

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: P948794

Luminaire Tested: **GALN-SB3D-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-727-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28699 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 218.1
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



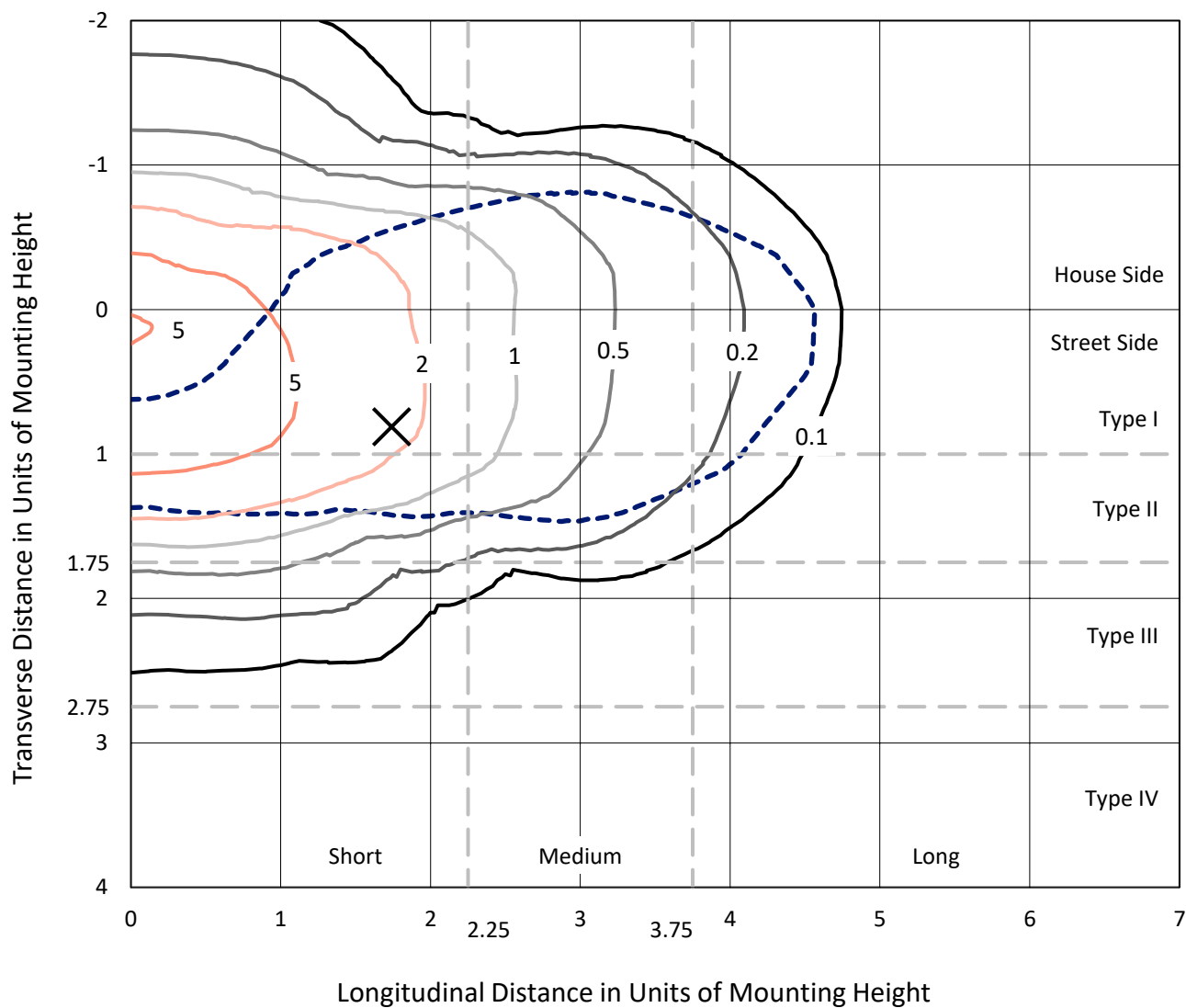
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Iso-Footcandle Lines of Horizontal Illumination

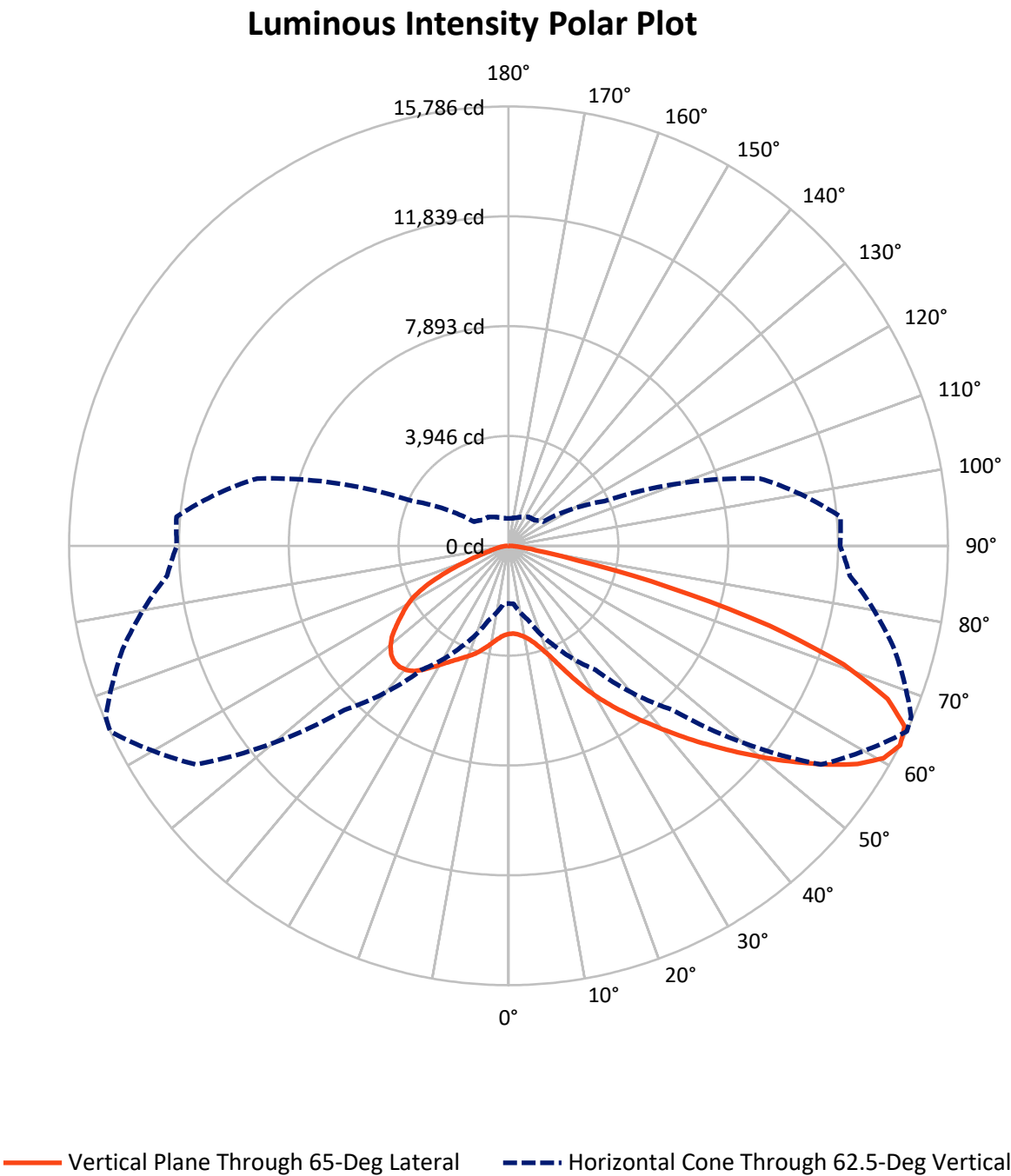
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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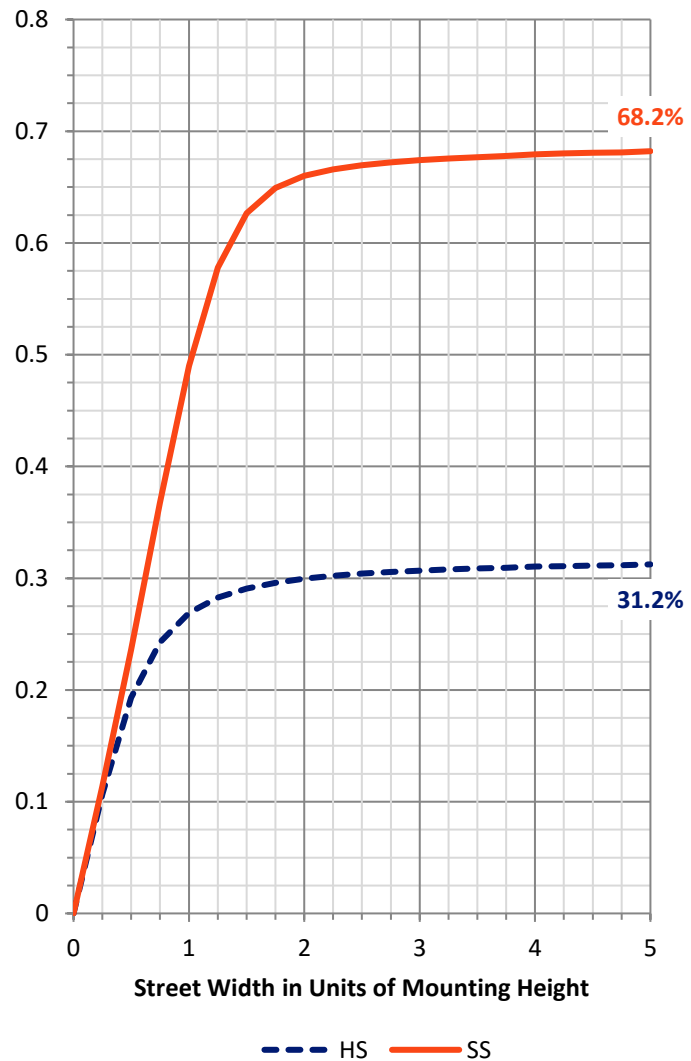
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9056.1	0.0	9056.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	19642.9	0.0	19642.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	28699.0	0.0	28699.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.3	1.1
10°-20°	1069.2	3.7
20°-30°	2167.9	7.6
30°-40°	3751.6	13.1
40°-50°	5677.3	19.8
50°-60°	6656.2	23.2
60°-70°	5580.4	19.4
70°-80°	3080.9	10.7
80°-90°	400.2	1.4
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°	28699.0	100.0
0°-180°	28699.0	100.0

Coefficient of Utilization



