

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: P527401

Luminaire Tested: **GALN-SA2B-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5318 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 82
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



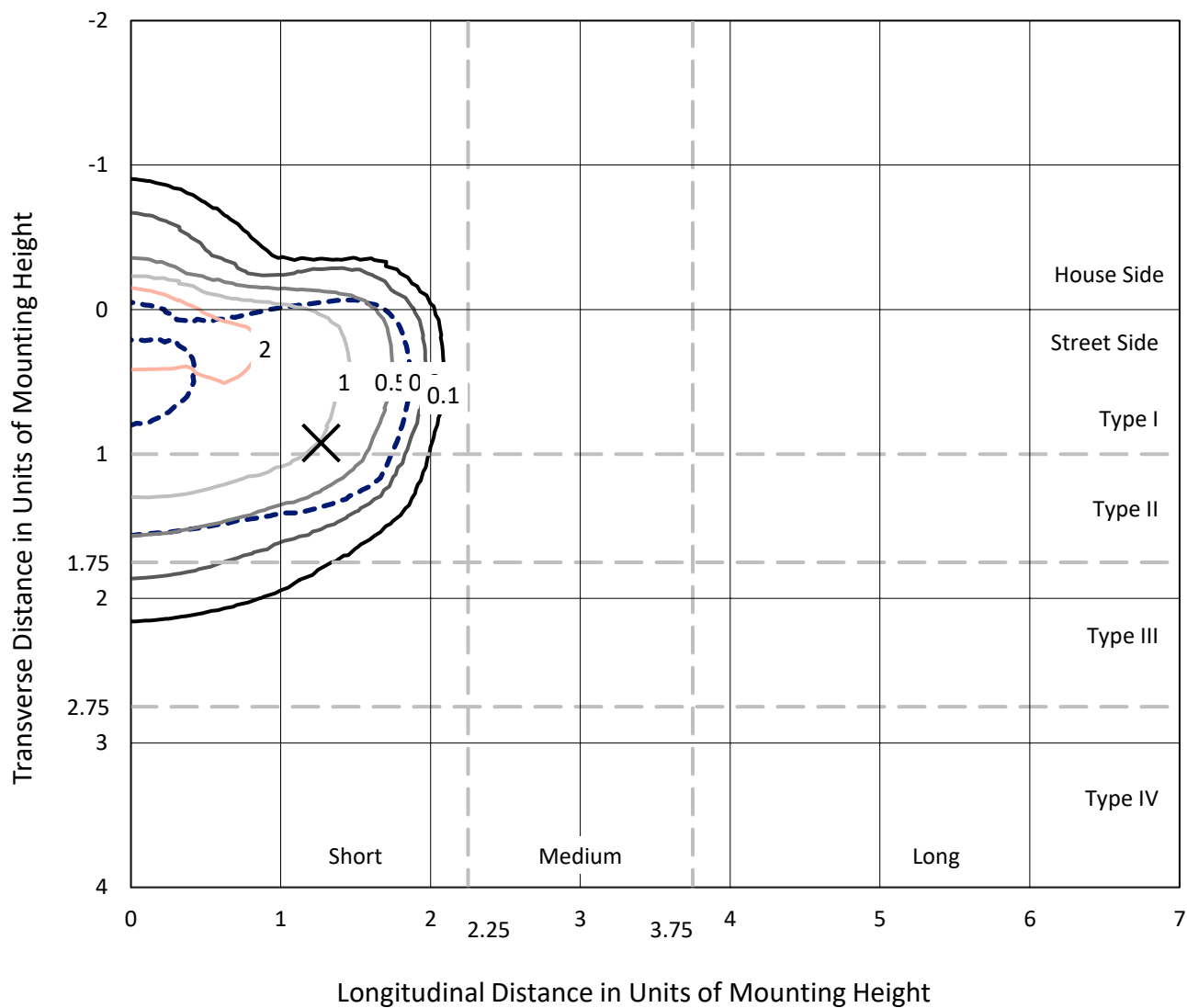
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

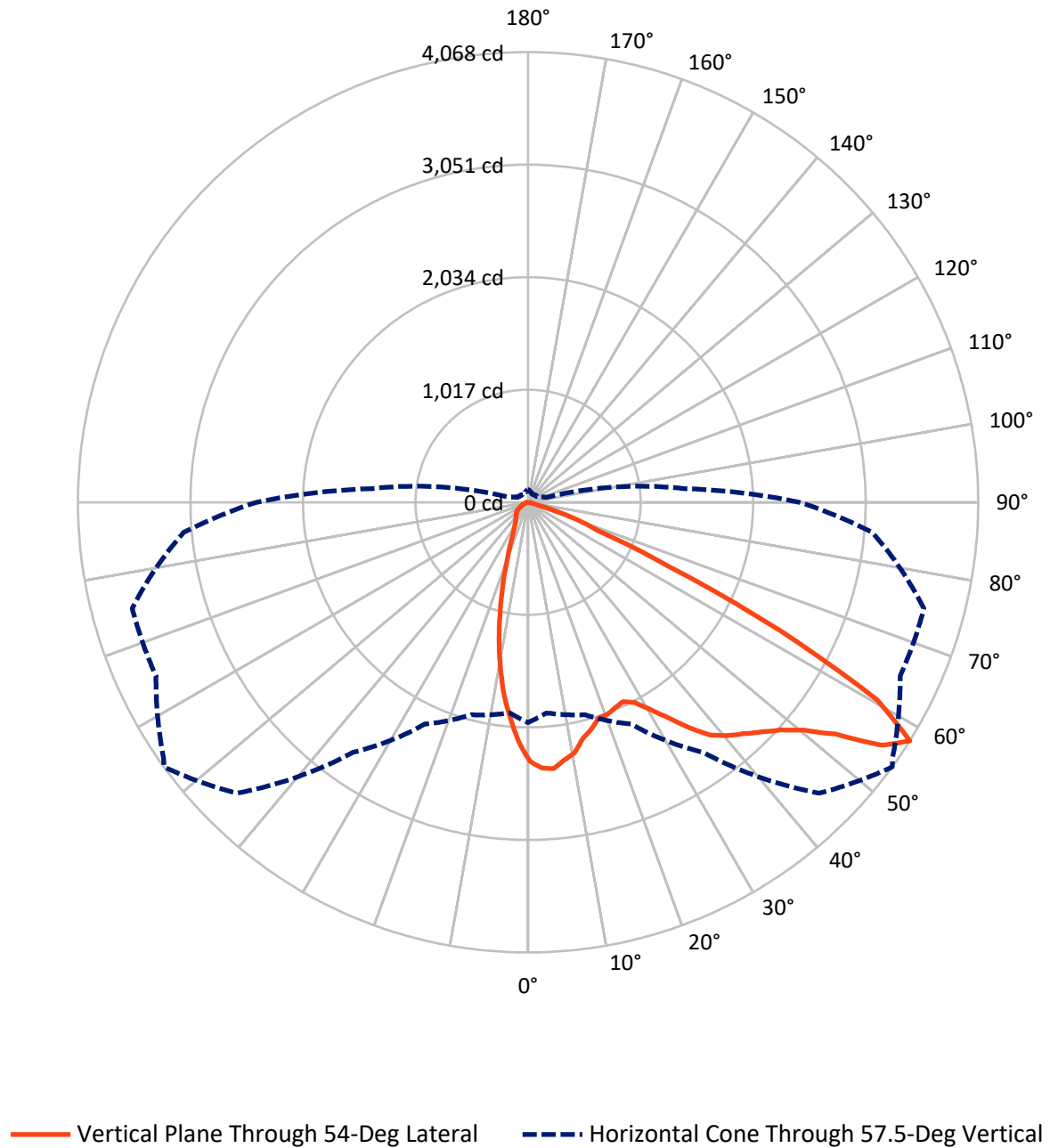
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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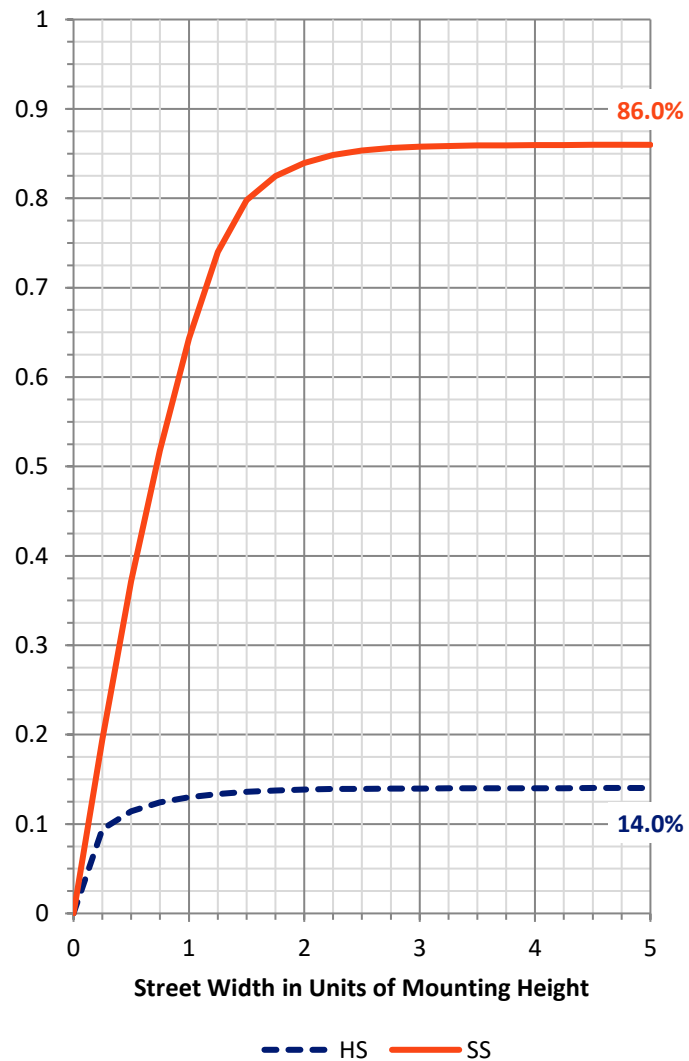
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	751.5	0.0	751.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	4566.5	0.0	4566.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	5318.0	0.0	5318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.0	3.7
10°-20°	418.5	7.9
20°-30°	554.6	10.4
30°-40°	806.1	15.2
40°-50°	1195.3	22.5
50°-60°	1494.6	28.1
60°-70°	589.6	11.1
70°-80°	58.7	1.1
80°-90°	4.6	0.1
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°	5318.0	100.0
0°-180°	5318.0	100.0

Coefficient of Utilization



