

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: P529985

Luminaire Tested: **GALN-SA5A-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10868 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

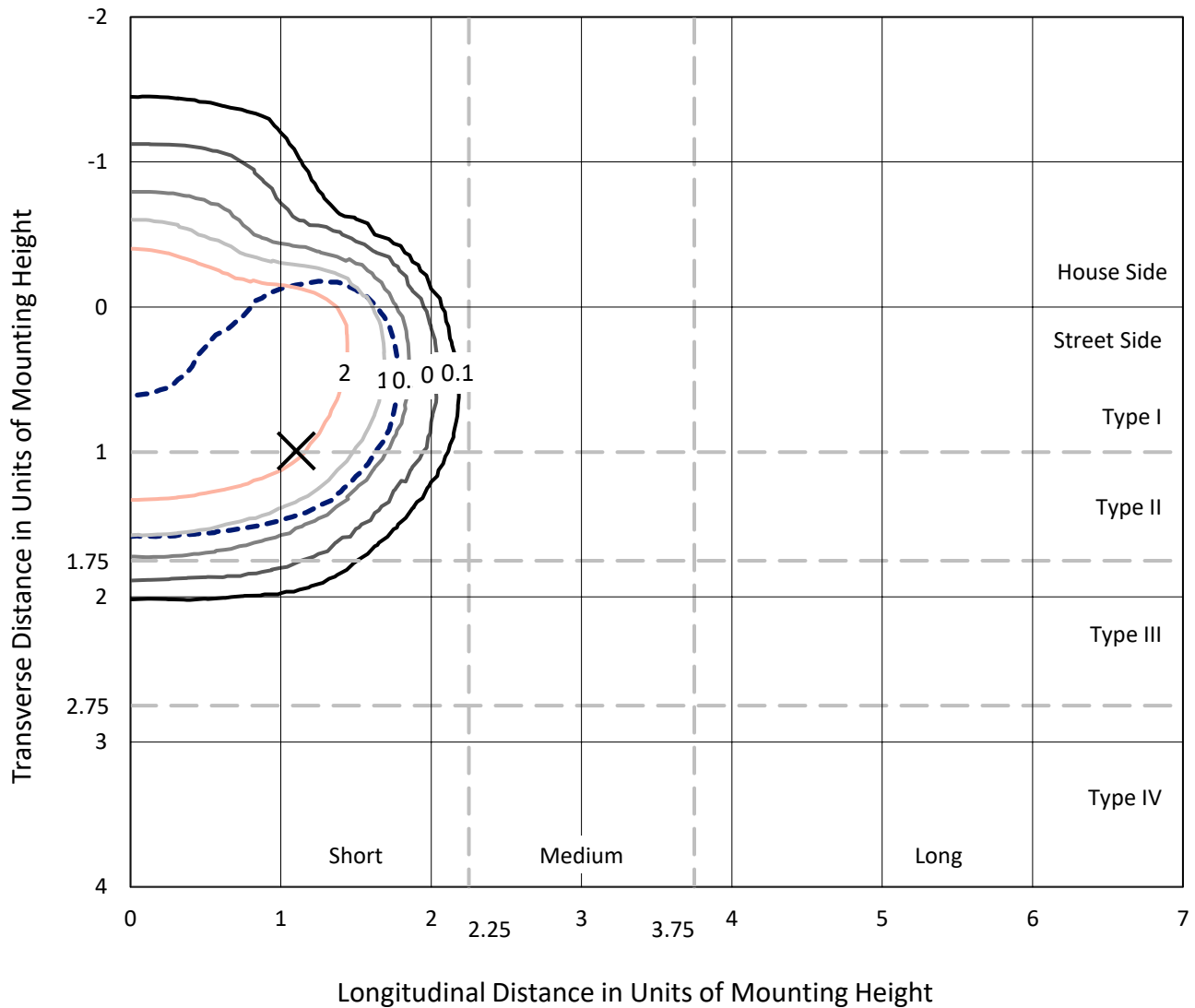
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

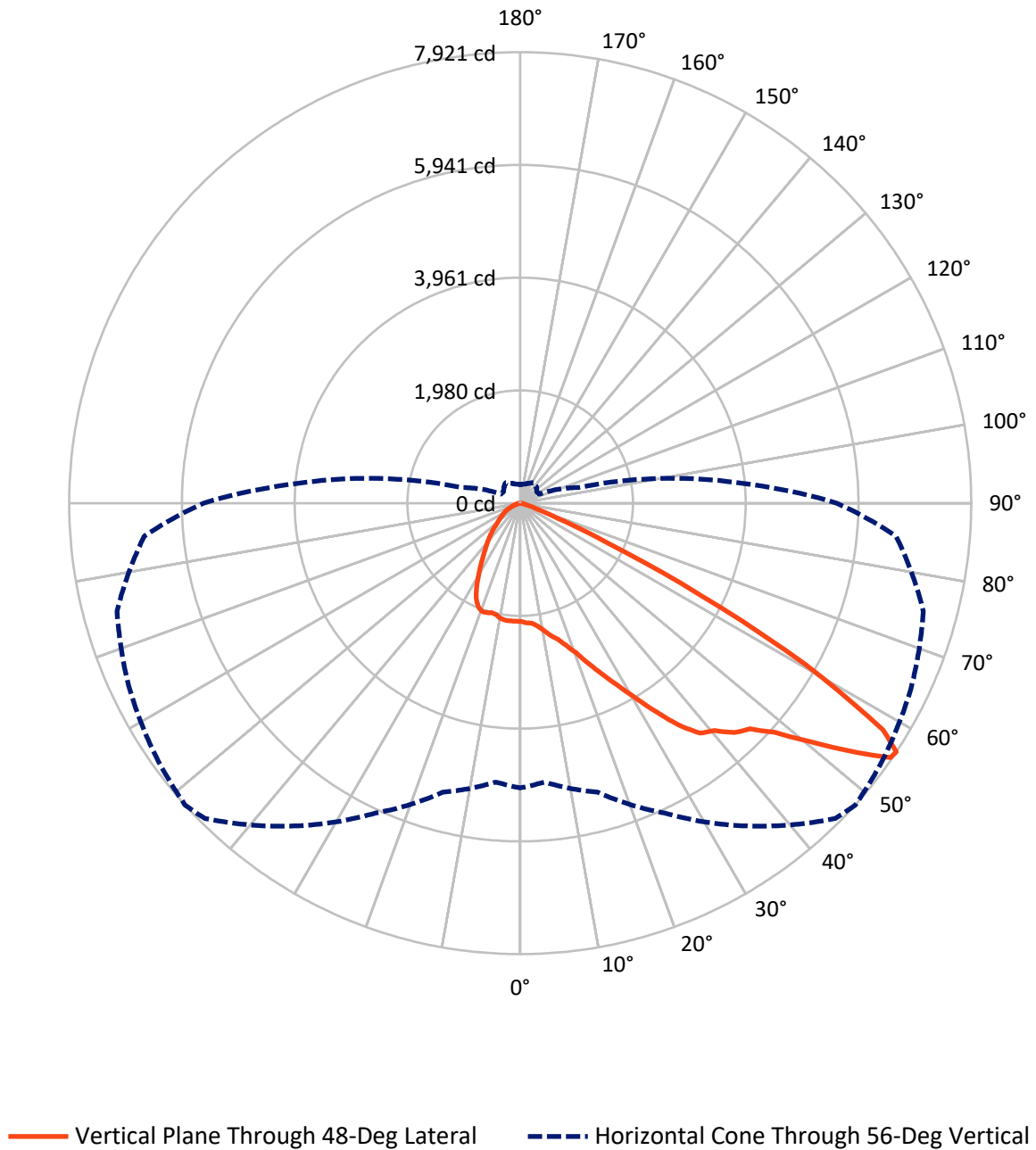
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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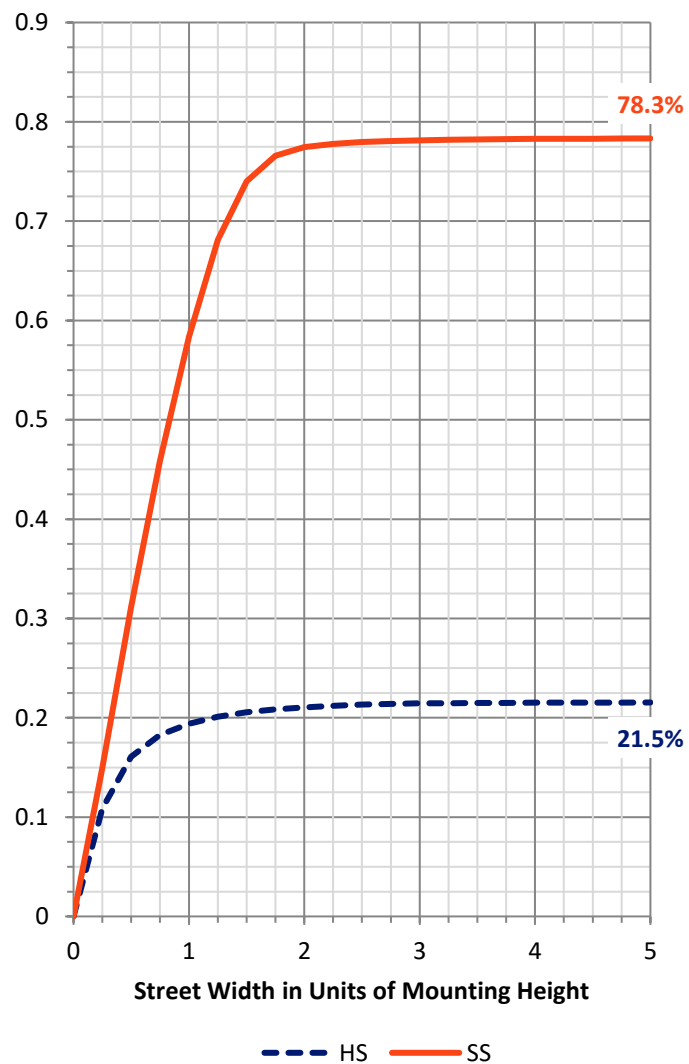
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2363.6	0.0	2363.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	8504.4	0.0	8504.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	10868.0	0.0	10868.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.2	1.9
10°-20°	646.2	5.9
20°-30°	1172.1	10.8
30°-40°	1841.1	16.9
40°-50°	2685.9	24.7
50°-60°	3236.0	29.8
60°-70°	947.5	8.7
70°-80°	120.2	1.1
80°-90°	16.9	0.2
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°	10868.0	100.0
0°-180°	10868.0	100.0

Coefficient of Utilization



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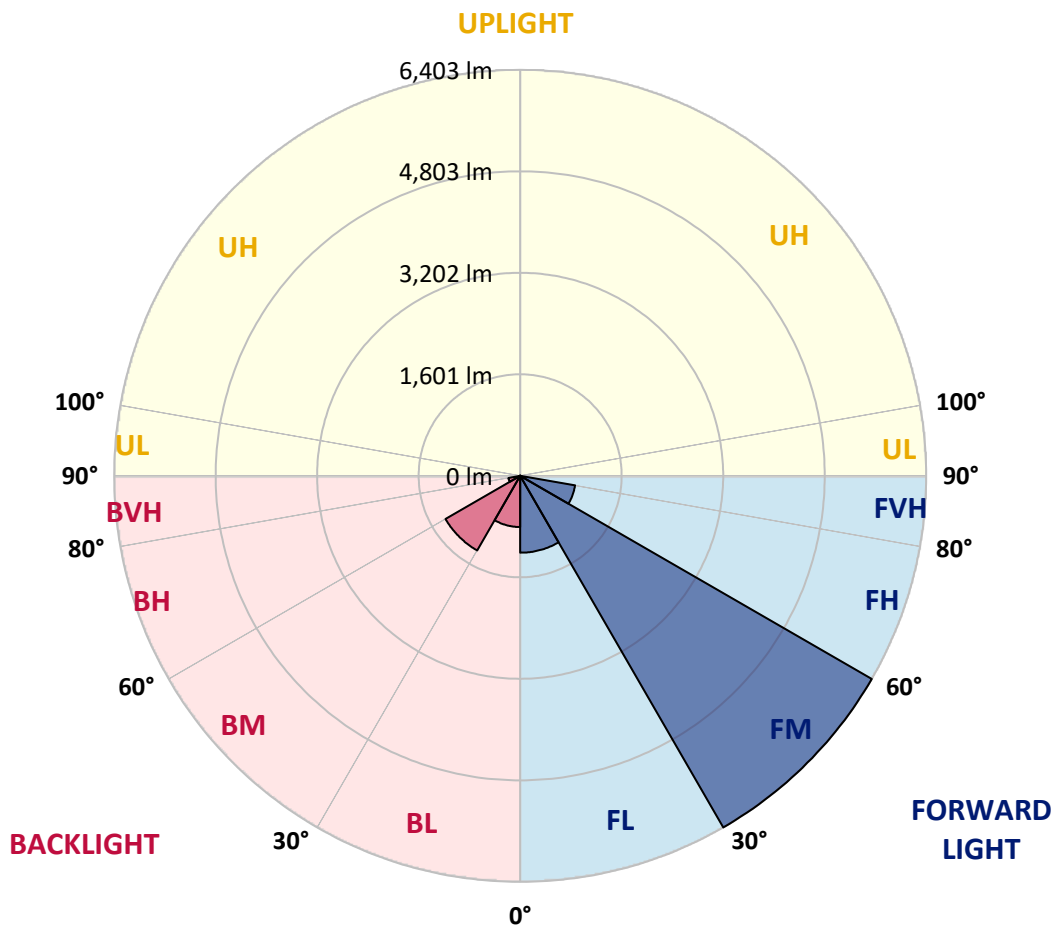
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1212.6	11.2			