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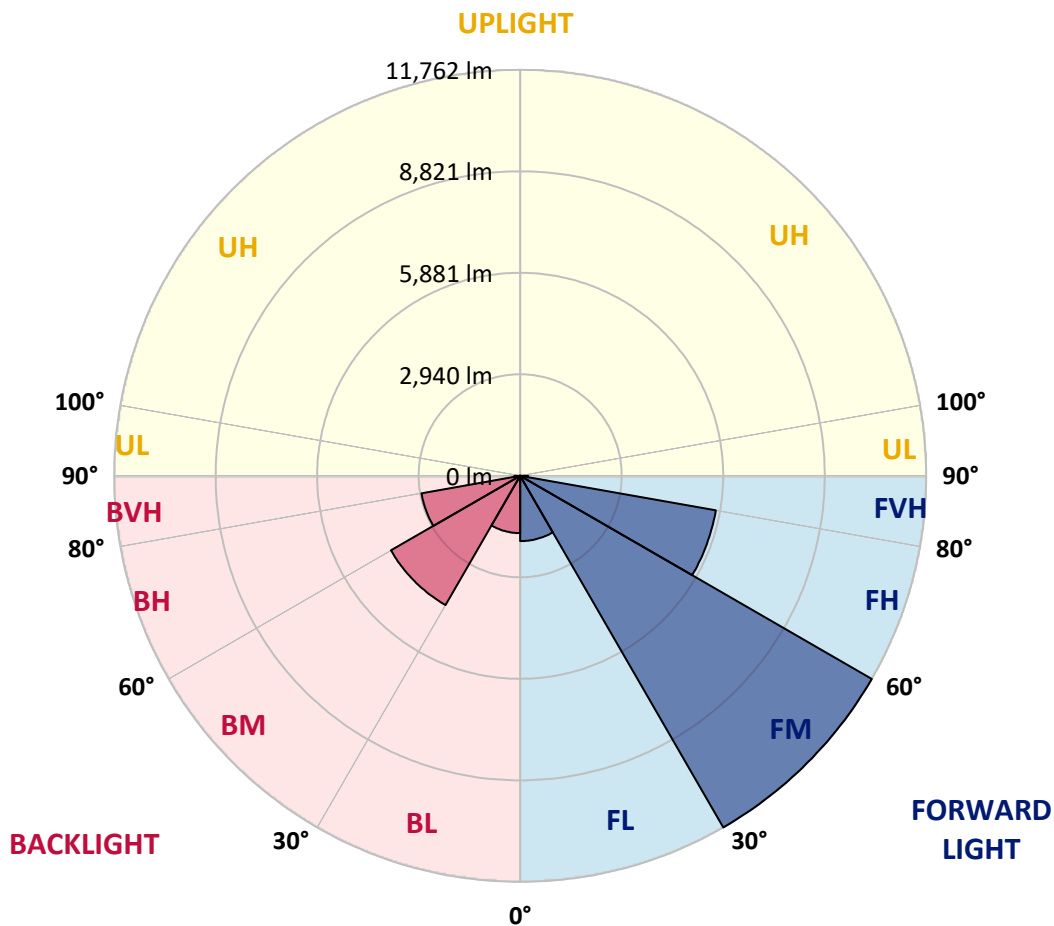
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1891.6	6.6			
FM	(30°-60°)	11761.8	41.0			
FH	(60°-80°)	5756.2	20.1			G3/7500
FVH	(80°-90°)	233.2	0.8			G3/500
BL	(0°-30°)	1660.8	5.8	B3/2500		
BM	(30°-60°)	4323.3	15.1	B3/5000		
BH	(60°-80°)	2905.1	10.1	B4/5000		G4/5000
BVH	(80°-90°)	166.9	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5
2.5°	3141.7	3132.7	3140.2	3140.2	3143.1	3141.7	3152.1	3155.1	3159.5	3168.5	3168.5
5°	3110.4	3108.9	3122.3	3134.2	3146.1	3156.5	3170.0	3189.3	3192.3	3202.7	3216.1
7.5°	3100.0	3091.0	3111.9	3126.8	3155.1	3180.4	3216.1	3248.9	3262.3	3266.7	3292.0
10°	3180.4	3165.5	3184.8	3193.8	3217.6	3242.9	3284.6	3336.7	3351.6	3369.5	3397.8
12.5°	3317.4	3301.0	3329.3	3342.7	3365.0	3387.3	3415.6	3466.2	3473.7	3506.5	3533.3
15°	3505.0	3485.6	3503.5	3519.9	3557.1	3577.9	3606.2	3655.3	3655.3	3680.7	3700.0
17.5°	3759.6	3734.3	3747.7	3753.6	3777.4	3808.7	3856.4	3899.5	3921.9	3912.9	3886.1
20°	4139.2	4108.0	4108.0	4078.2	4069.3	4094.6	4157.1	4216.7	4240.5	4194.3	4128.8
22.5°	4709.5	4664.8	4639.5	4538.3	4498.1	4501.1	4563.6	4636.6	4655.9	4574.0	4426.6
25°	5434.6	5364.6	5330.4	5181.5	5090.7	5011.8	5060.9	5154.7	5181.5	5080.3	4842.0
