

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: P459099

Luminaire Tested: **GALN-SA6A-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20675 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

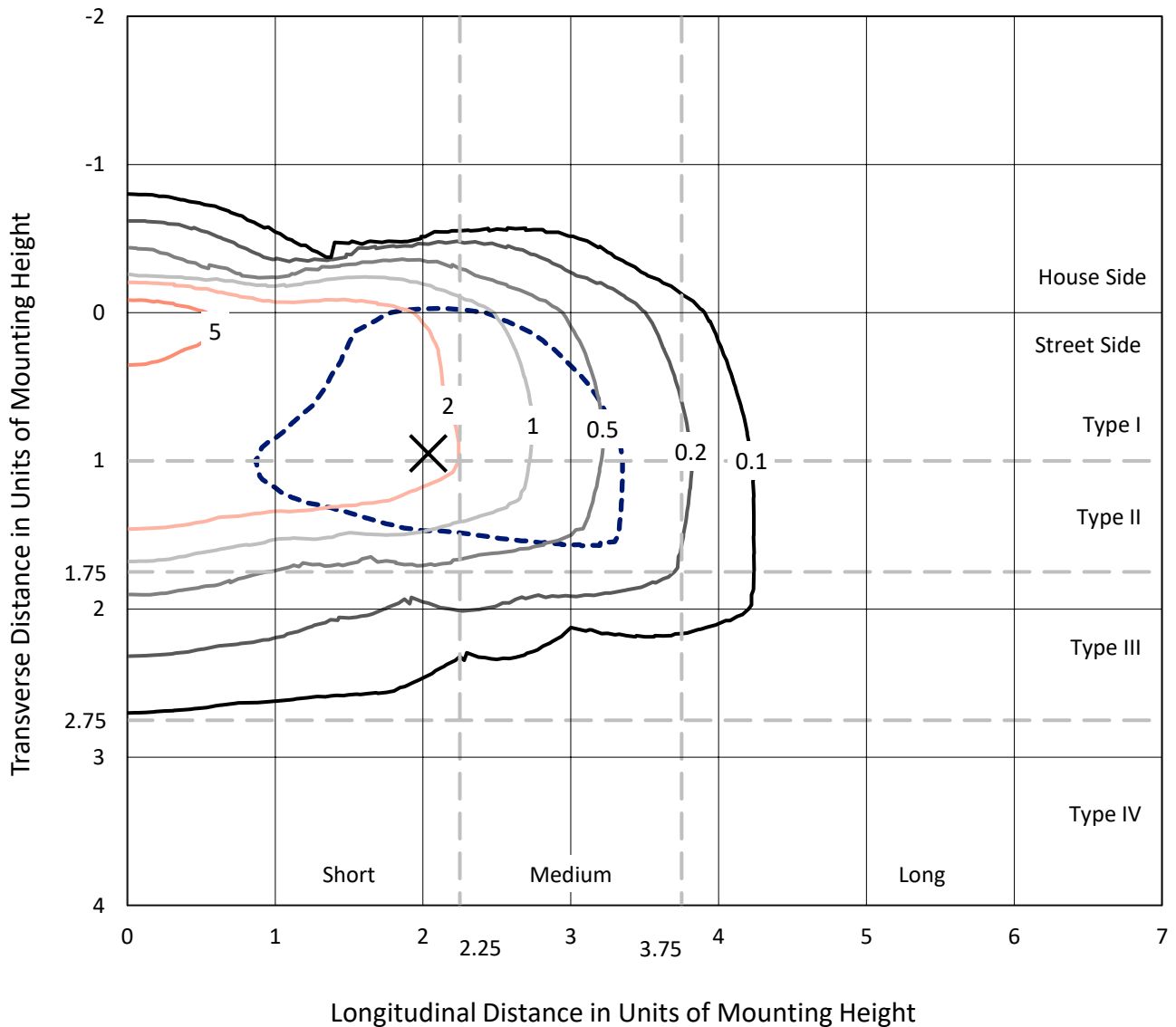
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

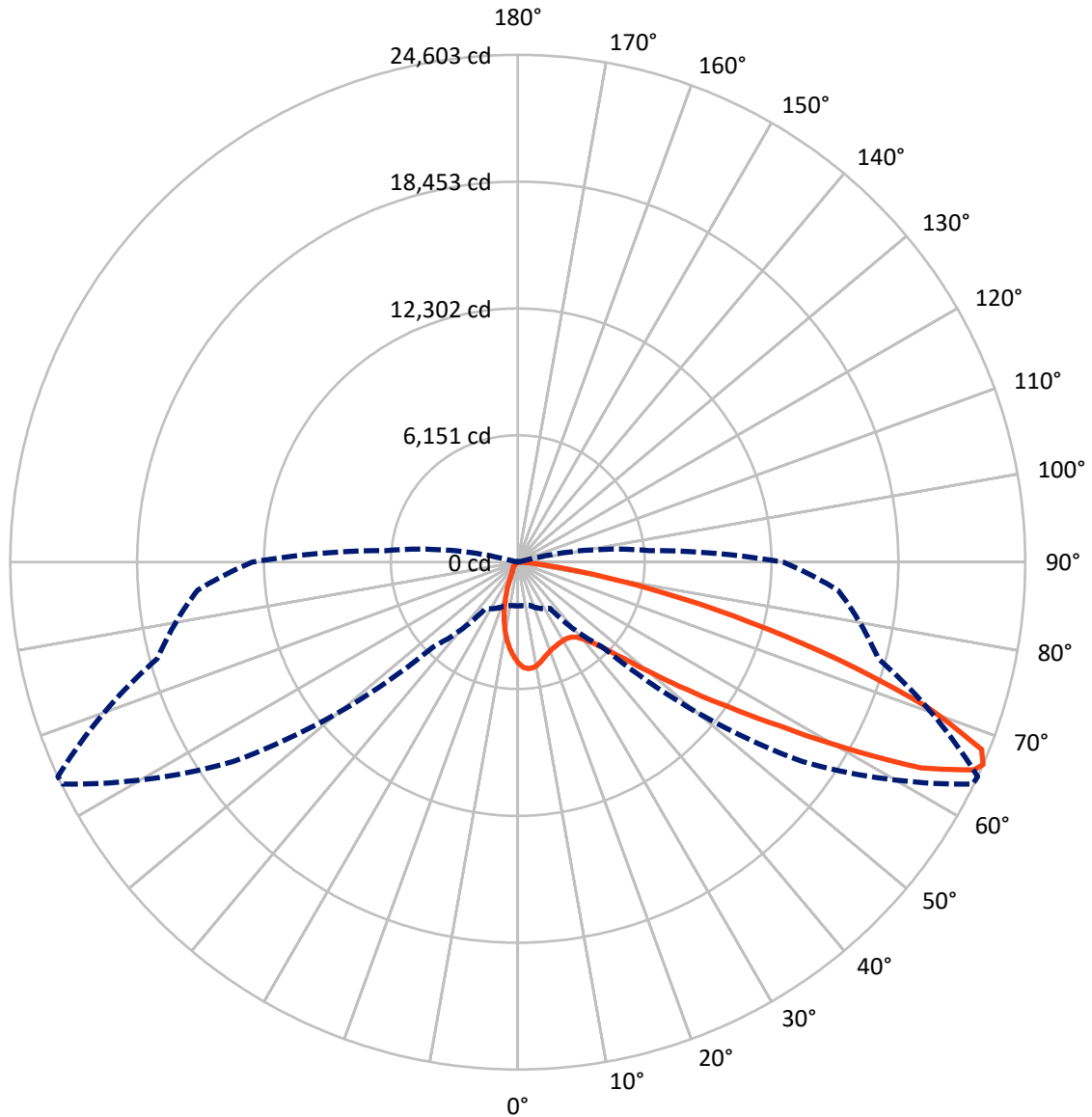
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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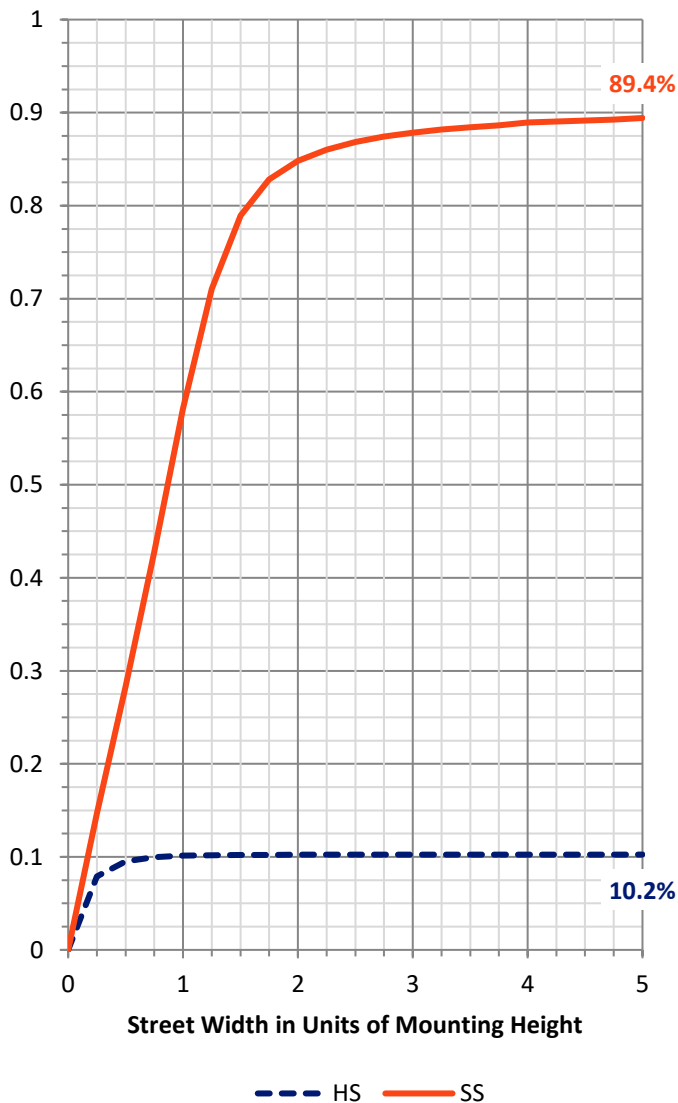
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2138.1	0.0	2138.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	18536.9	0.0	18536.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	20675.0	0.0	20675.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.0	1.9
10°-20°	873.7	4.2
20°-30°	1251.5	6.1
30°-40°	1828.0	8.8
40°-50°	3065.2	14.8
50°-60°	5115.3	24.7
60°-70°	5429.7	26.3
70°-80°	2459.1	11.9
80°-90°	251.6	1.2
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°	20675.0	100.0
0°-180°	20675.0	100.0



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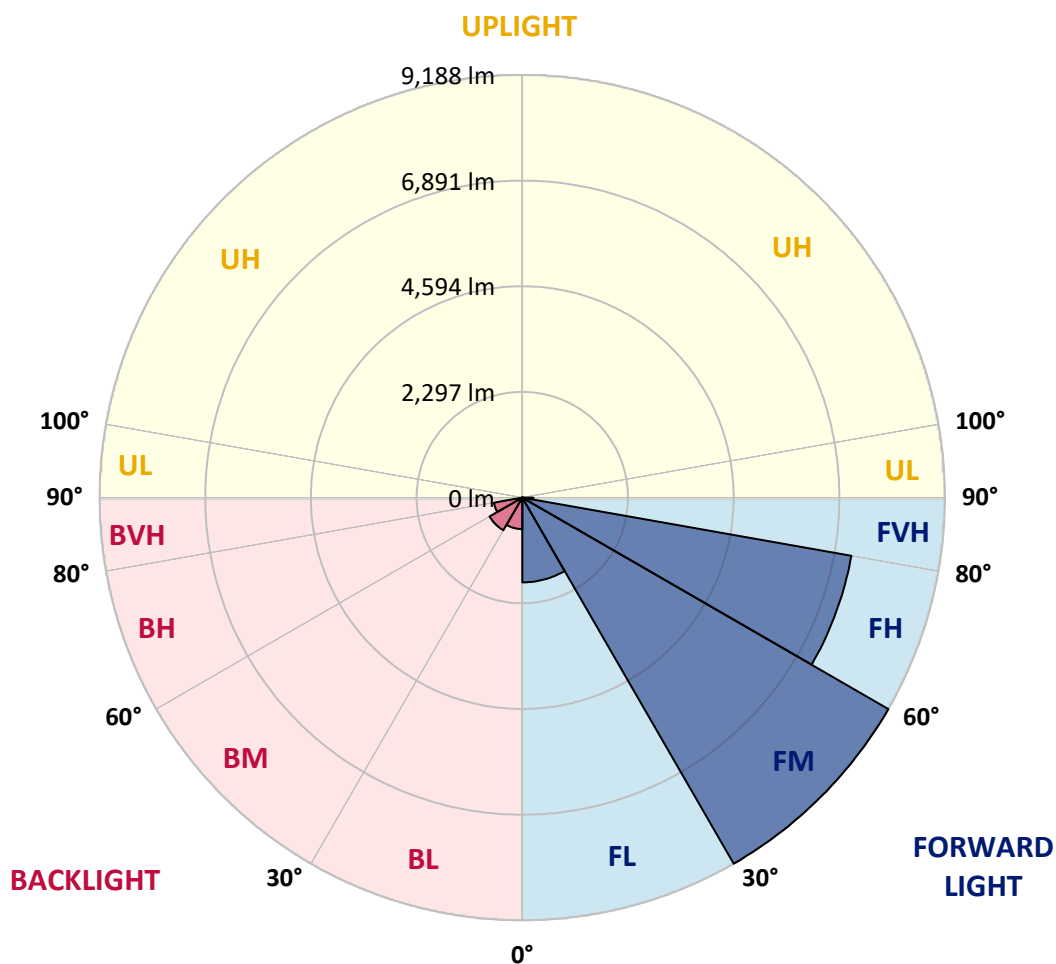
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1842.2	8.9			
