

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: P955197

Luminaire Tested: **GALN-SB8B-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8B-722-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38313 lumens
Efficiency: N/A
Efficacy: 130.9 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): 292.8
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

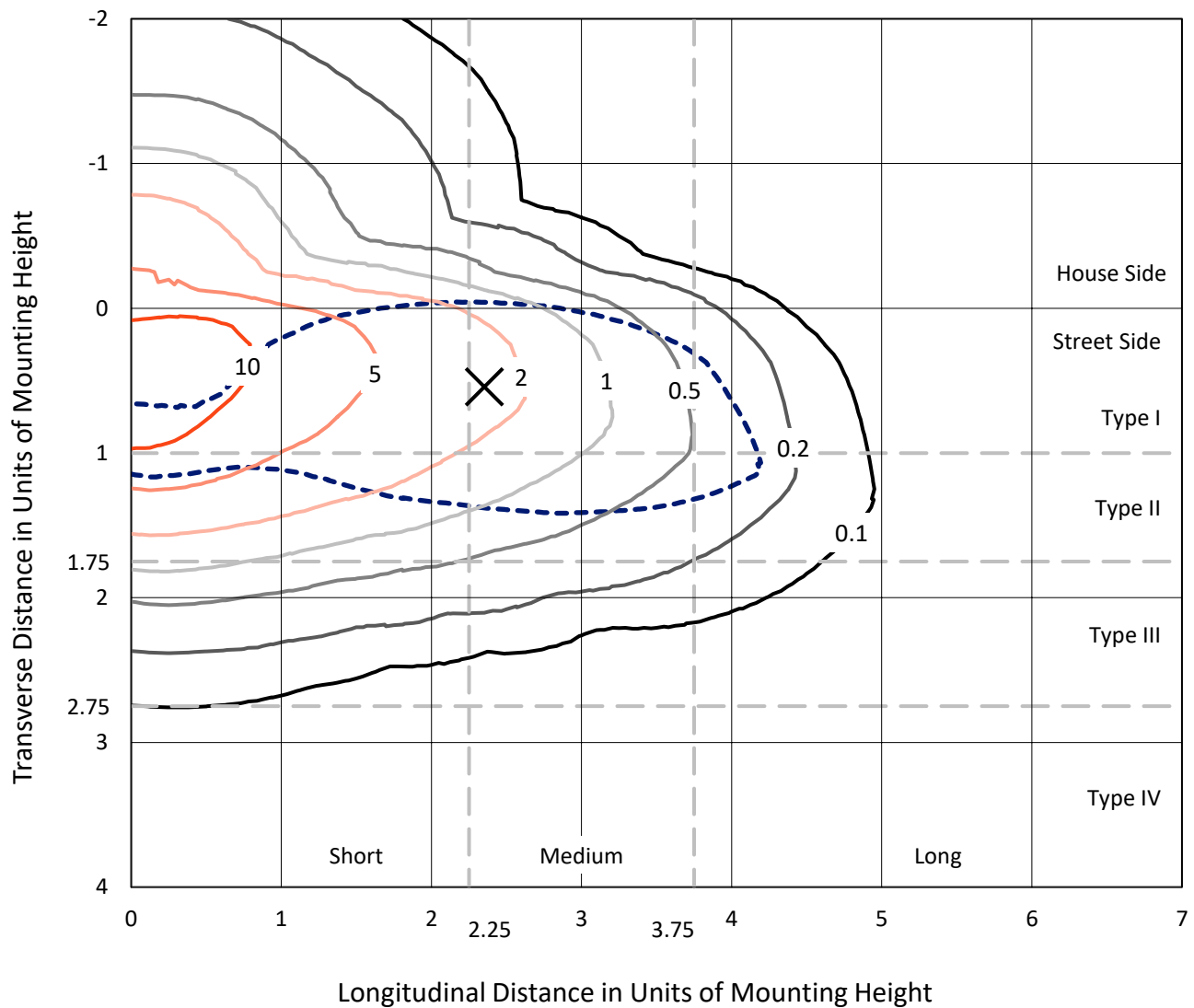


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

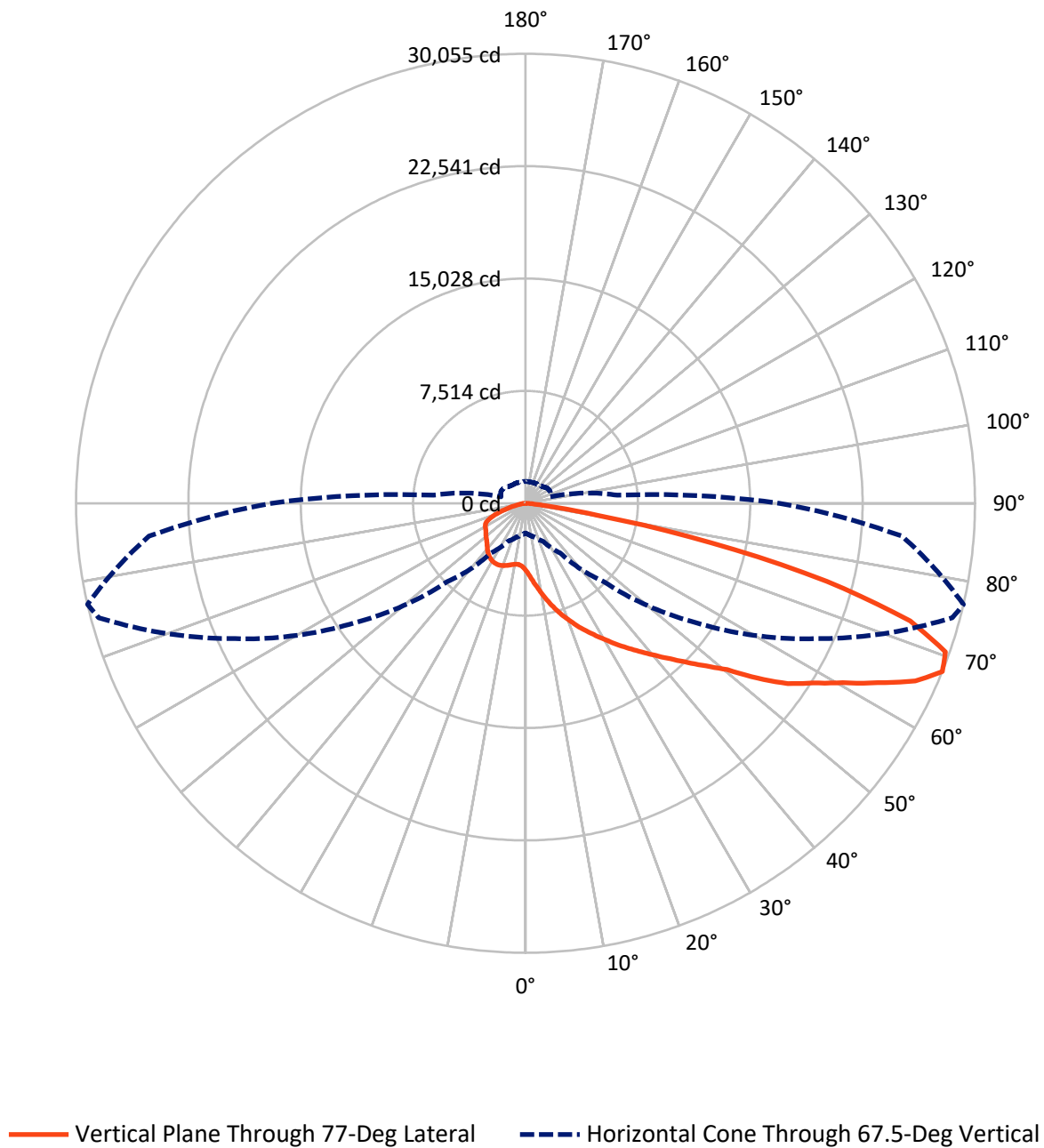


Based on 25 foot mounting height. Maximum calculated value = 14 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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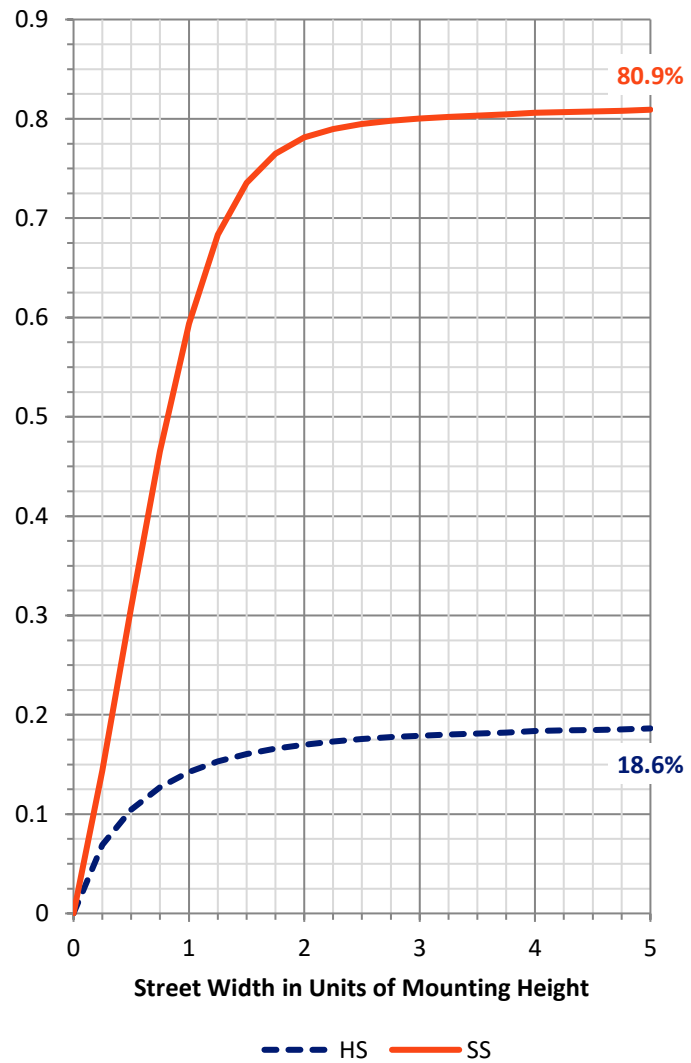
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7247.3	0.0	7247.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	31065.7	0.0	31065.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	38313.0	0.0	38313.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.8	1.3
10°-20°	1731.0	4.5
20°-30°	3268.4	8.5
30°-40°	5265.3	13.7
40°-50°	7202.0	18.8
50°-60°	8123.9	21.2
60°-70°	7582.6	19.8
70°-80°	4156.6	10.8
80°-90°	501.4	1.3
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°	38313.0	100.0
0°-180°	38313.0	100.0

Coefficient of Utilization