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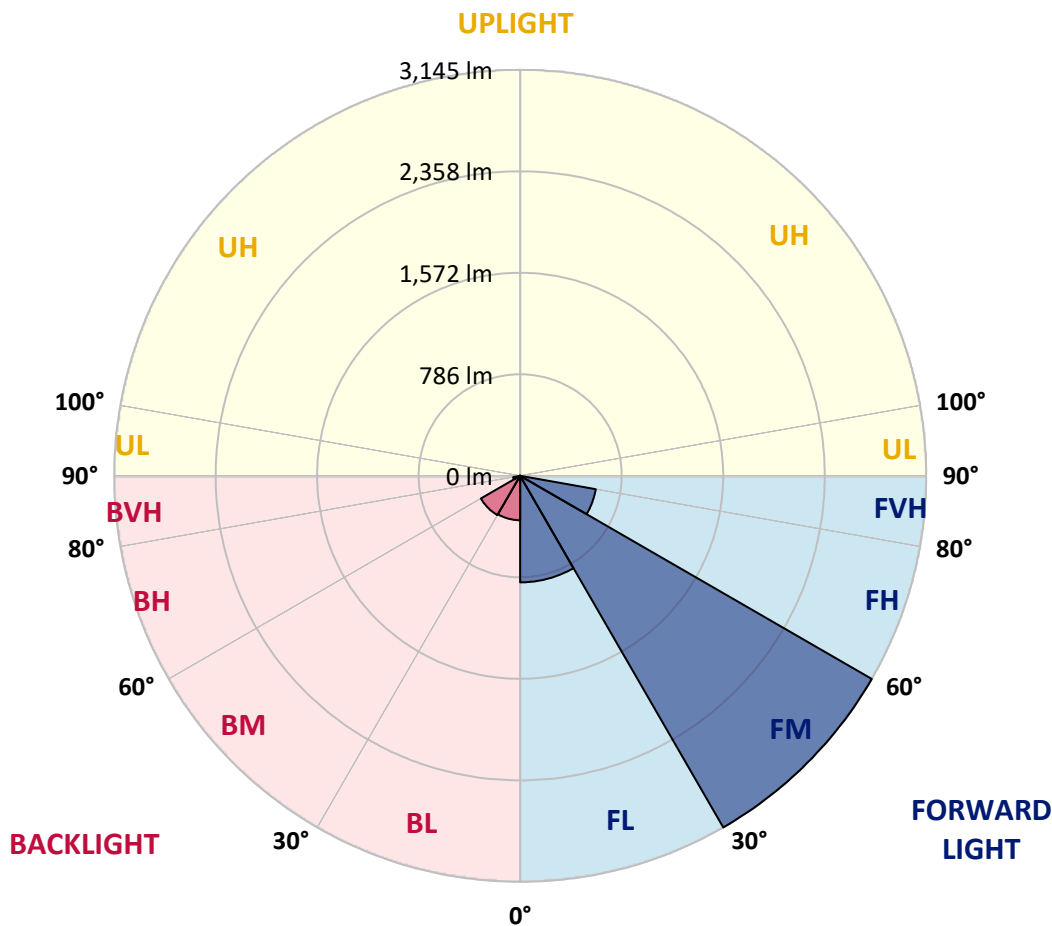
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	825.5	15.5			
FM	(30°-60°)	3144.5	59.1			
FH	(60°-80°)	594.4	11.2			G0/660
FVH	(80°-90°)	2.1	0.0			G0/10
BL	(0°-30°)	343.7	6.5	B1/500		
BM	(30°-60°)	351.4	6.6	B1/1000		
BH	(60°-80°)	53.9	1.0	B0/110		G0/110
BVH	(80°-90°)	2.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2342.7	2342.7	2342.7	2342.7	2342.7	2342.7	2342.7	2342.7	2342.7	2342.7	2342.7
2.5°	2479.1	2453.4	2455.4	2446.5	2434.6	2443.5	2404.9	2413.8	2412.9	2360.5	2325.8
5°	2416.8	2444.5	2415.8	2439.6	2416.8	2441.5	2417.8	2400.0	2371.3	2332.8	2268.5
7.5°	2311.0	2284.3	2292.2	2321.9	2326.8	2382.2	2352.5	2375.3	2363.4	2287.3	2199.3
10°	2098.4	2092.5	2132.0	2171.6	2220.0	2279.4	2302.1	2289.3	2280.4	2251.7	2134.0
12.5°	1935.2	1952.0	1951.1	2016.3	2098.4	2132.0	2191.4	2189.4	2238.8	2185.4	2072.7
15°	1780.0	1788.9	1830.4	1871.0	1961.9	2057.9	2131.0	2140.9	2200.3	2162.7	2025.2
17.5°	1685.0	1672.2	1704.8	1753.3	1846.2	1971.8	2052.9	2076.6	2157.7	2149.8	1970.8
20°	1591.1	1591.1	1617.8	1675.2	1760.2	1901.6	2046.0	2039.1	2157.7	2135.0	1912.5
