

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: P455088

Luminaire Tested: **GALN-SA6B-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28157 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

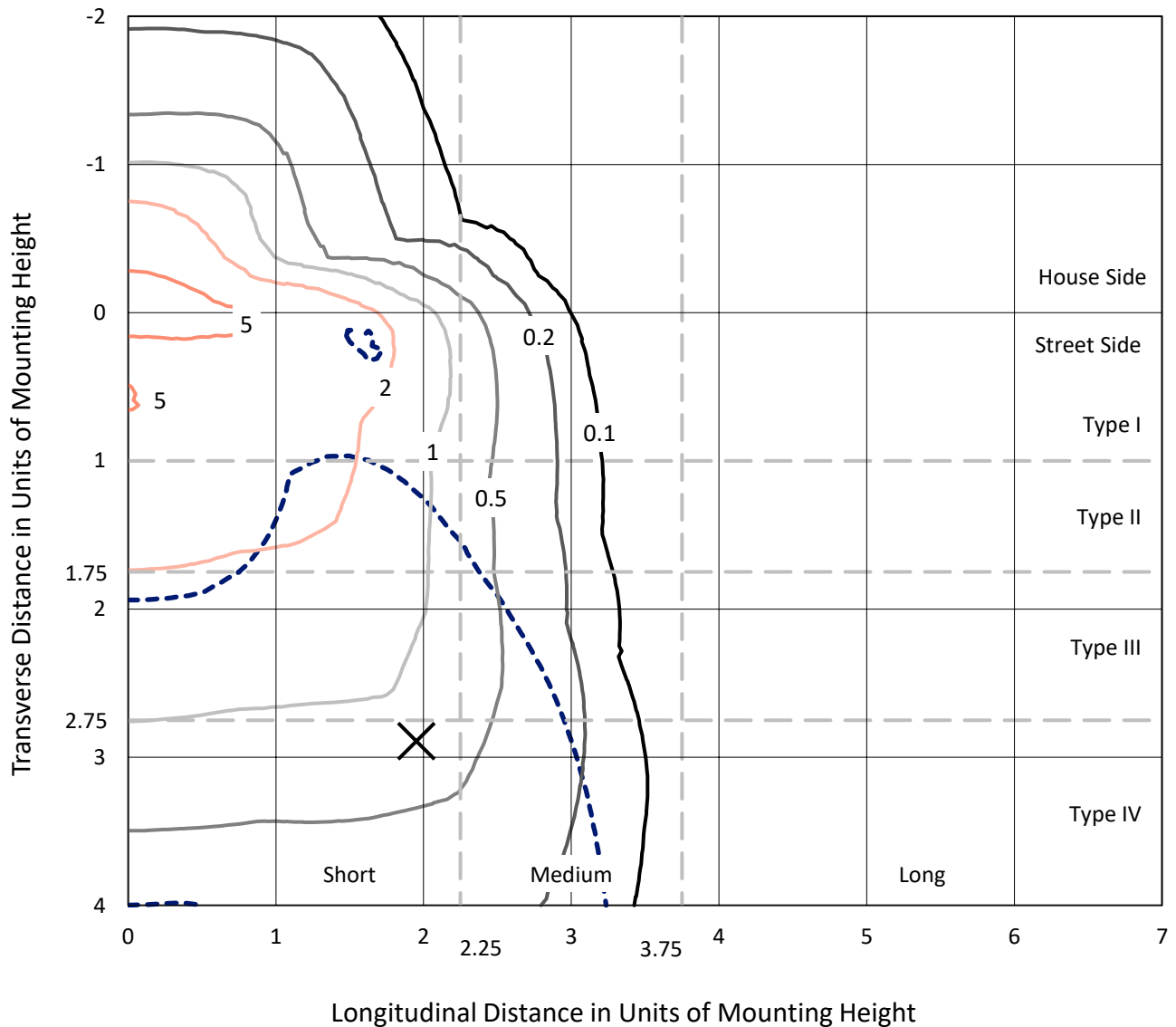
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

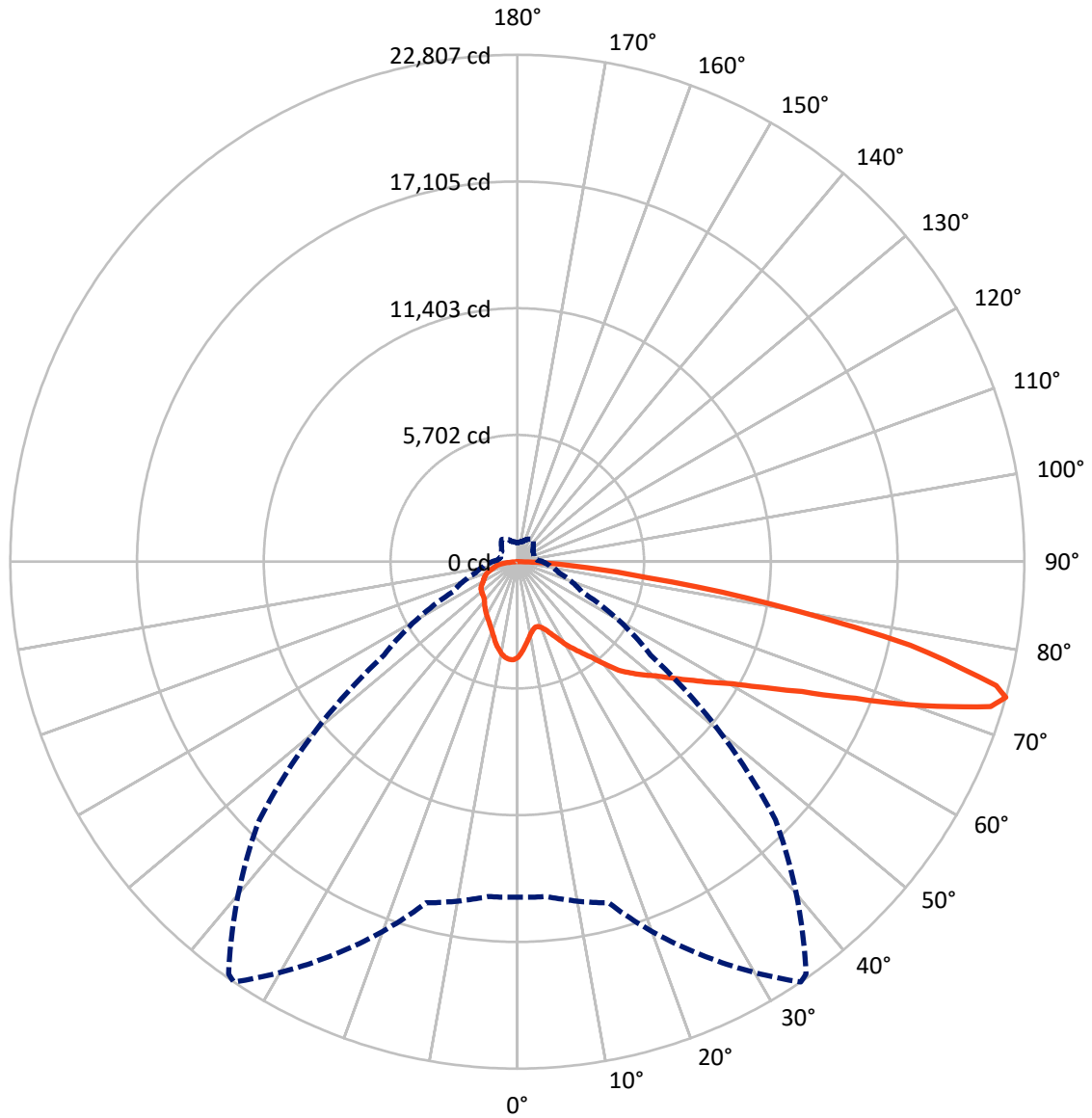
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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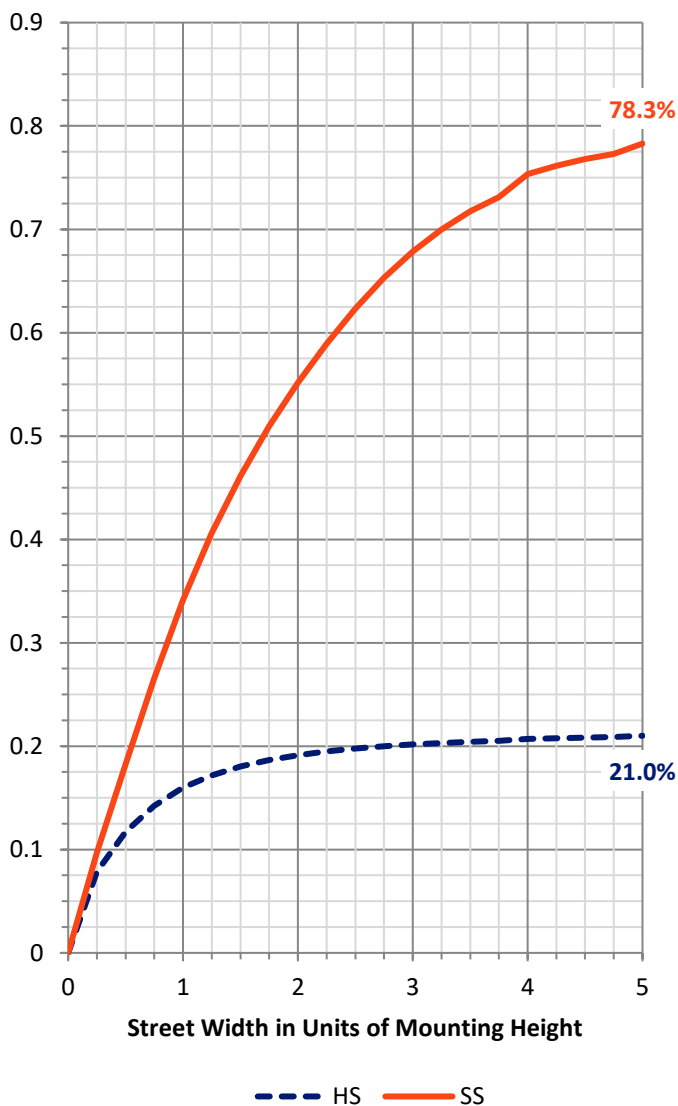
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5992.0	0.0	5992.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	22165.0	0.0	22165.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	28157.0	0.0	28157.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.0	1.4
10°-20°	1070.3	3.8
20°-30°	1764.6	6.3
30°-40°	2643.2	9.4
40°-50°	3842.5	13.6
50°-60°	5367.0	19.1
60°-70°	6719.3	23.9
70°-80°	5556.3	19.7
80°-90°	802.8	2.9
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°	28157.0	100.0
0°-180°	28157.0	100.0

Coefficient of Utilization



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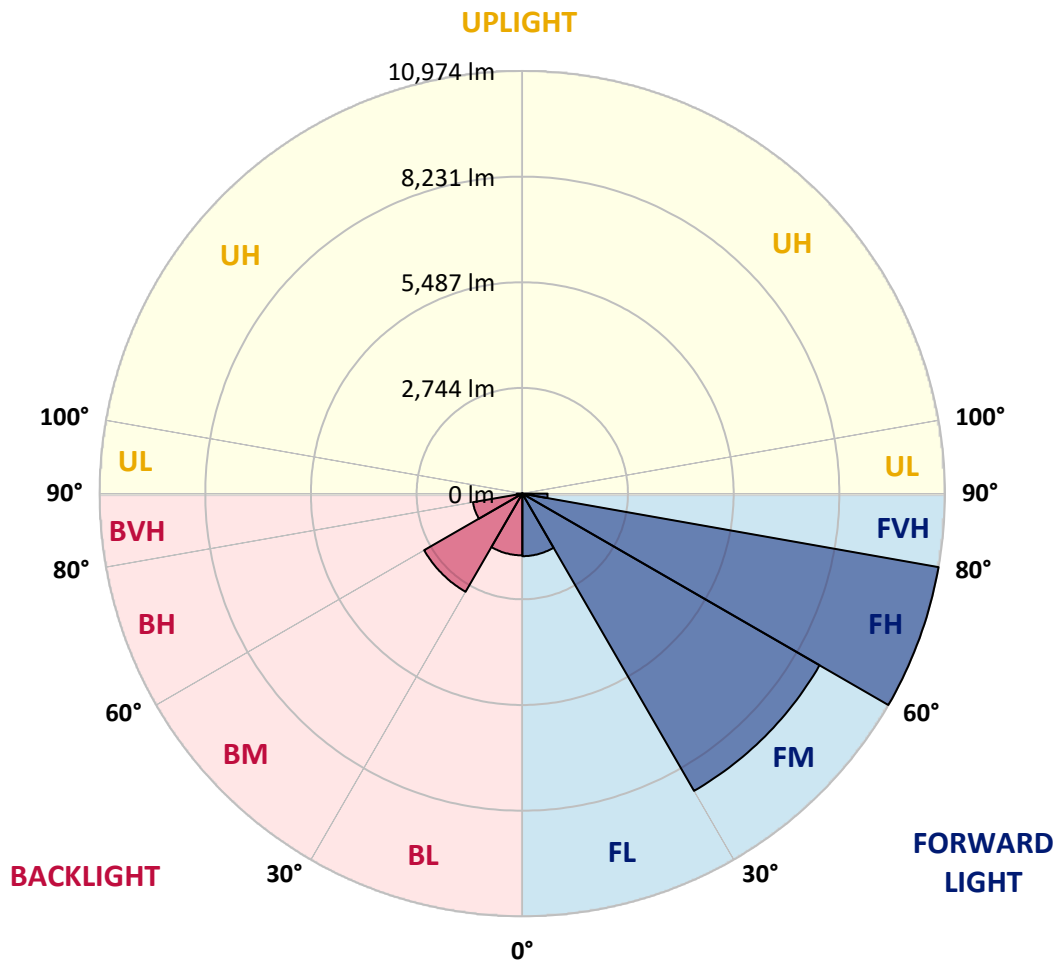
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1623.1	5.8			
FM	(30°-60°)	8910.0	31.6			
FH	(60°-80°)	10974.1	39.0			G4/12000