27.5°	6159.7	6164.2	6131.4	5952.8	5802.4	5658.0	5632.7	5730.9	5759.2	5644.6	5349.8
30°	7176.7	7071.0	7008.4	6794.0	6579.6	6377.1	6272.9	6313.1	6320.5	6183.6	5841.1
32.5°	8053.7	8026.9	7892.9	7705.3	7429.8	7112.7	6938.5	6874.4	6862.5	6667.5	6261.0
35°	9052.7	9037.9	8896.4	8673.1	8375.3	7934.6	7620.4	7437.2	7422.4	7148.4	6676.4
37.5°	10068.2	10068.2	9929.7	9685.5	9377.3	8826.4	8348.5	8058.1	8010.5	7653.1	7099.3
40°	10878.2	10829.0	10854.4	10751.6	10398.7	9813.6	9157.0	8735.6	8671.6	8242.8	7548.9
42.5°	11338.3	11321.9	11473.8	11588.4	11444.0	10976.5	10047.4	9469.6	9380.3	8891.9	8067.1
45°	11441.0	11423.1	11694.1	12114.0	12316.5	12124.4	11015.2	10242.4	10133.7	9570.9	8622.4
47.5°	11204.3	11168.5	11566.1	12228.7	12877.8	13215.8	12063.4	11080.7	10922.9	10232.0	9192.7
50°	10492.5	10458.3	11059.8	11939.8	13066.9	13957.3	13200.9	11969.6	11728.4	10940.7	9768.9
52.5°	8945.5	8961.9	9904.4	11113.4	12818.3	14418.9	14180.7	12906.1	12615.8	11665.8	10309.4
55°	6968.2	7004.0	8162.4	9493.5	11823.7	14348.9	14849.2	13871.0	13582.1	12347.8	10867.8
57.5°	4989.4	5147.3	6232.7	7550.4	9913.4	13239.6	14995.1	14788.1	14508.2	13092.2	11414.2
60°	3234.0	3262.3	4379.0	5707.1	7548.9	11268.3	14698.8	15483.5	15264.6	13851.6	11871.3
62.5°	2072.6	2092.0	2772.4	3991.8	5433.1	8336.6	13701.2	15785.7	15718.7	14353.4	12310.5