22.5°	1559.5	1575.3	1582.2	1625.7	1726.6	1848.2	2016.3	2029.2	2174.5	2128.1	1886.8
25°	1603.0	1582.2	1584.2	1618.8	1713.7	1822.5	1994.6	2023.2	2205.2	2162.7	1866.0
27.5°	1609.9	1630.7	1636.6	1660.3	1723.6	1830.4	2049.0	2107.3	2281.3	2243.8	1871.9
30°	1670.2	1691.0	1690.0	1730.5	1774.0	1894.7	2170.6	2182.5	2438.6	2345.6	1908.5
32.5°	1743.4	1765.1	1772.1	1819.5	1854.1	2012.4	2318.9	2349.6	2589.9	2505.8	2004.5
35°	1834.4	1826.5	1858.1	1905.6	1979.7	2184.4	2499.9	2551.3	2753.0	2713.5	2103.3
37.5°	1948.1	1938.2	1968.9	2046.0	2146.9	2388.1	2667.0	2700.6	2871.7	2906.3	2286.3
40°	2028.2	2032.1	2125.1	2228.9	2335.7	2582.0	2772.8	2805.4	2954.8	3086.3	2424.7
42.5°	2161.7	2186.4	2298.2	2424.7	2536.5	2727.3	2858.8	2890.5	2993.3	3230.7	2611.6
45°	2355.5	2344.6	2468.2	2609.6	2733.3	2878.6	2960.7	2949.8	3016.1	3374.0	2729.3
47.5°	2604.7	2606.7	2688.8	2809.4	2938.0	3010.1	3074.4	3035.9	3063.5	3525.3	2886.5
50°	2774.8	2789.6	2855.9	2979.5	3043.8	3154.5	3236.6	3212.9	3204.0	3616.3	2985.4
52.5°	2818.3	2862.8	2898.4	3052.7	3203.0	3378.0	3482.8	3533.3	3375.0	3647.0	3111.0
55°	2490.0	2529.5	2655.1	2866.8	3263.3	3732.0	3876.4	3877.4	3598.5	3783.4	3199.0
