856.7	2824.6	2824.6	2783.9	2736.8	2685.4	2638.3
5°	3263.6	3242.2	3214.3	3184.3	3124.4	3038.7	3038.7	2953.1	2854.6	2766.8	2670.4
7.5°	3578.4	3559.1	3512.0	3454.2	3355.7	3265.7	3259.3	3135.1	3017.3	2884.5	2747.5
10°	3854.6	3839.6	3798.9	3687.6	3584.8	3467.0	3464.9	3325.7	3188.6	3025.9	2856.7
12.5°	4047.3	4049.5	3996.0	3888.9	3756.1	3644.8	3636.2	3499.1	3355.7	3180.1	2972.3
15°	4184.4	4184.4	4128.7	4008.8	3888.9	3790.4	3781.8	3661.9	3514.1	3323.5	3098.7
17.5°	4222.9	4235.8	4175.8	4068.8	3972.4	3886.7	3884.6	3784.0	3666.2	3482.0	3227.2
20°	4208.0	4220.8	4173.7	4090.2	4023.8	3974.5	3968.1	3927.4	3818.2	3644.8	3364.2
22.5°	4175.8	4188.7	4154.4	4105.2	4073.0	4088.0	4077.3	4111.6	4053.8	3843.9	3527.0
25°	4182.3	4195.1	4169.4	4141.6	4169.4	4261.5	4289.3	4437.1	4385.7	4096.6	3702.6
27.5°	4383.6	4409.3	4372.9	4385.7	4484.2	4698.4	4751.9	5006.7	4779.7	4417.8	3976.7
30°	4831.1	4814.0	4745.5	4807.6	5150.2	5604.2	5589.2	5548.5	5193.0	4788.3	4302.2
32.5°	5238.0	5223.0	5218.7	5486.4	6107.4	6328.0	6317.3	5923.3	5563.5	5212.3	4623.4
35°	5402.9	5345.1	5332.2	5981.1	7019.7	6728.5	6662.1	6077.4	6013.2	5674.9	4951.0
37.5°	5899.7	5859.0	5659.9	6062.5	6655.6	6559.3	6507.9	6343.0	6492.9	6083.9	5321.5
40°	6923.3	6809.8	6629.9	6235.9	6139.6	6180.2	6231.6	6683.5	7060.4	6642.8	5816.2
42.5°	8195.3	8169.6	7835.6	7101.1	6379.4	6435.1	6501.5	7394.4	7876.3	7484.4	6623.5
45°	9722.2	9758.6	9276.8	8409.5	7463.0	7510.1	7606.4	8443.8	8981.3	8792.8	7893.4
47.5°	11109.9	11082.0	10919.3	10017.7	9144.0	9039.1	9195.4	9790.7	10510.3	10540.2	9469.5
50°	12506.1	12653.9	12411.9	12058.5	11409.7	11189.1	11131.3	11422.5	12518.9	12375.5	11362.6
52.5°	14512.6	14589.7	14135.7	14045.8	14193.6	13478.3	13420.5	13491.2	14472.0	13979.4	12780.2
55°	15774.0	15729.0	15559.8	16262.2	16846.8	15953.8	15881.0	15596.2	16093.0	15112.2	14144.3
57.5°	16172.3	16236.5	16630.5	17900.4	19283.8	18525.7	18393.0	17583.5	17262.3	16168.0	15399.2
60°	15994.5	16112.3	16962.5	18851.2	20770.0	20656.5	20543.0	19183.2	18101.7	17050.3	16279.3
62.5°	14728.9	14893.8	16253.6	18682.1	21273.2	21982.0	21840.7	20181.1	18660.6	17478.6	16433.5
65°	12343.3	12465.4	14418.4	17146.6	20558.0	22436.0	22384.6	20493.7	18748.4	17086.7	15377.8
67.5°	8799.2	9214.7	11024.2	14450.5	18442.2	21660.8	21748.6	20119.0	17924.0	15392.8	12735.2
70°	5531.4	5814.0	7111.8	10345.4	14784.6	19003.3	19292.4	18403.7	15555.5	11998.6	8525.1
72.5°	2638.3	2848.1	3773.2	6548.6	10435.3	14951.6	15180.8	15108.0	12028.6	7559.3	4398.5
75°	1175.7	1254.9	1801.0	3342.8	6737.0	10049.8	10643.0	10741.5	7516.5	3698.3	1711.0
77.5°	599.6	601.7	843.7	1618.9	3364.2	5996.1	6113.9	6458.6	4075.2	1629.6	595.3
80°	319.1	340.5	447.6	764.5	1745.3	2953.1	2938.1	3229.3	1807.4	798.8	199.2
82.5°	143.5	158.5	252.7	400.5	852.3	1120.0	1207.8	1321.3	775.2	509.7	87.8