FM (30°-60°)	9188.4	44.4			
FH (60°-80°)	7262.7	35.1			G3/7500
FVH (80°-90°)	243.6	1.2			G3/500
BL (0°-30°)	684.0	3.3	B2/1000		
BM (30°-60°)	820.0	4.0	B1/1000		
BH (60°-80°)	626.2	3.0	B2/1000		G2/1000
BVH (80°-90°)	8.0	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4902.8	4902.8	4902.8	4902.8	4902.8	4902.8	4902.8	4902.8	4902.8	4902.8	4902.8
2.5°	5166.7	5172.3	5179.3	5189.1	5196.1	5175.1	5145.8	5112.3	5105.3	5034.1	4947.5
5°	4890.2	4898.6	4960.1	4993.6	5069.0	5137.4	5180.7	5186.3	5183.5	5116.5	4978.2
7.5°	4496.4	4520.2	4580.2	4638.9	4779.9	4909.8	5063.4	5170.9	5177.9	5159.7	4988.0
10°	4176.7	4192.0	4222.8	4338.7	4456.0	4654.2	4869.3	5071.8	5088.5	5161.1	4979.6
12.5°	3926.7	3949.1	3986.8	4076.1	4217.2	4404.3	4648.7	4921.0	4955.9	5134.6	4955.9
15°	3752.2	3763.3	3801.0	3889.0	4025.9	4199.0	4446.2	4763.2	4793.9	5099.7	4951.7
17.5°	3669.8	3682.3	3708.9	3778.7	3891.8	4052.4	4294.0	4636.1	4675.2	5077.4	4967.0
20°	3692.1	3703.3	3704.7	3741.0	3817.8	3953.2	4182.3	4517.4	4567.7	5063.4	4992.2
22.5°	3819.2	3820.6	3803.8	3787.1	3813.6	3911.4	4113.8	4442.0	4493.7	5060.6	5021.5
25°	4009.1	4013.3	3985.4	3926.7	3873.6	3923.9	4098.5	4393.1	4439.2	5053.6	5039.7