57.5°	1990.6	1910.5	1987.6	2212.1	2759.0	3717.2	4068.2	4021.8	3710.3	3703.3	3122.9
60°	1376.5	1356.7	1361.7	1450.7	1909.5	2956.7	3625.2	3685.5	3416.6	3209.9	2472.2
62.5°	1090.7	1073.9	1052.2	1042.3	1185.7	1842.3	2557.2	2642.3	2389.1	2081.6	1465.5
65°	854.4	844.5	847.5	887.0	886.0	1045.2	1398.3	1363.7	1091.7	806.9	460.8
67.5°	576.5	591.3	603.2	722.9	784.2	727.8	675.4	655.6	355.0	149.3	101.9
70°	324.4	326.3	339.2	451.9	595.3	564.6	465.8	465.8	177.0	54.4	58.3
72.5°	177.0	171.1	159.2	194.8	265.0	269.0	207.7	181.0	52.4	35.6	32.6
75°	86.0	85.0	73.2	60.3	57.4	47.5	36.6	33.6	23.7	22.7	19.8
77.5°	17.8	16.8	8.9	8.9	9.9	10.9	13.8	13.8	16.8	16.8	13.8
80°	0.0	0.0	1.0	4.0	6.9	9.9	11.9	11.9	13.8	13.8	10.9
82.5°	0.0	0.0	1.0	3.0	5.9	8.9	10.9	11.9	13.8	14.8	11.9
85°	0.0	0.0	0.0	2.0	4.9	6.9	5.9	5.9	4.9	4.0	2.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2342.7	2342.7	2342.7	2342.7	2342.7	2342.7	2342.7	2342.7	2342.7	2342.7	2342.7
2.5°	2308.0	2306.1	2260.6	2234.9	2188.4	2147.8	2115.2	2091.5	2091.5	2076.6	2062.8
5°	2242.8	2226.0	2129.1	2066.8	1978.7	1913.5	1869.0	1834.4	1780.0	1794.8	1736.5
