

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: P648560

Luminaire Tested: **GALN-SA7B-835-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648560  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-835-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31209.6 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

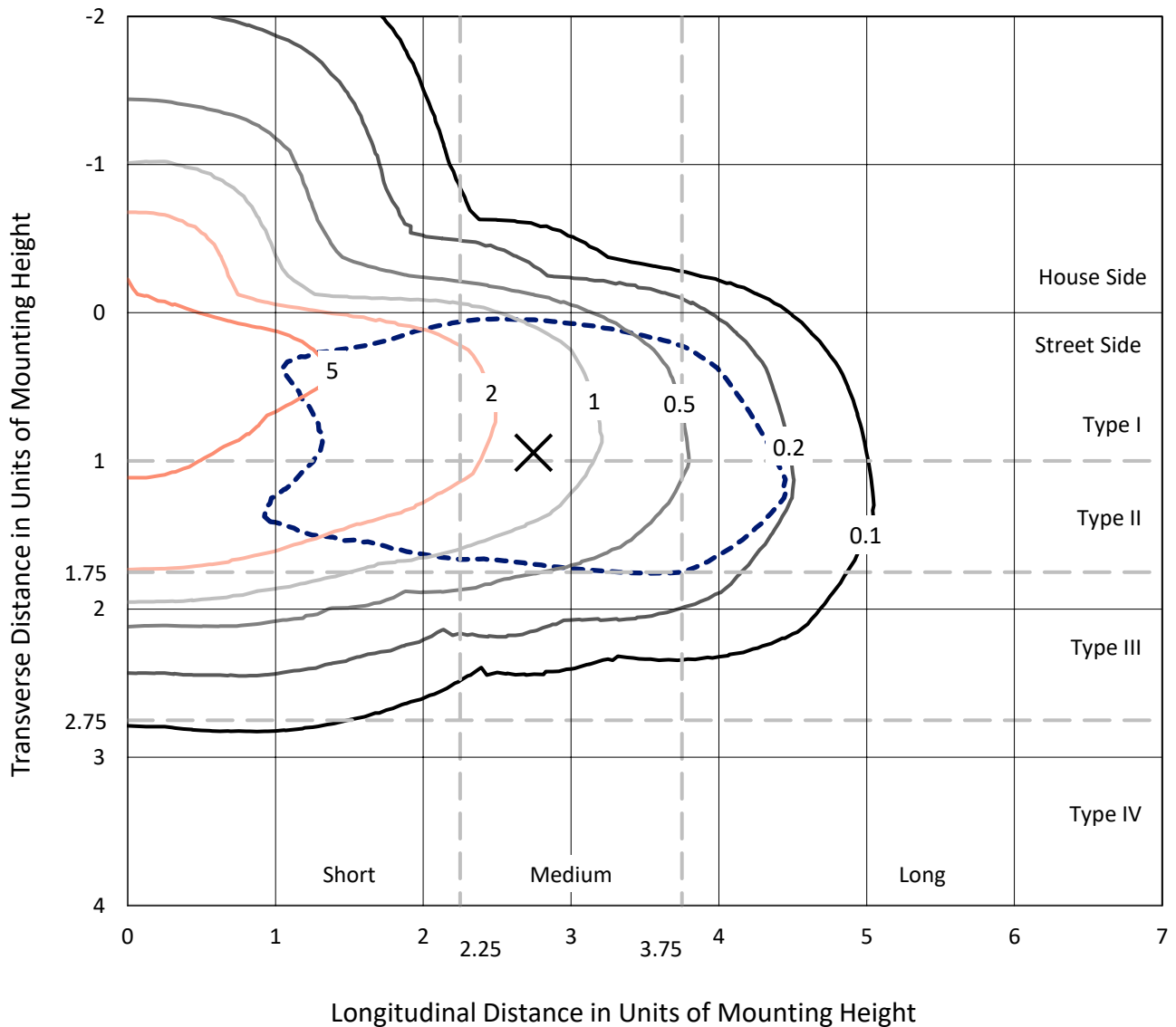
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

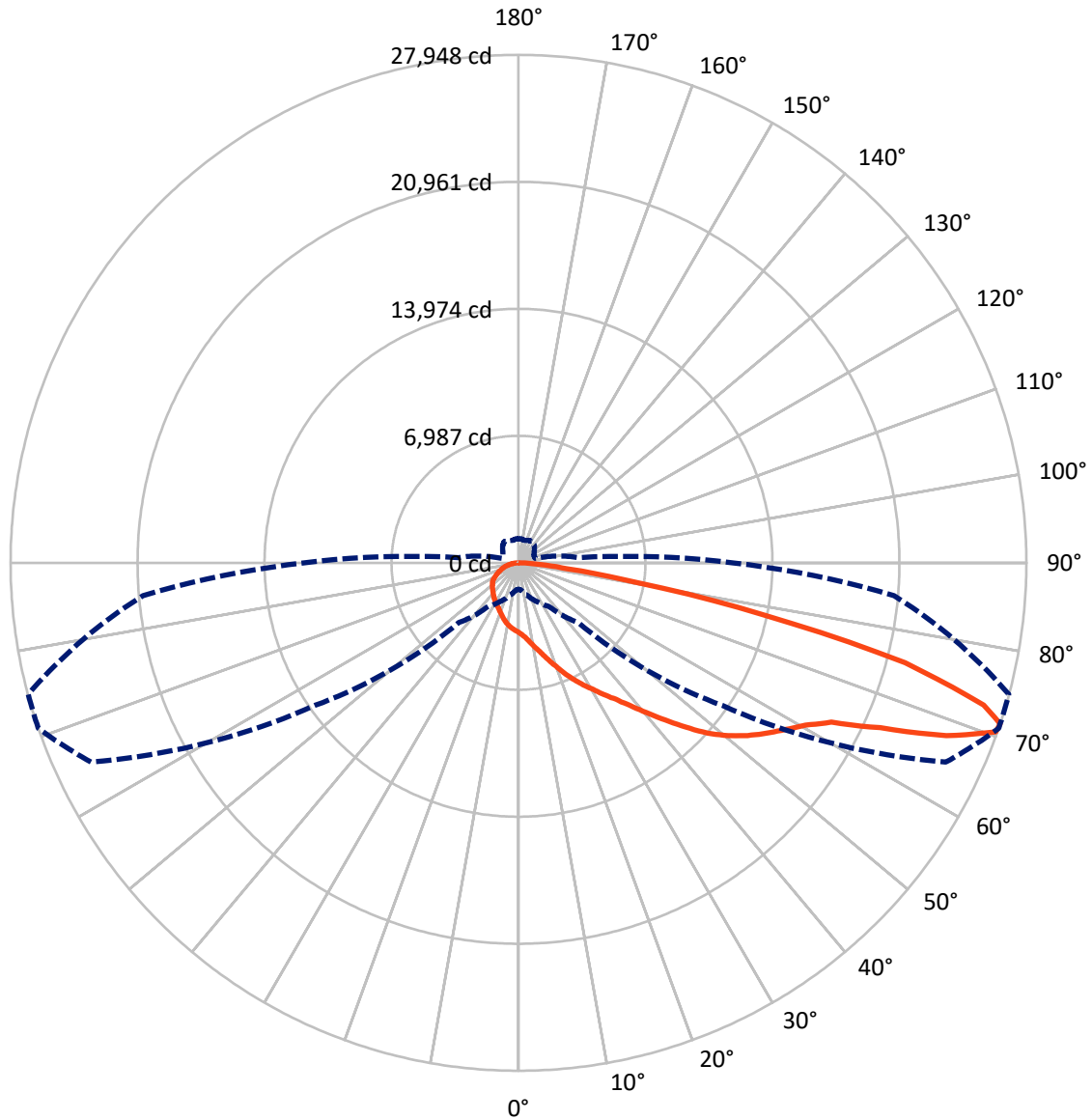
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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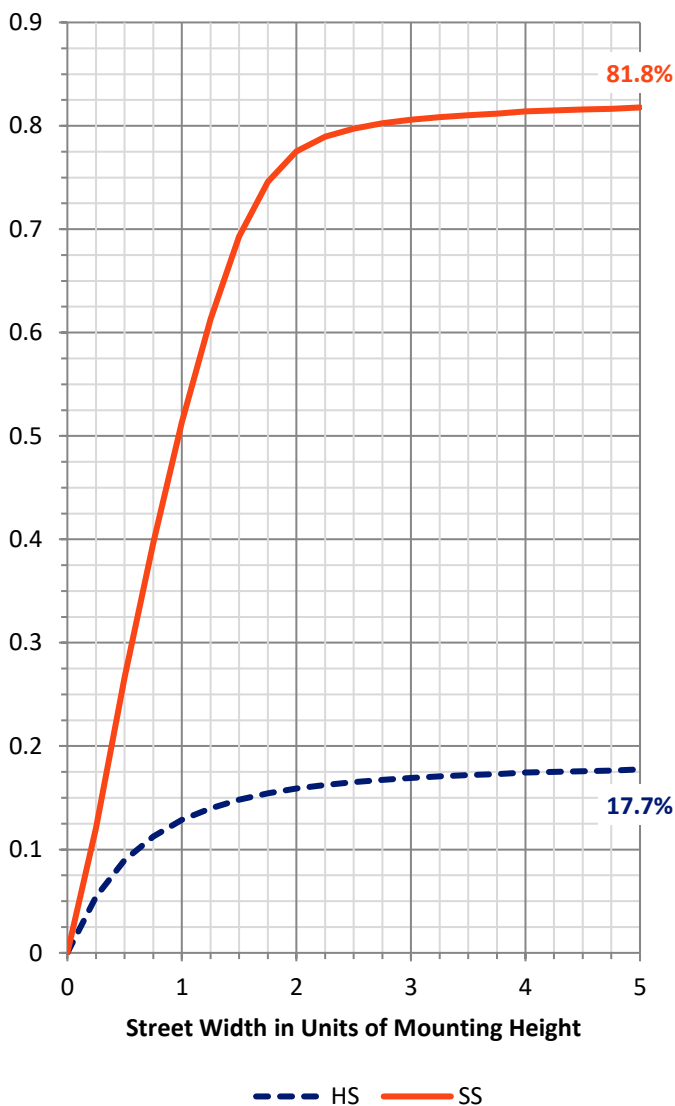
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5613.0	0.0	5613.0
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	25596.6	0.0	25596.6
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	31209.6	0.0	31209.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.6	1.2
10°-20°	1249.5	4.0
20°-30°	2183.6	7.0
30°-40°	3247.9	10.4
40°-50°	4785.3	15.3
50°-60°	6699.5	21.5
60°-70°	7493.2	24.0
70°-80°	4577.1	14.7
80°-90°	588.8	1.9
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°	31209.6	100.0
0°-180°	31209.6	100.0

**Coefficient of Utilization**

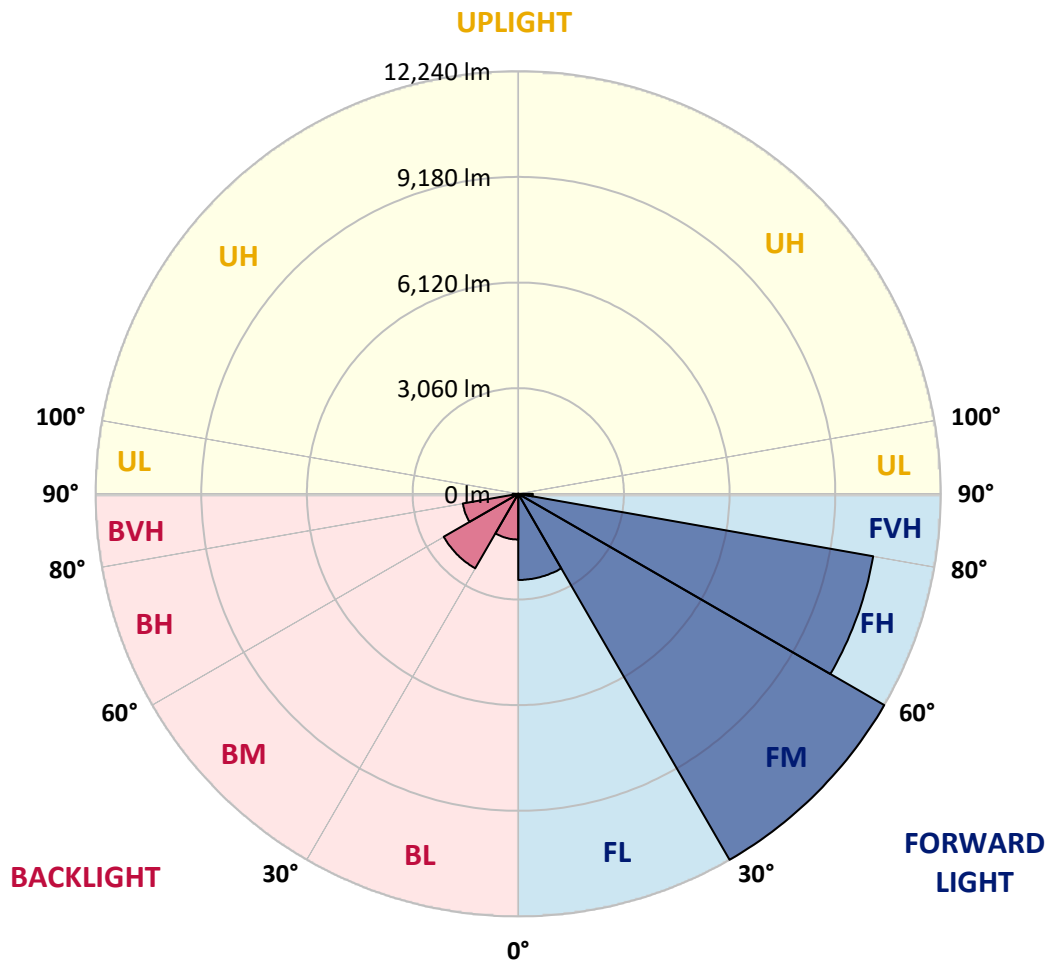


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2493.7	8.0			