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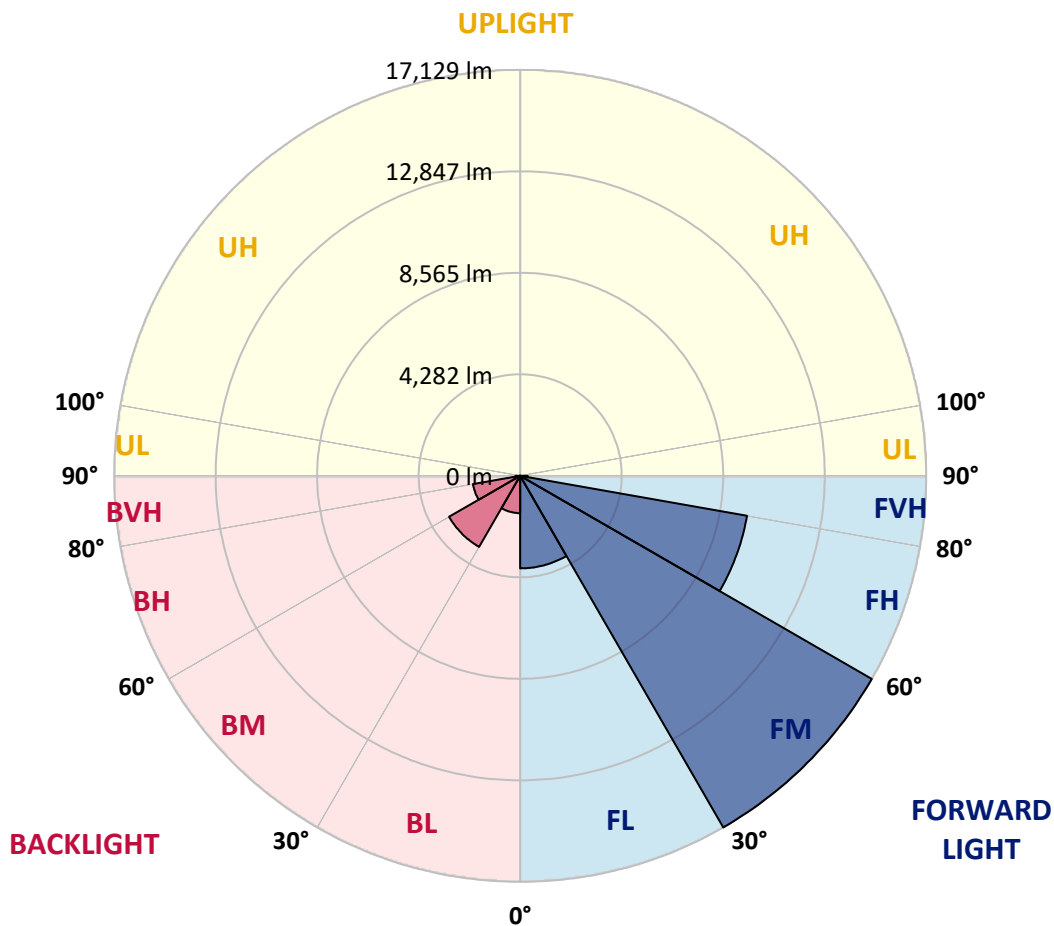
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3905.5	10.2			
FM	(30°-60°)	17129.3	44.7			
FH	(60°-80°)	9717.3	25.4			G4/12000
FVH	(80°-90°)	313.6	0.8			G3/500
BL	(0°-30°)	1575.7	4.1	B3/2500		
BM	(30°-60°)	3461.8	9.0	B3/5000		
BH	(60°-80°)	2021.9	5.3	B3/2500		G3/2500
BVH	(80°-90°)	187.8	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°	75°	77°	85°
0°	4495.3	4495.3	4495.3	4495.3	4495.3	4495.3	4495.3	4495.3	4495.3	4495.3	4495.3
2.5°	5628.5	5668.1	5618.6	5618.6	5452.5	5365.5	5199.4	5072.8	4845.4	4805.8	4655.5
5°	6653.0	6702.4	6633.2	6603.5	6407.7	6227.8	5948.9	5674.0	5268.6	5227.1	4873.0
7.5°	7446.0	7509.3	7448.0	7416.4	7242.3	7040.6	6714.3	6330.6	5759.1	5678.0	5165.7
10°	8092.7	8102.6	8082.8	8094.7	7958.3	7792.1	7457.9	7010.9	6297.0	6186.2	5519.8
12.5°	8458.6	8504.1	8543.7	8614.8	8591.1	8488.3	8187.7	7653.7	6866.6	6724.2	5905.4
15°	8630.7	8709.8	8798.8	8962.9	9095.4	9121.1	8891.7	8343.9	7446.0	7274.0	6295.0
17.5°	8692.0	8767.1	8907.5	9144.9	9429.7	9621.5	9518.7	9014.3	8019.6	7821.8	6704.4
20°	9002.5	9024.2	9109.3	9334.7	9643.3	9961.7	10038.8	9659.1	8587.2	8363.7	7127.6
22.5°	9667.0	9623.5	9647.2	9750.0	9971.5	10280.1	10456.1	10228.6	9170.6	8913.5	7554.8
25°	10764.6	10638.0	10511.5	10392.8	10505.5	10679.6	10879.3	10798.2	9781.7	9455.4	7985.9
