

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: P939919

Luminaire Tested: **GALN-SB2D-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18656 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 147.6
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



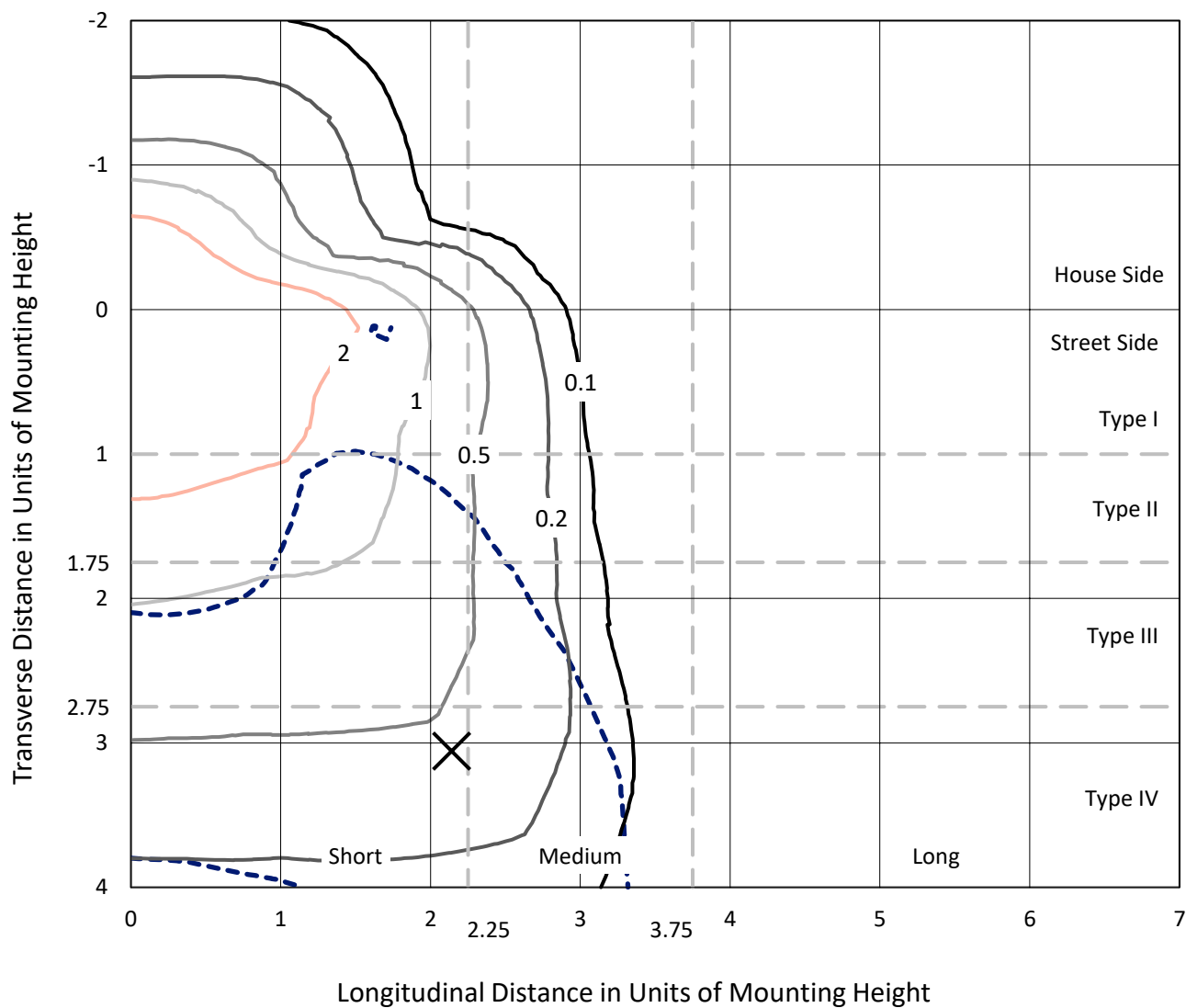
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



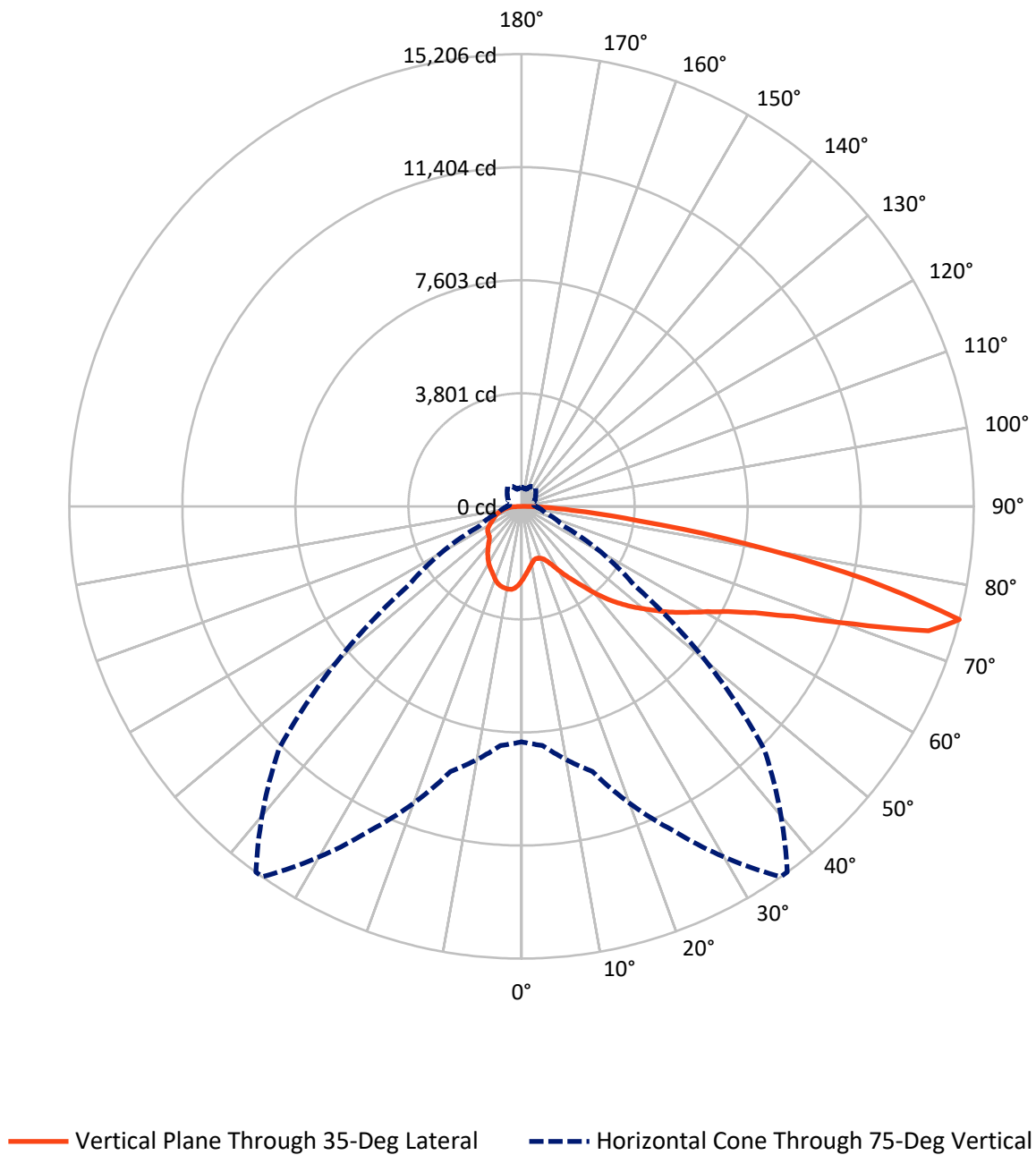
Based on 25 foot mounting height. Maximum calculated value = 4.4 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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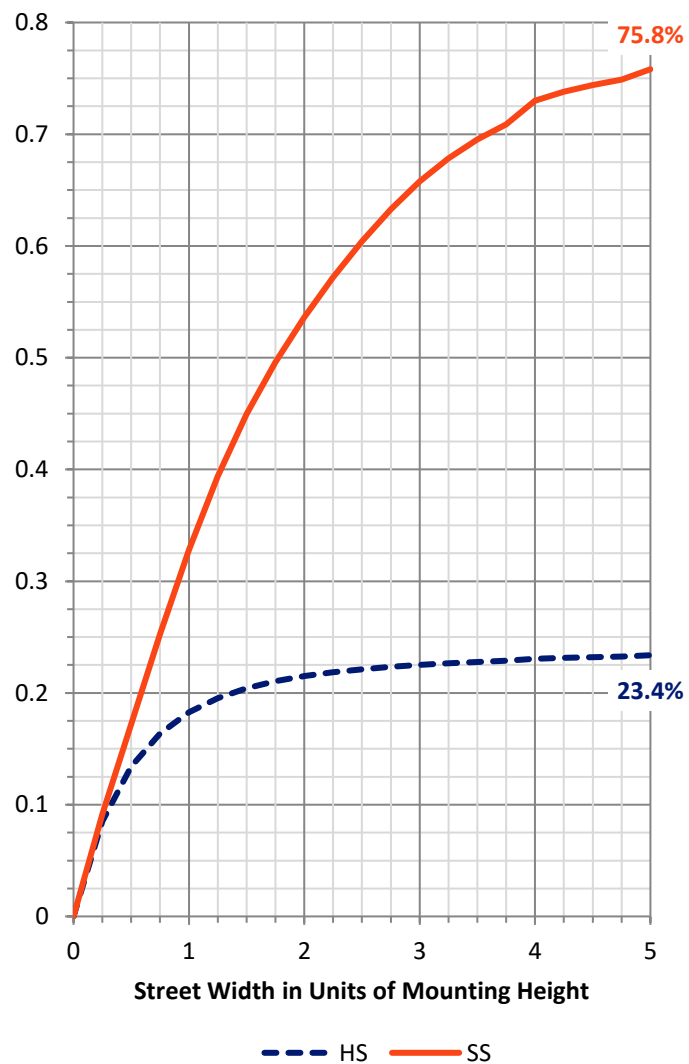
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4439.7	0.0	4439.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	14216.3	0.0	14216.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	18656.0	0.0	18656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.4	1.3
10°-20°	678.9	3.6
20°-30°	1140.1	6.1
30°-40°	1771.9	9.5
40°-50°	2629.9	14.1
50°-60°	3630.8	19.5
60°-70°	4405.0	23.6
70°-80°	3640.4	19.5
80°-90°	523.6	2.8
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°	18656.0	100.0
0°-180°	18656.0	100.0

Coefficient of Utilization



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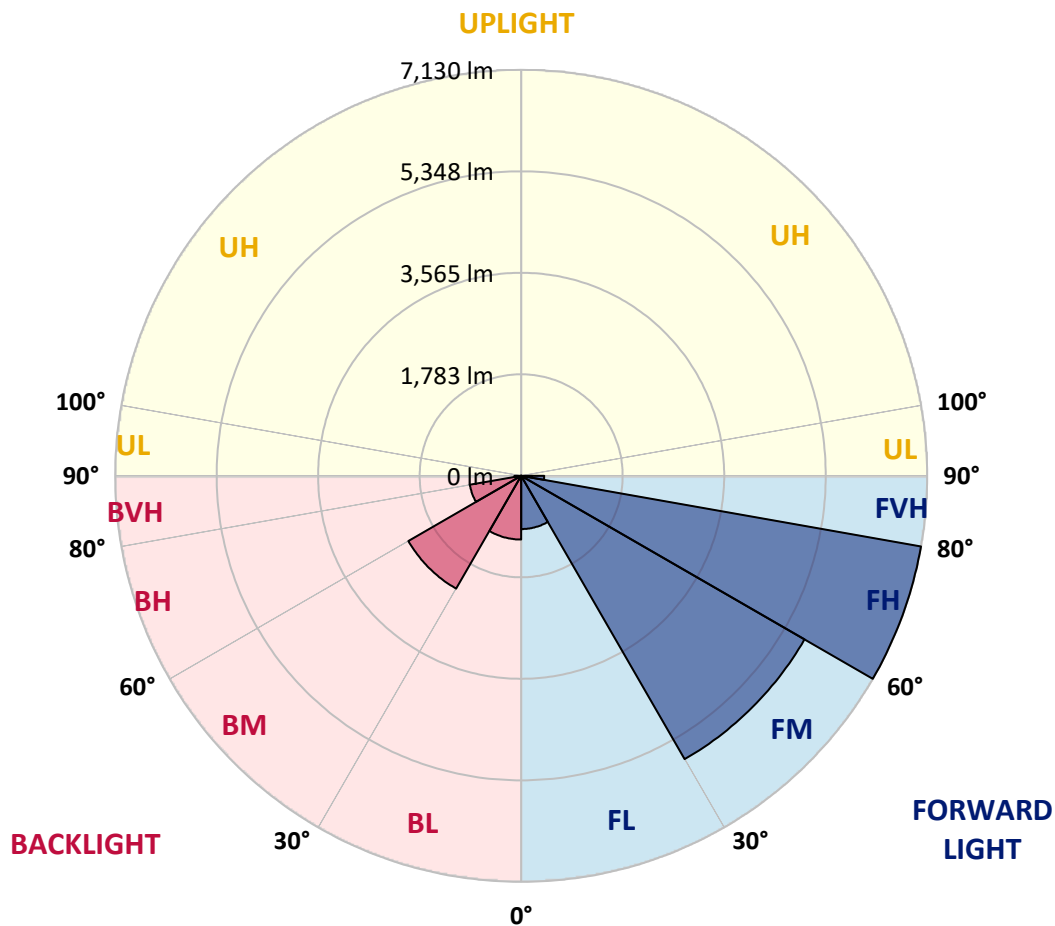