FVH	(80°-90°)	657.7	2.3			G4/750
BL	(0°-30°)	1602.8	5.7	B3/2500		
BM	(30°-60°)	2942.7	10.5	B3/5000		
BH	(60°-80°)	1301.4	4.6	B3/2500		G3/2500
BVH	(80°-90°)	145.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4299.0	4299.0	4299.0	4299.0	4299.0	4299.0	4299.0	4299.0	4299.0	4299.0	4299.0
2.5°	3973.0	3993.3	4004.2	4043.2	4052.6	4065.0	4097.8	4141.5	4197.6	4247.5	4291.2
5°	3642.3	3673.5	3692.2	3726.5	3793.6	3799.9	3887.2	3987.0	4100.9	4207.0	4294.3
7.5°	3328.8	3363.1	3378.7	3441.1	3530.0	3544.0	3671.9	3829.5	4019.8	4180.5	4314.6
10°	3093.2	3110.4	3144.7	3191.5	3297.6	3306.9	3473.8	3684.4	3930.9	4168.0	4348.9
12.5°	2965.3	2974.7	2982.5	3032.4	3136.9	3150.9	3325.7	3564.3	3860.7	4177.3	4405.1
15°	2984.0	2987.2	2952.8	2962.2	3046.4	3066.7	3239.9	3484.8	3817.0	4200.7	4489.3
17.5°	3141.6	3130.7	3046.4	3002.8	3062.0	3071.4	3222.7	3453.6	3796.7	4244.4	4576.7
20°	3389.6	3374.0	3228.9	3132.2	3166.5	3174.3	3278.9	3477.0	3817.0	4316.2	4712.4
22.5°	3698.5	3692.2	3472.3	3355.3	3353.7	3353.7	3408.3	3561.2	3877.9	4414.4	4854.3
25°	4130.6	4097.8	3810.8	3659.5	3617.4	3614.2	3608.0	3700.0	3955.8	4519.0	5022.8
27.5°	4573.6	4517.4	4261.6	4029.2	3938.7	3927.8	3887.2	3896.6	4055.7	4637.5	5214.7
30°	4971.3	4935.4	4695.2	4437.8	4330.2	4305.3	4192.9	4141.5	4222.6	4851.2	5520.4