FM	(30°-60°)	6403.5	58.9			
FH	(60°-80°)	879.8	8.1			G1/1800
FVH	(80°-90°)	8.5	0.1			G0/10
BL	(0°-30°)	807.9	7.4	B2/1000		
BM	(30°-60°)	1359.5	12.5	B2/2500		
BH	(60°-80°)	187.8	1.7	B1/500		G1/500
BVH	(80°-90°)	8.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8
2.5°	2113.4	2103.5	2103.5	2087.7	2105.5	2097.6	2103.5	2083.7	2103.5	2073.8	2097.6
5°	2123.3	2125.3	2117.3	2127.2	2127.2	2139.1	2119.3	2137.1	2147.0	2125.3	2115.4
7.5°	2174.7	2178.7	2176.7	2168.8	2184.6	2182.6	2180.7	2166.8	2170.8	2162.9	2151.0
10°	2275.7	2273.7	2283.6	2263.8	2251.9	2265.8	2269.7	2248.0	2232.1	2226.2	2188.6
12.5°	2422.1	2398.3	2384.5	2364.7	2370.6	2350.9	2386.5	2348.9	2341.0	2305.3	2267.7
15°	2540.8	2536.9	2538.8	2507.2	2471.6	2479.5	2479.5	2459.7	2447.8	2404.3	2350.9
17.5°	2784.2	2701.1	2718.9	2679.3	2649.7	2647.7	2629.9	2633.8	2602.2	2511.1	2430.0
20°	2974.2	2938.6	2910.9	2843.6	2798.1	2811.9	2804.0	2784.2	2774.3	2655.6	2540.8
22.5°	3144.4	3156.2	3110.7	3092.9	3029.6	3035.5	3051.4	3033.5	2958.4	2835.7	2665.5
25°	3383.8	3369.9	3308.6	3286.8	3227.5	3249.2	3310.6	3296.7	3249.2	3027.6	2762.4
27.5°	3666.8	3619.3	3631.2	3532.2	3474.8	3536.2	3609.4	3678.6	3544.1	3253.2	2877.2