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	935.6	5.0			
FM	(30°-60°)	5745.0	30.8			
FH	(60°-80°)	7130.0	38.2			G3/7500
FVH	(80°-90°)	405.7	2.2			G3/500
BL	(0°-30°)	1118.9	6.0	B3/2500		
BM	(30°-60°)	2287.6	12.3	B2/2500		
BH	(60°-80°)	915.3	4.9	B2/1000		G2/1000
BVH	(80°-90°)	117.9	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0
2.5°	2292.4	2306.5	2312.6	2309.5	2324.7	2322.7	2343.8	2370.1	2406.4	2441.7	2493.1
5°	2115.9	2131.0	2144.1	2156.2	2185.5	2194.6	2227.9	2278.3	2344.8	2412.4	2497.1
7.5°	1951.5	1964.6	1984.8	2007.0	2056.4	2065.5	2120.9	2199.6	2292.4	2391.2	2508.2
10°	1817.4	1830.5	1851.7	1876.9	1938.4	1949.5	2020.1	2125.0	2246.0	2371.1	2520.3
12.5°	1759.9	1763.9	1776.0	1801.2	1854.7	1861.8	1939.4	2059.4	2200.6	2355.9	2538.5
15°	1756.9	1764.9	1765.9	1779.1	1823.4	1826.5	1898.1	2017.1	2172.4	2352.9	2565.7
17.5°	1787.1	1793.2	1784.1	1792.2	1829.5	1834.5	1891.0	1996.9	2163.3	2366.0	2612.1
20°	1867.8	1872.8	1845.6	1834.5	1861.8	1865.8	1921.3	2010.0	2172.4	2393.3	2675.6
22.5°	2039.3	2042.3	1975.7	1930.3	1932.4	1934.4	1982.8	2063.5	2207.7	2442.7	2756.3
25°	2306.5	2304.5	2198.6	2110.9	2060.4	2049.3	2081.6	2150.2	2267.2	2508.2	2860.2