32.5°	5275.5	5253.7	5066.5	4832.5	4673.4	4668.7	4504.9	4462.8	4483.1	5110.2	5869.8
35°	5522.0	5529.8	5434.6	5231.8	5049.3	5022.8	4913.6	4860.6	4801.3	5484.5	6309.7
37.5°	5858.9	5876.1	5869.8	5695.1	5472.0	5478.3	5453.3	5366.0	5208.4	5902.6	6797.9
40°	6230.1	6242.6	6241.1	6174.0	6057.0	6063.2	6053.9	5954.0	5718.5	6434.5	7340.8
42.5°	6743.3	6684.1	6529.6	6596.7	6665.3	6695.0	6758.9	6663.8	6340.9	7002.3	7850.9
45°	7317.4	7205.1	6855.7	6886.9	7141.1	7197.3	7549.8	7418.8	7016.3	7654.3	8451.4
47.5°	7679.3	7568.5	7273.7	7267.5	7604.4	7659.0	8282.9	8234.6	7630.9	8357.8	9184.5
50°	8002.2	7986.6	7654.3	7733.9	8063.0	8144.1	9081.6	9036.4	8243.9	9187.7	9983.2
52.5°	8481.0	8354.7	8089.5	8253.3	8688.5	8794.6	9874.0	9741.4	8807.1	9920.8	10758.5
55°	8696.3	8666.7	8651.1	8793.0	9390.5	9466.9	10644.6	10340.4	9287.5	10541.6	11348.1
57.5°	9271.9	9217.3	9371.7	9468.4	10217.2	10334.2	11449.5	10965.9	9708.7	11034.6	11635.1
60°	10017.5	9987.9	10129.8	10304.5	11140.6	11318.5	12366.7	11499.4	10047.2	11282.6	11477.6
62.5°	11131.3	11128.2	11101.6	11476.0	12449.4	12613.2	13419.6	12018.8	10100.2	11097.0	10663.3
65°	12728.6	12672.4	12441.6	12850.3	14077.9	14269.7	14516.2	12309.0	9780.4	10143.9	8978.6
67.5°	14399.2	14396.1	14208.9	14739.3	16416.1	16614.2	15887.3	12245.0	8892.9	8217.4	6376.8