85°	42.8	51.4	124.2	201.3	308.4	323.4	361.9	466.8	439.0	361.9	45.0
87.5°	6.4	6.4	51.4	55.7	45.0	57.8	60.0	66.4	141.3	132.8	23.6
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°	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3
2.5°	2612.6	2597.6	2544.0	2499.1	2460.5	2437.0	2409.1	2392.0	2383.4	2377.0	2379.2
5°	2623.3	2586.9	2494.8	2422.0	2366.3	2306.3	2265.7	2242.1	2231.4	2214.3	2214.3
7.5°	2683.2	2625.4	2496.9	2385.6	2289.2	2207.8	2130.7	2102.9	2083.6	2079.4	2075.1
10°	2768.9	2696.1	2520.5	2366.3	2229.3	2117.9	2008.7	1912.3	1837.4	1792.4	1786.0
12.5°	2876.0	2771.0	2556.9	2353.5	2177.9	1980.8	1691.7	1496.9	1366.2	1325.6	1332.0
15°	2974.5	2861.0	2593.3	2342.8	2083.6	1642.5	1314.9	1092.1	1025.8	1019.3	1021.5
17.5°	3092.3	2957.3	2636.1	2327.8	1824.5	1254.9	976.5	916.5	929.4	950.8	948.7
20°	3214.3	3060.1	2687.5	2237.8	1456.2	944.4	863.0	869.4	888.7	908.0	912.3
22.5°	3345.0	3177.9	2747.5	2021.5	1111.4	822.3	818.0	826.6	845.9	867.3	871.6
25°	3524.8	3325.7	2792.5	1738.9	841.6	760.2	768.8	783.8	800.9	824.5	828.7
27.5°	3756.1	3524.8	2816.0	1370.5	728.1	704.5	706.7	728.1	749.5	770.9	770.9
30°	4055.9	3762.5	2768.9	1036.5	672.4	651.0	642.4	655.3	683.1	704.5	706.7
32.5°	4323.6	3987.4	2644.7	792.3	631.7	601.7	580.3	582.5	593.2	606.0	608.2
35°	4591.3	4205.8	2432.7	666.0	588.9	554.6	522.5	505.4	496.8	490.4	496.8
37.5°	4933.9	4477.8	2150.0	606.0	552.5	509.7	464.7	428.3	398.3	379.0	383.3
40°	5375.1	4854.7	1816.0	567.5	518.2	466.8	406.9	359.8	308.4	291.2	282.7
42.5°	6103.1	5426.4	1464.8	535.4	484.0	421.9	346.9	282.7	235.6	218.4	222.7
45°	7253.1	6148.1	1128.5	501.1	449.7	372.6	291.2	222.7	184.2	175.6	179.9
47.5°	8777.8	7081.8	869.4	462.6	406.9	319.1	229.1	175.6	152.0	149.9	147.8
50°	10212.6	7951.2	726.0	419.7	355.5	265.5	188.4	147.8	132.8	130.6	130.6
52.5°	11510.3	8574.4	591.0	370.5	299.8	218.4	158.5	130.6	117.8	111.4	111.4
55°	12664.6	8981.3	479.7	310.5	235.6	173.5	137.1	117.8	102.8	94.2	92.1
57.5°	13536.1	9030.5	359.8	248.4	175.6	134.9	117.8	102.8	85.7	75.0	70.7
60°	13908.7	8604.4	265.5	188.4	130.6	107.1	94.2	83.5	64.2	53.5	51.4
62.5°	13534.0	7775.6	197.0	143.5	100.6	79.2	66.4	62.1	45.0	32.1	30.0
65°	12191.3	6578.5	156.3	109.2	75.0	57.8	42.8	40.7	27.8	15.0	12.8
67.5°	9767.2	5152.3	124.2	81.4	53.5	38.5	27.8	25.7	15.0	4.3	4.3
70°	6351.6	3293.6	100.6	60.0	34.3	25.7	17.1	12.8	8.6	2.1	0.0
72.5°	3141.5	1539.7	81.4	47.1	23.6	12.8	6.4	4.3	6.4	0.0	0.0
75°	1218.5	548.2	60.0	32.1	12.8	6.4	4.3	0.0	2.1	0.0	0.0
77.5°	404.7	182.0	36.4	17.1	8.6	4.3	0.0	0.0	0.0	0.0	0.0
80°	149.9	70.7	19.3	10.7	4.3	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	60.0	27.8	12.8	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.0	17.1	8.6	6.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.4	12.8	8.6	6.4	4.3	2.1	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)