27.5°	2619.2	2604.0	2498.1	2367.0	2257.1	2241.0	2233.9	2263.2	2351.9	2595.0	2987.3
30°	2972.2	2958.0	2844.1	2672.6	2520.3	2494.1	2427.5	2412.4	2478.0	2713.0	3163.8
32.5°	3359.4	3350.4	3214.2	3006.4	2802.7	2772.5	2660.5	2620.2	2671.6	2891.5	3409.9
35°	3684.2	3676.1	3563.2	3349.3	3100.2	3062.9	2949.0	2903.6	2929.8	3120.4	3731.6
37.5°	3977.7	3973.6	3876.8	3708.4	3451.2	3405.8	3277.7	3262.6	3257.6	3422.0	4121.9
40°	4250.0	4239.9	4139.0	4050.3	3859.7	3818.3	3705.4	3692.2	3653.9	3793.1	4563.6
42.5°	4551.5	4525.3	4379.1	4337.7	4286.3	4252.0	4184.4	4186.4	4101.7	4211.6	5031.6
45°	4797.6	4782.5	4632.2	4608.0	4663.5	4649.3	4707.8	4723.0	4558.6	4650.4	5517.7
47.5°	5061.8	5047.7	4920.6	4903.5	5053.8	5057.8	5264.6	5269.6	5004.3	5106.2	6004.8
50°	5387.6	5367.4	5241.4	5262.5	5431.0	5446.1	5824.3	5790.0	5414.8	5569.1	6487.9
52.5°	5602.4	5614.5	5587.3	5621.6	5851.5	5865.6	6374.9	6287.2	5821.3	6026.0	6961.9
55°	5760.8	5785.0	5869.7	5948.3	6295.3	6309.4	6894.3	6760.2	6158.1	6449.6	7407.7
57.5°	5964.5	5930.2	6088.5	6241.8	6716.8	6754.2	7399.6	7216.1	6456.6	6814.7	7713.3
60°	6256.9	6232.7	6355.8	6582.7	7188.8	7248.3	7934.1	7626.5	6675.5	7104.1	7772.8
62.5°	6850.0	6789.5	6808.6	7009.3	7783.9	7862.5	8537.2	7984.6	6784.4	7217.1	7454.1