70°	15784.4	15717.3	15956.0	17369.2	19403.3	19632.6	17086.9	11491.6	7083.4	5426.8	3788.9
72.5°	16116.6	16119.8	16615.8	19397.1	22271.9	22307.8	17519.0	9314.0	4740.5	2993.4	1895.2
74°	15093.4	15119.9	15888.9	19498.4	22806.9	22644.7	16414.6	7320.5	3205.5	1954.5	1366.5
75°	13776.8	13609.9	14722.1	18823.0	22251.6	22076.9	15121.4	5874.5	2445.9	1561.4	1196.4
77.5°	7365.7	7535.8	9251.6	14046.7	18077.4	17876.2	10253.1	2817.1	1321.2	1087.2	861.1
80°	2622.2	2892.0	4065.0	7350.1	11589.9	11652.3	4893.3	1291.6	929.7	801.8	608.4
82.5°	1070.1	1099.7	1745.5	3261.7	5885.4	5941.6	1998.2	767.5	664.5	552.2	363.5
85°	418.0	430.5	772.1	1466.3	2511.4	2675.2	691.0	405.6	408.7	316.7	185.6
87.5°	140.4	159.1	316.7	488.2	853.3	836.1	201.2	120.1	146.6	137.3	57.7
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°	4299.0	4299.0	4299.0	4299.0	4299.0	4299.0	4299.0	4299.0	4299.0	4299.0	4299.0
2.5°	4313.1	4342.7	4363.0	4384.8	4405.1	4411.3	4406.6	4420.7	4422.2	4423.8	4425.4
5°	4338.0	4378.6	4417.6	4439.4	4448.8	4441.0	4414.4	4400.4	4387.9	4378.6	4381.7
7.5°	4372.3	4430.0	4465.9	4475.3	4450.3	4414.4	4348.9	4297.5	4264.7	4242.9	4241.3
10°	4425.4	4481.5	4511.2	4484.6	4416.0	4328.7	4225.7	4129.0	4055.7	4033.8	4032.3
12.5°	4492.4	4556.4	4554.8	4476.8	4356.7	4200.7	4033.8	3921.5	3821.7	3771.8	3792.1