FM (30°-60°)	12239.8	39.2			
FH (60°-80°)	10439.5	33.4			G4/12000
FVH (80°-90°)	423.7	1.4			G3/500
BL (0°-30°)	1324.1	4.2	B3/2500		
BM (30°-60°)	2492.9	8.0	B2/2500		
BH (60°-80°)	1630.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	165.1	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3830.4	3830.4	3830.4	3830.4	3830.4	3830.4	3830.4	3830.4	3830.4	3830.4	3830.4
2.5°	4252.3	4231.7	4233.4	4204.3	4166.6	4125.4	4067.1	4015.6	3974.4	3950.5	3880.1
5°	4712.0	4691.5	4665.7	4602.2	4574.8	4473.6	4344.9	4228.4	4139.1	4089.4	3948.7
7.5°	5084.3	5079.2	5072.3	5036.3	4965.9	4825.2	4715.5	4513.1	4381.0	4286.6	4046.5
10°	5314.1	5322.7	5327.8	5334.7	5305.5	5231.8	5080.9	4825.2	4657.1	4537.1	4173.5
12.5°	5430.8	5439.3	5468.6	5532.0	5571.4	5562.8	5439.3	5188.9	4957.3	4799.6	4308.9
15°	5502.8	5516.5	5568.0	5652.1	5784.2	5868.2	5808.1	5576.6	5322.7	5135.8	4470.1
17.5°	5581.7	5597.2	5653.8	5773.8	5947.1	6128.9	6194.1	5995.1	5719.0	5496.0	4650.3
20°	5626.3	5646.9	5727.6	5885.3	6087.7	6351.9	6568.0	6463.4	6161.5	5914.5	4857.9
22.5°	5698.4	5715.5	5784.2	5952.2	6194.1	6525.1	6942.0	6919.7	6653.9	6334.8	5086.0
25°	5894.0	5921.4	5955.7	6056.9	6290.2	6701.9	7252.5	7406.9	7130.7	6773.9	5295.3
27.5°	6262.7	6285.0	6283.3	6297.0	6429.1	6854.5	7521.8	7888.9	7604.1	7218.2	5497.7