65°	7736.5	7632.6	7535.8	7674.9	8622.0	8699.6	9218.0	8266.0	6744.1	6998.2	6607.9
67.5°	8852.9	8750.0	8631.0	8762.2	9856.4	9917.9	10058.1	8424.3	6426.4	6155.1	5112.3
70°	9773.7	9735.4	9877.6	10417.2	11828.1	11830.1	11135.2	8293.2	5556.0	4363.9	2958.0
72.5°	9651.7	9628.5	10377.8	12045.9	14313.1	14259.7	12154.9	7300.8	3742.7	1968.7	1108.4
75°	7918.0	8068.3	9229.1	12016.7	15205.7	15198.6	11530.6	4641.3	1548.1	815.9	572.8
77.5°	4245.9	4483.9	5991.7	8872.1	11870.5	12049.0	8106.6	1623.7	664.6	522.4	396.4
80°	1384.7	1592.5	2388.2	4517.2	7713.3	7680.0	3474.4	637.4	454.8	370.1	274.3
82.5°	588.0	612.2	1067.0	2133.1	3958.5	3897.0	1106.4	366.1	319.7	253.1	169.4
85°	229.9	257.2	471.0	986.3	1714.5	1677.2	399.4	181.5	204.7	165.4	100.9
87.5°	75.6	91.8	168.4	337.9	533.5	514.4	97.8	62.5	88.8	75.6	36.3
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°	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0	2486.0
2.5°	2507.2	2523.4	2542.5	2570.8	2595.0	2615.1	2636.3	2649.4	2654.5	2669.6	2668.6
5°	2525.4	2560.7	2608.1	2654.5	2699.8	2727.1	2751.3	2763.4	2774.5	2782.5	2784.6
7.5°	2555.6	2601.0	2675.6	2736.2	2774.5	2796.7	2812.8	2808.8	2812.8	2814.8	2817.8
10°	2581.8	2645.4	2734.1	2791.6	2820.9	2821.9	2817.8	2803.7	2796.7	2797.7	2799.7