15°	4579.8	4628.2	4582.9	4442.5	4252.2	4038.5	3832.6	3679.7	3567.4	3514.4	3517.5
17.5°	4681.2	4723.3	4603.2	4381.7	4105.6	3831.1	3592.4	3447.3	3358.4	3319.4	3316.3
20°	4807.5	4820.0	4603.2	4275.6	3916.8	3589.3	3361.5	3260.1	3210.2	3189.9	3196.2
22.5°	4943.2	4918.3	4578.2	4125.9	3668.8	3336.6	3183.7	3138.5	3113.5	3110.4	3113.5
25°	5096.1	5025.9	4526.8	3923.1	3409.9	3118.2	3029.3	3037.1	3041.8	3041.8	3052.7
27.5°	5283.3	5142.9	4441.0	3667.3	3107.3	2915.4	2890.4	2945.0	2970.0	2974.7	2982.5
30°	5529.8	5270.8	4299.0	3347.5	2849.9	2732.9	2776.6	2849.9	2878.0	2895.1	2892.0
32.5°	5823.0	5411.2	4107.2	3027.7	2642.4	2605.0	2658.0	2732.9	2764.1	2773.5	2761.0
35°	6167.7	5570.3	3854.5	2728.2	2461.5	2483.3	2545.7	2569.1	2597.2	2597.2	2603.4
37.5°	6539.0	5698.2	3545.6	2453.7	2321.1	2400.6	2445.9	2424.0	2411.6	2396.0	2403.8
40°	6916.5	5793.4	3144.7	2182.3	2180.7	2314.9	2327.3	2264.9	2215.0	2199.4	2191.6
42.5°	7245.6	5852.7	2782.8	1971.7	2048.1	2230.6	2240.0	2140.1	2060.6	2013.8	1998.2
45°	7634.0	5921.3	2428.7	1797.0	1924.9	2163.5	2186.9	2052.8	1935.8	1837.5	1812.6
47.5°	8165.9	6077.3	2149.5	1661.3	1836.0	2121.4	2154.2	1981.0	1826.6	1698.7	1678.4
50°	8766.5	6291.0	1932.7	1569.2	1767.3	2084.0	2124.6	1907.7	1725.2	1583.3	1567.7