65°	1523.2	1508.3	1862.7	2638.4	3659.8	5141.3	11764.1	15639.8	15772.3	14667.5	12673.8
67.5°	1271.6	1250.7	1424.9	1826.9	2696.5	2919.8	8704.3	14691.4	15176.8	14631.8	12940.4
70°	1158.4	1140.5	1246.2	1356.4	2103.9	1955.0	4387.9	12772.1	13519.6	14225.3	12897.2
72.5°	981.2	949.9	1094.4	1204.6	1636.3	1499.4	1813.5	9810.6	10721.8	12922.5	12289.7
75°	760.8	740.0	863.6	1060.1	1229.9	1170.3	1146.5	5957.2	6951.9	9993.8	10751.6
77.5°	603.0	574.7	687.9	826.4	1106.3	882.9	835.3	2565.4	3551.1	6380.1	8044.7
80°	454.1	428.8	522.6	653.6	850.2	665.6	540.5	1046.7	1338.6	3232.5	4045.4
82.5°	323.1	300.8	364.8	479.4	571.8	597.1	332.0	586.6	659.6	1246.2	903.8
85°	207.0	193.6	244.2	300.8	363.3	384.1	202.5	306.7	336.5	513.7	376.7
87.5°	113.2	92.3	131.0	140.0	168.3	153.4	96.8	111.7	120.6	186.1	159.3
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°	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5
2.5°	3174.4	3178.9	3193.8	3198.2	3208.7	3222.1	3231.0	3239.9	3239.9	3248.9	3248.9
5°	3217.6	3228.0	3259.3	3275.7	3302.5	3329.3	3345.6	3365.0	3376.9	3382.9	3385.8
7.5°	3301.0	3317.4	3362.0	3390.3	3436.5	3473.7	3499.0	3525.8	3531.8	3548.1	3542.2
10°	3414.1	3433.5	3484.1	3537.7	3592.8	3639.0	3662.8	3682.1	3689.6	3692.6	3685.1