30°	6683.0	6691.5	6698.4	6667.6	6696.7	7010.6	7768.8	8365.7	8081.0	7674.4	5674.3
32.5°	7194.1	7211.3	7153.0	7074.1	7050.1	7242.2	7972.9	8842.6	8645.3	8137.6	5849.3
35°	7798.0	7842.5	7724.2	7585.2	7487.4	7575.0	8247.3	9329.8	9223.4	8729.4	6080.9
37.5°	8487.5	8542.4	8432.6	8159.9	8021.0	8044.9	8605.9	9931.8	9954.1	9403.5	6425.7
40°	9051.9	9123.9	9127.4	8741.4	8530.4	8557.9	9060.4	10580.2	10835.9	10237.2	6832.2
42.5°	9424.1	9494.4	9568.2	9341.7	9120.5	9276.6	9590.5	11283.5	11827.3	11249.2	7400.0
45°	9832.4	9895.8	9937.0	9834.1	9710.5	10115.4	10230.3	12031.4	12884.0	12379.6	8021.0
47.5°	10305.8	10376.1	10415.5	10317.8	10271.5	10851.3	10919.9	12729.5	14012.6	13477.5	8707.1
50°	10937.0	10990.2	10969.6	10907.9	10897.6	11415.6	11582.0	13383.1	14944.1	14659.3	9418.9
52.5°	11722.7	11786.1	11808.4	11721.0	11681.5	11818.7	12115.4	13978.4	15791.5	15674.8	10178.8
55°	12197.8	12299.1	12638.6	12775.9	12870.2	12340.2	12690.1	14635.3	16551.4	16745.2	10995.4
57.5°	11588.9	11719.2	12479.1	13165.3	14052.1	13643.9	13504.9	15321.4	17311.3	17782.9	11973.1
60°	10103.4	10132.6	11112.0	12376.2	14160.2	15319.7	15204.8	16412.4	18134.6	18829.3	13261.4
62.5°	7008.9	7070.6	8228.5	10245.7	12825.6	15923.6	18096.9	18295.9	19314.7	20395.4	15150.0
65°	3614.2	3533.6	4588.5	6439.4	9669.4	14489.5	20440.1	21759.1	21874.0	22845.0	17808.7