30°	3866.6	3817.2	3813.2	3809.2	3795.4	3866.6	3951.7	4015.0	3906.2	3478.8	3067.2
32.5°	3965.6	3977.4	4011.1	3999.2	4119.9	4266.4	4355.4	4446.4	4309.9	3846.8	3318.5
35°	4228.8	4153.6	4228.8	4236.7	4361.3	4672.0	4784.8	5002.5	4968.8	4367.3	3625.2
37.5°	4383.1	4377.2	4387.1	4462.3	4583.0	4966.9	5127.1	5295.3	5232.0	4679.9	4007.1
40°	4638.4	4654.2	4652.2	4709.6	4842.2	5188.5	5253.8	5390.3	5396.3	5113.3	4569.1
42.5°	5048.0	4984.7	4943.1	5002.5	5188.5	5380.4	5511.0	5483.3	5679.2	5639.7	5291.4
45°	5416.1	5453.7	5392.3	5491.3	5558.5	5661.4	5657.5	5716.8	5966.2	6154.2	5835.6
47.5°	5760.4	5784.1	5813.8	5881.1	6027.5	6043.3	6009.7	5984.0	6328.3	6522.2	6257.1
50°	5966.2	5987.9	6126.5	6247.2	6520.2	6555.9	6575.7	6510.4	6743.9	6765.6	6654.8
52.5°	5910.8	5934.5	6128.4	6526.2	6961.5	7288.0	7228.7	7117.9	7104.0	7189.1	7022.9
55°	5420.0	5398.2	5665.4	6284.8	7100.0	7883.7	7891.6	7774.8	7551.2	7493.8	6967.5
56°	5002.5	4917.4	5257.8	6005.7	6921.9	7832.2	7921.3	7796.6	7586.8	7329.6	6625.1
57.5°	4098.2	4179.3	4517.7	5137.0	6306.5	7462.2	7513.6	7483.9	7325.6	6894.2	5829.6
60°	2259.8	2402.3	2701.1	3459.0	4490.0	5726.7	5768.3	6009.7	6039.4	5279.5	4011.1