27.5°	4271.6	4270.2	4261.9	4164.1	4013.3	3979.8	4111.0	4366.6	4405.7	5034.1	5046.6
30°	4638.9	4627.7	4609.6	4499.2	4268.8	4115.2	4164.1	4349.8	4386.1	5006.1	5028.5
32.5°	5000.6	5042.4	5039.7	4934.9	4647.3	4356.8	4274.4	4372.2	4398.7	4988.0	5002.0
35°	5422.3	5420.9	5528.4	5489.3	5152.8	4665.4	4462.9	4446.2	4467.1	5000.6	4989.4
37.5°	5813.3	5849.6	6017.1	6057.6	5750.4	5101.1	4729.6	4605.4	4612.4	5085.7	5020.1
40°	6300.6	6370.4	6620.4	6755.8	6484.9	5747.6	5123.4	4897.2	4898.6	5295.2	5136.0
42.5°	6929.0	7039.3	7272.5	7498.7	7353.5	6512.9	5714.1	5359.4	5356.6	5663.8	5401.3
45°	7692.8	7769.6	8035.0	8393.8	8301.7	7581.1	6574.3	6075.8	6039.5	6268.5	5871.9
47.5°	8351.9	8456.7	8726.2	9135.3	9554.3	8885.4	7602.1	7060.3	7036.5	7230.6	6679.0
50°	8639.6	8731.8	9015.2	9589.2	10604.4	10597.4	9132.5	8497.2	8456.7	8561.4	7927.4
52.5°	8324.0	8410.6	8696.9	9411.8	11098.7	12683.6	11350.0	10299.9	10251.1	10117.0	9418.8
55°	7243.2	7314.4	7737.5	8558.6	10908.8	14074.4	14405.4	12527.2	12337.3	11816.4	11107.1
57.5°	5767.2	5730.9	5993.4	6947.2	9794.4	14540.8	17541.7	15301.9	14962.6	13285.5	12535.6
60°	3996.5	4108.2	4214.4	4842.8	7364.7	13732.3	19492.5	18790.1	18343.3	14730.8	13904.1
62.5°	2938.1	3012.1	3081.9	3372.3	4630.5	10964.6	19837.4	22373.3	21976.7	16265.4	15209.7