12.5°	3543.7	3572.0	3637.5	3703.0	3761.1	3801.3	3807.2	3802.7	3781.9	3764.0	3764.0
15°	3703.0	3728.3	3801.3	3872.7	3929.3	3936.8	3899.5	3875.7	3850.4	3845.9	3845.9
17.5°	3893.6	3907.0	3974.0	4044.0	4048.4	4023.1	3968.0	3945.7	3921.9	3905.5	3907.0
20°	4115.4	4111.0	4158.6	4188.4	4157.1	4079.7	3996.3	3959.1	3935.3	3915.9	3917.4
22.5°	4380.5	4346.2	4340.3	4332.8	4249.4	4087.1	3974.0	3926.3	3889.1	3862.3	3871.2
25°	4766.1	4635.1	4544.2	4493.6	4306.0	4046.9	3902.5	3796.8	3726.8	3680.7	3698.5
27.5°	5248.5	5028.1	4798.8	4675.3	4306.0	3965.0	3729.8	3558.6	3443.9	3396.3	3420.1
30°	5708.6	5477.8	5139.8	4894.1	4295.6	3831.0	3451.4	3213.1	3079.1	3031.5	3059.8
32.5°	6101.7	5850.0	5501.6	5133.9	4270.3	3613.7	3105.9	2842.4	2712.8	2656.3	2684.6
35°	6466.5	6198.5	5864.9	5397.4	4203.3	3295.0	2726.2	2525.2	2380.8	2290.0	2319.8
37.5°	6840.2	6521.6	6208.9	5635.6	4082.7	2922.8	2434.4	2263.2	2093.4	1971.4	2004.1
40°	7246.7	6865.5	6576.6	5777.1	3884.6	2568.4	2208.1	2051.8	1871.6	1742.1	1767.4
42.5°	7721.6	7277.9	6986.1	5850.0	3613.7	2316.8	2060.7	1907.3	1737.6	1631.9	1652.7
45°	8217.5	7732.1	7359.8	5848.6	3311.4	2199.2	2013.0	1861.2	1673.6	1563.4	1581.3
47.5°	8737.1	8207.0	7682.9	5753.3	3049.3	2215.5	1986.2	1761.4	1554.5	1447.2	1462.1
50°	9258.2	8726.7	7995.6	5574.6	2937.7	2179.8	1886.5	1621.5	1377.3	1280.5	1286.4