62.5°	959.7	943.9	1254.6	1812.6	2556.6	3457.0	3534.2	3781.5	3827.1	3043.4	2012.5
65°	389.8	411.6	567.9	912.2	1351.5	1575.1	1684.0	1765.1	1915.5	1256.6	742.1
67.5°	257.2	255.3	334.4	520.4	728.2	702.5	702.5	742.1	686.7	512.5	320.6
70°	184.0	190.0	239.4	360.1	453.2	336.4	322.5	308.7	350.3	338.4	259.2
72.5°	120.7	128.6	160.3	215.7	235.5	184.0	184.0	221.6	288.9	273.1	211.7
75°	79.2	81.1	98.9	124.7	116.8	95.0	104.9	148.4	209.8	201.8	150.4
77.5°	53.4	55.4	67.3	81.1	65.3	53.4	57.4	75.2	102.9	102.9	79.2
80°	19.8	21.8	27.7	25.7	29.7	37.6	41.6	51.4	61.3	61.3	53.4
82.5°	0.0	2.0	5.9	13.9	21.8	29.7	33.6	39.6	45.5	51.4	49.5
85°	0.0	2.0	5.9	9.9	15.8	17.8	19.8	13.9	11.9	11.9	9.9
87.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	2.0	2.0
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°	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8	2075.8
2.5°	2075.8	2073.8	2073.8	2067.9	2079.8	2073.8	2077.8	2075.8	2050.1	2069.9	2056.0
5°	2097.6	2111.4	2089.6	2085.7	2069.9	2075.8	2075.8	2056.0	2073.8	2071.8	2067.9
7.5°	2153.0	2129.2	2105.5	2081.7	2077.8	2071.8	2050.1	2042.2	2056.0	2040.2	2063.9
10°	2176.7	2180.7	2145.1	2113.4	2083.7	2042.2	2012.5	1994.7	1972.9	1996.6	2010.5