52.5°	9317.1	6406.4	1745.5	1486.6	1700.3	2015.4	2085.6	1854.7	1625.4	1467.8	1453.8
55°	9618.2	6219.2	1561.4	1405.4	1608.2	1926.4	2031.0	1781.4	1528.7	1407.0	1386.7
57.5°	9658.7	5832.4	1394.5	1318.1	1511.5	1817.3	1929.6	1692.5	1466.3	1364.9	1347.7
60°	9345.2	5255.2	1265.1	1246.3	1413.2	1694.0	1815.7	1614.5	1402.3	1318.1	1300.9
62.5°	8565.3	4628.2	1174.6	1180.8	1313.4	1564.6	1731.5	1539.6	1341.5	1266.6	1251.0
65°	7223.8	3820.1	1087.2	1113.8	1224.5	1463.2	1655.0	1477.2	1280.7	1227.6	1213.6
67.5°	5018.1	2757.9	1015.5	1043.6	1140.3	1360.2	1566.1	1410.1	1212.0	1183.9	1162.1
70°	2778.1	1697.1	931.2	964.0	1052.9	1244.8	1466.3	1308.7	1112.2	1099.7	1068.5
72.5°	1460.0	1081.0	836.1	872.0	934.4	1096.6	1313.4	1198.0	1013.9	960.9	920.3
74°	1140.3	886.0	772.1	809.6	851.7	1009.2	1222.9	1118.4	943.7	881.3	850.1
75°	993.6	789.3	717.5	765.9	803.3	950.0	1152.7	1062.3	904.7	845.5	817.4
77.5°	701.9	591.2	586.5	644.2	664.5	833.0	1038.9	967.1	806.5	744.1	717.5
80°	492.9	443.0	464.8	500.7	528.8	736.3	964.0	836.1	661.4	588.1	578.7
82.5°	321.3	290.1	332.3	365.0	374.4	542.8	778.4	634.9	482.0	391.5	363.5
85°	148.2	145.1	190.3	185.6	184.1	265.2	461.7	371.3	277.7	207.5	195.0
87.5°	37.4	35.9	46.8	39.0	46.8	40.6	42.1	10.9	1.6	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)