52.5°	9774.9	9279.1	8265.1	5320.0	2824.5	2047.3	1758.4	1439.8	1304.3	1237.3	1237.3
55°	10294.5	9825.5	8558.4	4949.2	2541.6	1892.4	1544.0	1371.3	1246.2	1185.2	1179.2
57.5°	10815.6	10456.8	8836.8	4578.5	2185.8	1701.9	1426.4	1287.9	1188.2	1136.1	1127.1
60°	11357.6	11179.0	9124.2	4237.5	1834.4	1457.7	1340.0	1220.9	1119.7	1061.6	1057.1
62.5°	11916.0	11974.0	9349.0	3798.3	1511.3	1308.8	1262.6	1140.5	1042.3	987.2	985.7
65°	12478.8	12740.8	9496.4	3189.3	1225.4	1167.3	1179.2	1052.7	952.9	905.3	903.8
67.5°	12903.1	13293.2	9454.8	2413.6	1005.0	1033.3	1075.0	960.4	866.6	829.3	830.8
70°	12950.8	13227.7	9043.8	1652.7	841.3	902.3	958.9	869.5	772.8	746.0	747.4
72.5°	12316.5	12334.4	7898.8	1079.5	711.7	792.1	836.8	777.2	683.4	656.6	655.1
75°	10653.4	10200.7	5799.4	711.7	595.6	680.4	722.1	680.4	589.6	595.6	574.7
77.5°	8071.5	7224.3	3521.3	506.2	497.3	571.8	628.3	598.6	521.1	585.2	515.2
80°	4158.6	3908.5	1570.8	378.2	393.1	457.1	516.7	477.9	412.4	393.1	358.8
82.5°	952.9	1107.8	619.4	271.0	284.4	329.1	394.6	358.8	296.3	250.1	247.2
85°	333.5	364.8	274.0	169.7	166.8	205.5	268.0	239.7	201.0	160.8	169.7
87.5°	105.7	138.5	102.7	68.5	71.5	92.3	123.6	113.2	93.8	61.0	64.0
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)