12.5°	2285.5	2246.0	2184.6	2135.2	2034.2	1992.7	1963.0	1955.1	1992.7	2000.6	1986.7
15°	2323.1	2317.2	2238.1	2127.2	2022.4	1972.9	1978.8	1963.0	1967.0	1947.2	1951.1
17.5°	2400.3	2333.0	2240.0	2101.5	2020.4	2008.5	1972.9	1909.6	1874.0	1858.1	1872.0
20°	2485.4	2420.1	2285.5	2111.4	2038.2	2006.5	1889.8	1812.6	1739.4	1699.8	1701.8
22.5°	2560.6	2479.5	2265.8	2115.4	2054.0	1923.4	1782.9	1630.6	1539.5	1478.2	1480.2
25°	2651.6	2536.9	2273.7	2123.3	2012.5	1790.8	1589.0	1440.6	1331.8	1290.2	1304.0
27.5°	2703.1	2572.5	2317.2	2141.1	1903.6	1602.9	1385.2	1246.7	1183.3	1163.6	1161.6
30°	2857.4	2651.6	2370.6	2105.5	1721.6	1401.0	1199.2	1114.1	1052.7	1034.9	1038.9
32.5°	3087.0	2796.1	2439.9	2012.5	1535.6	1220.9	1078.5	1015.1	957.8	924.1	920.2
35°	3278.9	3043.4	2513.1	1868.0	1319.9	1082.4	993.4	914.2	827.2	789.6	779.7
37.5°	3645.0	3322.5	2497.3	1650.3	1114.1	979.5	902.3	805.4	730.2	678.7	672.8
40°	4131.8	3649.0	2420.1	1385.2	961.7	888.5	805.4	712.4	619.4	575.8	571.9
42.5°	4723.5	4048.7	2279.6	1116.1	809.3	797.5	722.3	615.4	532.3	500.6	502.6
45°	5204.3	4391.0	2137.1	896.4	696.5	708.4	643.1	542.2	484.8	459.1	459.1
47.5°	5631.8	4622.5	1982.8	740.1	591.7	619.4	562.0	502.6	453.2	433.4	429.4