65°	2323.6	2329.2	2357.1	2643.4	3051.2	7130.1	18179.9	24393.9	24292.0	17742.8	15739.0
66°	2117.0	2118.4	2161.6	2468.9	2738.4	5806.3	16851.9	24547.5	24603.4	18097.5	15584.0
67.5°	1850.2	1844.7	1907.5	2218.9	2494.0	4186.4	14475.2	23924.7	24255.7	18369.8	15026.8
70°	1434.1	1427.1	1503.9	1861.4	2297.1	2792.8	9621.3	20542.6	21076.1	17812.6	13295.2
72.5°	955.1	960.7	1092.0	1469.0	2192.4	2459.1	5788.1	15627.3	16381.3	14709.8	10459.1
75°	557.2	566.9	716.4	1092.0	1903.3	2344.6	3276.0	11143.4	11625.1	10157.5	6515.7
77.5°	291.9	296.0	400.8	720.5	1459.3	2177.0	2182.6	7118.9	7345.1	4936.3	2579.2
80°	155.0	150.8	215.0	434.3	1004.0	1911.7	1770.7	3768.9	3918.3	1466.2	652.1
82.5°	58.6	64.2	114.5	284.9	593.5	1372.7	1524.9	1665.9	1614.3	322.6	273.7
85°	11.2	14.0	48.9	169.0	298.8	573.9	1124.1	816.9	756.9	121.5	157.8
87.5°	1.4	2.8	14.0	40.5	43.3	194.1	332.3	226.2	195.5	44.7	65.6
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°	4902.8	4902.8	4902.8	4902.8	4902.8	4902.8	4902.8	4902.8	4902.8	4902.8	4902.8
2.5°	4905.6	4867.9	4742.2	4617.9	4490.9	4376.4	4298.2	4171.1	4139.0	4092.9	4066.4
5°	4895.8	4807.8	4566.3	4302.3	4056.6	3791.3	3588.8	3393.3	3288.6	3235.5	3215.9