7.5°	2161.7	2119.2	1990.6	1895.7	1774.0	1681.1	1586.2	1502.1	1421.0	1384.4	1404.2
10°	2074.7	2000.5	1827.4	1677.1	1525.8	1355.8	1245.0	1110.5	1027.4	1022.5	1000.7
12.5°	1982.7	1898.6	1688.0	1480.3	1281.6	1076.9	907.8	782.2	725.8	663.5	675.4
15°	1913.5	1788.9	1532.8	1282.6	1018.5	811.9	641.8	544.9	491.5	476.6	471.7
17.5°	1838.3	1704.8	1374.5	1071.9	799.0	584.4	461.8	415.3	394.6	394.6	391.6
20°	1760.2	1609.9	1217.3	876.1	599.3	436.1	369.8	355.0	354.0	353.0	353.0
22.5°	1708.8	1501.1	1074.9	696.2	451.9	349.1	321.4	315.5	319.4	331.3	331.3
25°	1654.4	1396.3	917.7	537.0	350.1	299.6	283.8	287.8	297.7	308.5	304.6
27.5°	1599.0	1328.1	769.3	421.3	286.8	262.1	256.1	265.0	275.9	285.8	282.8
30°	1586.2	1254.9	628.9	319.4	246.2	228.4	232.4	240.3	251.2	255.1	259.1
32.5°	1605.9	1197.5	515.2	262.1	214.6	209.6	209.6	213.6	220.5	229.4	226.5
35°	1662.3	1164.9	407.4	227.4	196.8	191.8	190.9	194.8	198.8	201.7	198.8
37.5°	1748.3	1139.2	333.3	201.7	184.9	177.0	175.0	174.0	178.0	179.0	181.0
40°	1858.1	1153.0	282.8	185.9	173.1	164.2	158.2	158.2	158.2	161.2	162.2
42.5°	1976.8	1171.8	244.3	177.0	162.2	151.3	145.4	143.4	145.4	149.3	148.3