67.5°	2224.8	2260.8	2754.8	3760.0	5717.2	10530.5	20194.7	25990.9	25385.4	25851.9	20277.1
70°	1670.8	1715.3	2055.0	2573.0	3485.6	6020.9	16240.9	27016.6	27862.4	27742.2	21028.4
71°	1452.9	1499.2	1852.6	2341.5	2928.1	4646.9	13683.3	25942.8	27948.1	27927.5	20745.4
72.5°	1238.5	1267.7	1543.8	1982.9	2468.4	3257.4	10280.1	23266.9	26755.9	27440.4	19735.0
75°	972.6	994.9	1118.4	1512.9	1943.5	2000.1	5516.5	17443.4	21975.3	23278.9	16429.5
77.5°	792.5	807.9	871.4	1123.5	1499.2	1416.8	2893.8	11353.9	13767.3	15079.6	9678.0
80°	629.5	646.7	684.4	761.6	1123.5	1010.3	1380.8	5753.2	6650.4	6636.6	3862.9
82.5°	488.9	494.0	538.6	559.2	768.4	717.0	747.9	2435.8	2698.2	2787.4	1394.6
85°	308.7	324.2	476.8	428.8	459.7	420.2	368.8	967.5	1192.2	1175.0	557.5
87.5°	94.4	99.5	161.2	181.8	204.1	183.5	135.5	284.8	348.2	377.4	138.9
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°	3830.4	3830.4	3830.4	3830.4	3830.4	3830.4	3830.4	3830.4	3830.4	3830.4	3830.4
2.5°	3852.7	3833.8	3766.9	3712.0	3660.5	3603.9	3555.9	3542.2	3530.2	3525.1	3523.3
5°	3888.7	3832.1	3700.0	3591.9	3506.2	3427.3	3377.5	3355.2	3332.9	3332.9	3339.8
7.5°	3940.1	3837.2	3633.1	3471.8	3363.8	3290.0	3254.0	3250.5	3255.7	3260.9	3262.6
10°	3996.7	3833.8	3535.3	3334.6	3238.6	3204.3	3206.0	3235.1	3262.6	3283.2	3286.6