50°	6043.3	4858.0	1828.4	599.6	504.6	532.3	526.4	478.9	439.3	415.6	417.5
52.5°	6300.6	4895.6	1632.5	490.7	441.3	472.9	492.7	449.2	405.7	391.8	387.9
55°	5986.0	4410.8	1266.5	403.7	374.0	415.6	453.2	403.7	370.0	346.3	344.3
56°	5562.5	3943.8	1058.7	372.0	354.2	399.7	439.3	385.9	348.3	334.4	324.5
57.5°	4709.6	3227.5	781.6	330.5	328.5	372.0	417.5	368.1	324.5	312.7	312.7
60°	2936.6	1816.6	472.9	277.0	285.0	330.5	376.0	328.5	288.9	288.9	294.8
62.5°	1337.7	755.9	286.9	235.5	245.4	285.0	334.4	296.8	275.1	296.8	300.8
65°	455.1	326.5	207.8	188.0	193.9	235.5	286.9	300.8	298.8	312.7	320.6
67.5°	255.3	209.8	174.1	156.3	152.4	174.1	235.5	300.8	288.9	283.0	286.9
70°	215.7	178.1	154.3	138.5	132.6	140.5	182.1	227.6	203.8	197.9	193.9
72.5°	174.1	148.4	134.6	124.7	106.9	91.0	83.1	87.1	97.0	102.9	112.8
75°	122.7	112.8	112.8	100.9	77.2	57.4	45.5	37.6	25.7	17.8	19.8
77.5°	69.3	69.3	71.2	61.3	49.5	37.6	27.7	19.8	9.9	4.0	2.0
80°	47.5	51.4	55.4	49.5	41.6	33.6	23.7	13.9	5.9	0.0	0.0
82.5°	47.5	53.4	57.4	49.5	41.6	31.7	23.7	13.9	5.9	2.0	0.0
85°	9.9	11.9	13.9	15.8	23.7	23.7	17.8	11.9	5.9	2.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	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)