45°	2101.4	1208.4	219.5	163.2	152.3	138.4	130.5	128.6	133.5	141.4	140.4
47.5°	2218.1	1260.8	200.7	154.3	142.4	129.5	119.7	117.7	126.6	137.5	138.4
50°	2334.7	1351.8	193.8	147.3	135.5	120.6	111.7	109.8	119.7	133.5	136.5
52.5°	2469.2	1449.7	188.9	138.4	127.6	113.7	103.8	101.9	112.7	130.5	131.5
55°	2557.2	1532.8	184.9	122.6	112.7	102.8	94.9	93.9	105.8	121.6	125.6
57.5°	2454.4	1417.1	171.1	106.8	95.9	91.0	84.1	84.1	93.9	108.8	111.7
60°	1861.1	932.5	121.6	86.0	81.1	78.1	75.2	75.2	83.1	93.9	94.9
62.5°	1089.7	502.3	78.1	69.2	69.2	66.3	61.3	61.3	69.2	75.2	76.1
65°	323.4	161.2	63.3	59.3	58.3	53.4	48.5	47.5	53.4	56.4	55.4
67.5°	93.0	74.2	52.4	49.4	48.5	40.5	37.6	36.6	37.6	35.6	34.6
70°	55.4	50.4	40.5	41.5	36.6	29.7	26.7	25.7	23.7	20.8	18.8
72.5°	30.7	30.7	29.7	31.6	25.7	19.8	16.8	13.8	10.9	8.9	7.9
75°	18.8	19.8	20.8	21.8	16.8	12.9	10.9	6.9	4.0	2.0	2.0
77.5°	12.9	13.8	14.8	15.8	13.8	11.9	8.9	4.9	1.0	0.0	0.0
80°	9.9	10.9	12.9	13.8	14.8	15.8	11.9	4.9	1.0	0.0	0.0
82.5°	10.9	11.9	14.8	13.8	13.8	13.8	10.9	4.9	1.0	0.0	0.0
85°	2.0	3.0	4.9	4.9	6.9	8.9	6.9	2.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)