12.5°	2613.1	2683.7	2779.5	2827.9	2836.0	2813.8	2796.7	2772.5	2763.4	2759.4	2757.3
15°	2655.5	2736.2	2828.9	2847.1	2826.9	2798.7	2769.4	2730.1	2709.9	2693.8	2698.8
17.5°	2706.9	2795.7	2867.3	2854.2	2810.8	2764.4	2717.0	2657.5	2616.1	2599.0	2600.0
20°	2778.5	2858.2	2896.5	2839.0	2773.5	2702.9	2622.2	2549.6	2511.3	2494.1	2492.1
22.5°	2865.2	2941.9	2924.8	2812.8	2720.0	2607.1	2506.2	2452.8	2433.6	2421.5	2423.5
25°	2969.1	3034.7	2944.9	2774.5	2632.3	2480.0	2402.3	2385.2	2376.1	2367.0	2367.0
27.5°	3104.3	3139.6	2960.0	2718.0	2495.1	2344.8	2316.6	2319.6	2316.6	2301.5	2304.5
30°	3282.8	3275.7	2974.2	2626.2	2337.8	2222.8	2224.8	2237.9	2240.0	2229.9	2234.9
32.5°	3517.8	3446.2	2981.2	2507.2	2187.5	2115.9	2117.9	2132.0	2142.1	2125.0	2133.1
35°	3802.2	3644.8	2970.1	2358.0	2071.5	2014.0	1998.9	2003.0	2006.0	1989.8	2000.9
37.5°	4134.0	3867.7	2920.7	2192.6	1975.7	1914.2	1881.9	1854.7	1838.6	1823.4	1833.5
40°	4498.1	4110.8	2829.9	2031.2	1868.8	1808.3	1759.9	1708.5	1654.0	1633.8	1642.9
42.5°	4879.3	4360.9	2720.0	1876.9	1745.8	1696.4	1644.9	1570.3	1488.6	1447.2	1452.3
45°	5274.6	4617.1	2612.1	1724.6	1619.7	1598.5	1539.0	1449.3	1360.5	1308.1	1304.0
47.5°	5661.9	4859.1	2453.8	1571.3	1501.7	1524.9	1478.5	1395.8	1297.0	1214.3	1205.2