12.5°	4051.6	3813.2	3420.4	3206.0	3144.2	3151.1	3199.1	3264.3	3317.5	3346.6	3348.3
15°	4113.4	3780.6	3281.5	3084.2	3063.6	3116.8	3206.0	3305.4	3386.1	3434.1	3439.2
17.5°	4164.9	3725.7	3135.7	2965.8	2991.5	3089.3	3212.8	3341.5	3439.2	3499.3	3509.6
20°	4223.2	3655.4	2984.7	2852.6	2926.4	3058.5	3199.1	3338.1	3439.2	3497.6	3511.3
22.5°	4269.5	3555.9	2840.6	2760.0	2868.1	3020.7	3152.8	3264.3	3346.6	3377.5	3398.1
25°	4288.3	3430.7	2705.1	2684.5	2821.8	2959.0	3048.1	3111.6	3137.4	3134.0	3142.5
27.5°	4278.1	3286.6	2588.4	2624.5	2763.4	2862.9	2907.5	2902.3	2856.1	2813.2	2833.8
30°	4235.2	3115.1	2490.6	2562.8	2688.0	2742.8	2736.0	2669.1	2581.6	2501.0	2506.1
32.5°	4158.0	2929.8	2399.7	2492.4	2581.6	2605.6	2559.3	2471.8	2346.6	2242.0	2226.5
35°	4092.8	2753.1	2319.2	2411.8	2475.2	2463.2	2418.6	2305.4	2192.2	2099.6	2084.1
37.5°	4082.5	2602.1	2242.0	2320.9	2356.9	2339.8	2284.9	2188.8	2147.6	2077.3	2068.7
40°	4137.4	2495.8	2163.0	2224.8	2242.0	2228.3	2168.2	2113.3	2151.1	2133.9	2133.9
42.5°	4286.6	2439.2	2092.7	2128.7	2142.4	2152.8	2109.9	2063.6	2109.9	2030.9	2005.3
45°	4523.4	2440.9	2029.2	2034.4	2075.6	2111.6	2082.4	2013.8	1989.8	1832.0	1801.1
47.5°	4871.6	2499.3	1977.8	1945.2	2019.0	2079.0	2037.8	1938.3	1832.0	1727.4	1708.5
50°	5278.1	2603.9	1931.5	1852.6	1943.5	2037.8	2007.0	1890.3	1780.5	1717.0	1705.1