27.5°	12151.0	11996.7	11717.9	11328.2	11191.8	11253.1	11342.1	11326.3	10347.3	10017.0	8430.9
30°	13515.6	13335.6	13003.4	12439.7	12079.8	11917.6	11850.4	11804.9	10962.4	10610.3	8879.9
32.5°	14605.3	14462.9	14136.6	13505.7	12983.6	12706.7	12483.2	12321.1	11605.1	11253.1	9354.5
35°	15558.5	15426.0	15052.3	14364.0	13796.4	13501.7	13209.0	12862.9	12273.6	11917.6	9864.8
37.5°	16428.7	16296.2	15784.0	15068.1	14496.5	14292.8	14031.8	13444.4	12944.0	12607.8	10404.7
40°	16978.5	16948.9	16470.3	15659.4	15066.1	14965.2	14878.2	14118.8	13687.6	13375.2	10998.0
42.5°	17118.9	17184.2	16804.5	16138.0	15572.4	15491.3	15695.0	14882.2	14522.2	14223.6	11670.4
45°	16780.8	16968.6	16719.5	16266.6	15932.3	15888.8	16418.8	15716.8	15445.8	15172.9	12481.2
47.5°	15924.4	16242.8	16140.0	16076.7	16029.2	16217.1	17055.7	16602.8	16492.0	16254.7	13406.8
50°	14195.9	14799.1	14979.1	15378.6	15837.4	16472.2	17635.1	17569.9	17714.2	17474.9	14534.1
52.5°	11207.6	12038.2	13082.5	14083.2	15248.0	16387.2	18271.9	18958.2	19567.3	19436.8	16325.9
55°	9251.7	9625.5	10428.4	12263.7	14104.9	16029.2	18558.7	20079.6	21406.6	21289.9	17684.6
57.5°	7748.6	8082.8	8577.3	10110.0	12376.4	15216.4	18736.7	20763.8	22666.4	22654.5	19025.4
60°	6136.8	6490.8	6997.1	8082.8	10357.2	13812.2	18697.1	21543.1	24274.3	24373.1	20661.0