50°	6032.0	5086.0	2194.6	1416.0	1405.9	1502.7	1458.3	1339.3	1226.4	1120.5	1111.4
52.5°	6399.2	5269.6	1862.8	1274.8	1354.5	1496.7	1432.1	1301.0	1162.8	1051.9	1039.8
55°	6710.8	5364.4	1543.1	1153.8	1279.8	1445.2	1400.9	1255.6	1073.1	955.1	945.0
57.5°	6888.3	5287.7	1276.8	1034.8	1177.0	1360.5	1347.4	1158.8	966.2	875.4	863.3
60°	6811.6	4977.1	1059.0	930.9	1079.1	1268.7	1254.6	1063.0	884.5	798.8	786.7
62.5°	6389.1	4385.1	886.5	840.1	990.4	1174.9	1161.8	989.4	822.0	739.3	726.1
65°	5537.9	3567.2	752.4	764.5	900.6	1062.0	1081.1	927.9	772.5	691.9	678.7
67.5°	4223.7	2583.9	647.5	698.9	812.9	951.0	1006.5	883.5	731.2	654.5	642.4
70°	2407.4	1467.4	558.7	635.4	735.2	848.2	949.0	848.2	686.8	623.3	615.2
72.5°	912.7	673.7	483.1	571.8	660.6	761.4	885.5	792.7	635.4	588.0	579.9
75°	487.1	410.5	406.4	497.2	574.9	676.7	805.8	738.2	597.1	621.3	641.4
77.5°	331.8	290.5	339.9	425.6	481.1	582.9	721.1	655.5	517.4	515.4	475.0
80°	229.9	205.7	276.3	342.9	372.1	490.1	629.3	562.8	421.6	393.3	376.2
82.5°	138.2	134.1	206.7	256.2	263.2	378.2	521.4	472.0	344.9	300.5	302.6
85°	75.6	79.7	132.1	150.3	153.3	264.2	408.5	365.1	265.2	222.9	224.9
87.5°	21.2	27.2	48.4	59.5	73.6	137.2	243.1	216.8	133.1	92.8	92.8
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)