7.5°	4867.9	4728.3	4351.2	3937.9	3544.1	3147.5	2802.6	2540.1	2371.1	2255.2	2177.0
10°	4812.0	4619.3	4101.3	3532.9	2938.1	2414.4	1977.3	1645.0	1388.0	1307.0	1309.8
12.5°	4754.8	4497.8	3822.0	3083.3	2346.0	1685.5	1221.9	959.3	836.5	796.0	787.6
15°	4701.7	4381.9	3548.3	2647.6	1746.9	1092.0	787.6	695.4	661.9	654.9	653.5
17.5°	4673.8	4274.4	3256.4	2149.1	1219.1	741.5	631.2	606.0	596.3	589.3	586.5
20°	4650.1	4180.9	2977.2	1682.7	833.7	607.4	565.5	541.8	525.1	518.1	513.9
22.5°	4633.3	4084.5	2688.1	1302.9	638.2	539.0	501.3	470.6	446.9	438.5	432.9
25°	4608.2	3978.4	2396.2	952.4	537.6	479.0	435.7	399.4	368.7	353.3	350.5
27.5°	4571.9	3858.3	2076.5	705.2	480.4	425.9	372.8	328.2	297.4	280.7	282.1
30°	4513.2	3732.6	1756.7	560.0	434.3	371.4	314.2	270.9	241.6	229.0	227.6
32.5°	4443.4	3580.4	1463.4	480.4	392.4	322.6	262.5	224.8	202.5	192.7	191.3
35°	4377.8	3426.8	1164.6	431.5	349.1	277.9	220.6	188.5	171.8	163.4	164.8
37.5°	4341.4	3289.9	907.7	392.4	314.2	238.8	189.9	162.0	146.6	139.6	138.2
40°	4365.2	3178.2	721.9	357.5	275.1	205.3	163.4	139.6	124.3	114.5	114.5
42.5°	4476.9	3129.4	582.3	324.0	238.8	177.3	142.4	120.1	103.3	93.6	95.0
45°	4817.6	3181.0	487.3	293.2	205.3	153.6	122.9	99.1	83.8	76.8	75.4