52.5°	5729.2	2736.0	1874.9	1749.6	1850.9	2019.0	2013.8	1883.4	1732.5	1689.6	1679.3
55°	6286.7	2866.3	1804.6	1629.6	1768.5	2003.5	1994.9	1826.8	1722.2	1691.4	1687.9
57.5°	6935.1	3055.0	1703.3	1507.8	1674.2	1940.0	1921.2	1792.5	1687.9	1665.6	1663.9
60°	7979.8	3348.3	1559.3	1396.3	1578.1	1828.5	1852.6	1734.2	1633.0	1627.9	1626.1
62.5°	9353.8	3760.0	1410.0	1281.4	1466.6	1684.5	1753.1	1655.3	1574.7	1600.5	1603.8
65°	11250.9	4106.5	1255.6	1183.6	1343.1	1545.6	1658.7	1581.6	1509.5	1559.3	1559.3
67.5°	12487.7	4113.4	1115.0	1082.4	1217.9	1428.9	1559.3	1494.0	1425.5	1509.5	1512.9
70°	12230.4	3603.9	998.3	976.0	1096.1	1303.7	1449.5	1398.0	1319.1	1394.6	1367.1
71°	11815.3	3320.9	952.0	934.8	1048.0	1243.6	1398.0	1355.1	1276.2	1325.9	1310.5
72.5°	11153.1	2883.5	876.6	879.9	976.0	1168.2	1325.9	1281.4	1202.5	1229.9	1224.8
75°	9427.6	2518.1	749.6	765.1	838.8	1039.5	1181.9	1147.6	1066.9	1066.9	1061.8
77.5°	5894.0	1759.9	622.6	631.3	711.9	890.3	1015.5	986.3	909.1	883.4	876.6
80°	2199.1	909.1	487.2	497.4	547.2	701.6	840.6	813.1	734.1	705.0	677.5
82.5°	831.9	456.3	358.5	349.9	403.1	535.2	658.7	626.1	564.4	494.0	473.4
85°	313.9	226.4	219.6	212.7	236.7	317.3	408.3	401.4	336.2	286.5	281.3
87.5°	82.4	73.8	85.7	63.5	66.9	60.1	61.8	25.8	12.0	5.2	3.4
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)