62.5°	4317.3	4706.9	5268.6	6281.2	8294.5	11992.8	17890.2	22106.7	26166.9	26435.9	22628.8
65°	2838.0	3095.1	3518.3	4392.5	6180.3	9653.1	16349.6	22179.9	28192.1	28646.9	24476.0
67.5°	1989.6	2088.4	2337.6	2812.3	4074.1	7402.5	13895.3	21422.4	29542.8	30055.1	25276.9
70°	1552.5	1601.9	1728.5	1918.4	2559.1	4977.9	10647.9	19452.6	29254.1	29788.1	24440.4
72.5°	1340.9	1388.3	1435.8	1459.5	1716.6	3073.3	7212.7	16264.6	26534.8	26896.7	21250.4
75°	1216.3	1228.1	1267.7	1259.8	1309.2	1993.5	4163.1	11850.4	20935.9	20811.3	15687.1
77.5°	1022.5	1038.3	1103.6	1093.7	1162.9	1362.6	2161.6	7647.8	13572.9	12726.5	8731.5
80°	866.2	874.1	945.3	933.5	1010.6	986.9	1103.6	3898.0	5757.1	4877.0	2517.6
82.5°	300.6	371.8	721.9	743.6	771.3	597.3	636.8	1590.1	1758.2	1346.8	528.0
85°	146.3	156.2	367.9	522.1	520.1	300.6	310.5	567.6	553.8	435.1	176.0
87.5°	23.7	29.7	43.5	203.7	162.2	79.1	106.8	110.8	114.7	98.9	39.6
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°	4495.3	4495.3	4495.3	4495.3	4495.3	4495.3	4495.3	4495.3	4495.3	4495.3	4495.3
2.5°	4544.7	4445.9	4238.2	4046.4	3896.1	3751.7	3670.6	3601.4	3561.8	3553.9	3553.9
5°	4667.4	4463.7	4085.9	3767.5	3559.9	3405.6	3324.5	3273.1	3247.4	3231.6	3229.6
7.5°	4843.4	4544.7	4006.8	3644.9	3427.3	3316.6	3275.1	3267.2	3265.2	3267.2	3273.1