47.5°	5383.2	3375.1	421.7	261.1	175.9	131.3	103.3	82.4	67.0	61.4	60.0
50°	6371.8	3775.9	372.8	229.0	149.4	111.7	85.2	65.6	53.1	47.5	47.5
52.5°	7731.9	4650.1	337.9	192.7	125.7	95.0	69.8	53.1	41.9	37.7	36.3
55°	9153.5	5571.7	319.8	162.0	104.7	78.2	55.9	41.9	32.1	27.9	26.5
57.5°	10520.6	6295.0	298.8	131.3	83.8	60.0	43.3	32.1	22.3	19.5	18.2
60°	11831.8	6880.1	254.1	104.7	65.6	43.3	32.1	22.3	15.4	12.6	12.6
62.5°	13004.8	7220.9	199.7	83.8	50.3	30.7	20.9	16.8	11.2	8.4	8.4
65°	13141.6	6778.2	150.8	64.2	36.3	19.5	12.6	12.6	8.4	5.6	5.6
66°	12866.5	6402.6	132.7	58.6	32.1	16.8	11.2	9.8	7.0	4.2	4.2
67.5°	12252.1	5761.6	114.5	50.3	26.5	12.6	8.4	8.4	5.6	2.8	2.8
70°	10586.2	4705.9	90.8	37.7	19.5	9.8	5.6	5.6	4.2	2.8	2.8
72.5°	8068.5	3513.4	74.0	27.9	14.0	7.0	4.2	4.2	4.2	2.8	2.8
75°	4866.5	1892.1	57.3	20.9	12.6	5.6	2.8	4.2	5.6	4.2	2.8
77.5°	1793.0	643.7	44.7	16.8	9.8	5.6	2.8	2.8	5.6	4.2	4.2
80°	439.9	167.6	32.1	14.0	9.8	5.6	2.8	2.8	5.6	5.6	5.6
82.5°	203.9	71.2	22.3	12.6	9.8	5.6	2.8	2.8	4.2	5.6	5.6
85°	117.3	33.5	18.2	14.0	9.8	5.6	2.8	2.8	4.2	5.6	5.6
87.5°	47.5	16.8	16.8	14.0	11.2	7.0	2.8	2.8	2.8	4.2	4.2
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)