10°	5086.6	4677.3	3998.9	3615.2	3433.3	3372.0	3370.0	3372.0	3379.9	3381.9	3383.8
12.5°	5349.7	4813.7	4030.5	3640.9	3508.4	3474.8	3468.9	3466.9	3472.8	3476.8	3478.8
15°	5636.4	4993.7	4083.9	3696.3	3591.5	3555.9	3550.0	3538.1	3536.1	3534.1	3532.2
17.5°	5931.1	5171.7	4143.3	3755.6	3644.9	3595.5	3573.7	3546.0	3524.3	3518.3	3524.3
20°	6229.7	5347.7	4184.8	3785.3	3648.9	3579.6	3536.1	3488.7	3451.1	3429.3	3437.2
22.5°	6548.2	5531.6	4210.5	3777.4	3613.3	3518.3	3439.2	3383.8	3326.5	3288.9	3290.9
25°	6858.7	5691.8	4208.5	3735.9	3544.0	3423.4	3322.5	3251.3	3172.2	3132.7	3132.7
27.5°	7157.3	5836.2	4159.1	3662.7	3445.1	3310.7	3190.0	3105.0	3027.9	2990.3	2988.3
30°	7465.8	5956.8	4082.0	3555.9	3328.5	3180.1	3047.6	2974.5	2905.2	2869.6	2867.7
32.5°	7772.3	6067.6	3973.2	3423.4	3194.0	3051.6	2921.1	2853.8	2812.3	2812.3	2814.3
35°	8096.7	6144.7	3828.8	3269.1	3051.6	2915.1	2812.3	2772.7	2768.8	2745.0	2739.1
37.5°	8438.8	6194.1	3652.8	3110.9	2911.2	2782.6	2751.0	2703.5	2664.0	2612.5	2604.6
40°	8798.8	6243.6	3441.2	2946.8	2762.8	2691.6	2677.8	2614.5	2501.8	2375.2	2357.4
42.5°	9235.8	6277.2	3221.7	2782.6	2606.6	2582.9	2602.6	2493.9	2313.9	2219.0	2221.0
45°	9742.1	6332.6	3019.9	2620.4	2446.4	2446.4	2529.5	2387.1	2238.8	2179.4	2189.3
47.5°	10398.7	6461.1	2832.1	2442.5	2298.1	2337.6	2367.3	2258.5	2175.5	2102.3	2100.3
50°	11348.0	6769.7	2638.2	2262.5	2185.4	2264.5	2222.9	2159.6	2062.7	2003.4	1997.5
52.5°	12526.7	6951.6	2466.2	2100.3	2088.4	2167.6	2108.2	2048.9	1975.7	1896.6	1880.8
55°	13329.7	6985.2	2321.8	1981.7	2023.2	2015.3	1993.5	1940.1	1900.6	1795.7	1797.7
57.5°	14227.6	7052.5	2203.2	1910.5	1981.7	1894.6	1886.7	1841.2	1789.8	1718.6	1694.9
60°	15301.4	7157.3	2100.3	1882.8	1946.1	1815.5	1776.0	1758.2	1706.8	1671.2	1681.0
62.5°	16472.2	7252.2	1995.5	1886.7	1904.5	1738.4	1679.1	1673.1	1641.5	1629.6	1629.6
65°	17271.2	6993.1	1865.0	1882.8	1839.3	1659.3	1584.1	1582.2	1556.4	1552.5	1550.5
67.5°	16992.4	6172.4	1689.0	1827.4	1772.0	1580.2	1497.1	1489.2	1455.6	1457.6	1457.6
70°	15596.1	5001.6	1445.7	1690.9	1689.0	1509.0	1406.1	1380.4	1334.9	1342.9	1350.8
72.5°	12977.6	3706.2	1119.4	1463.5	1556.4	1443.7	1301.3	1259.8	1202.4	1210.4	1208.4
75°	9372.3	2519.6	814.8	1113.4	1354.7	1366.6	1198.5	1127.3	1058.1	1069.9	1073.9
77.5°	4795.9	1427.9	599.2	767.3	1064.0	1242.0	1105.5	1010.6	994.8	1105.5	1089.7
80°	1564.4	715.9	415.3	537.9	698.1	1016.5	969.1	860.3	856.3	882.1	757.5
82.5°	466.7	302.6	267.0	354.0	385.7	779.2	836.6	650.7	559.7	589.4	609.1
85°	160.2	146.3	152.3	176.0	183.9	456.8	585.4	431.1	407.4	448.9	443.0
87.5°	37.6	51.4	43.5	39.6	39.6	110.8	227.4	180.0	249.2	166.1	160.2
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)