

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: P941444

Luminaire Tested: **GALN-SB5A-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15348 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 141.7
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

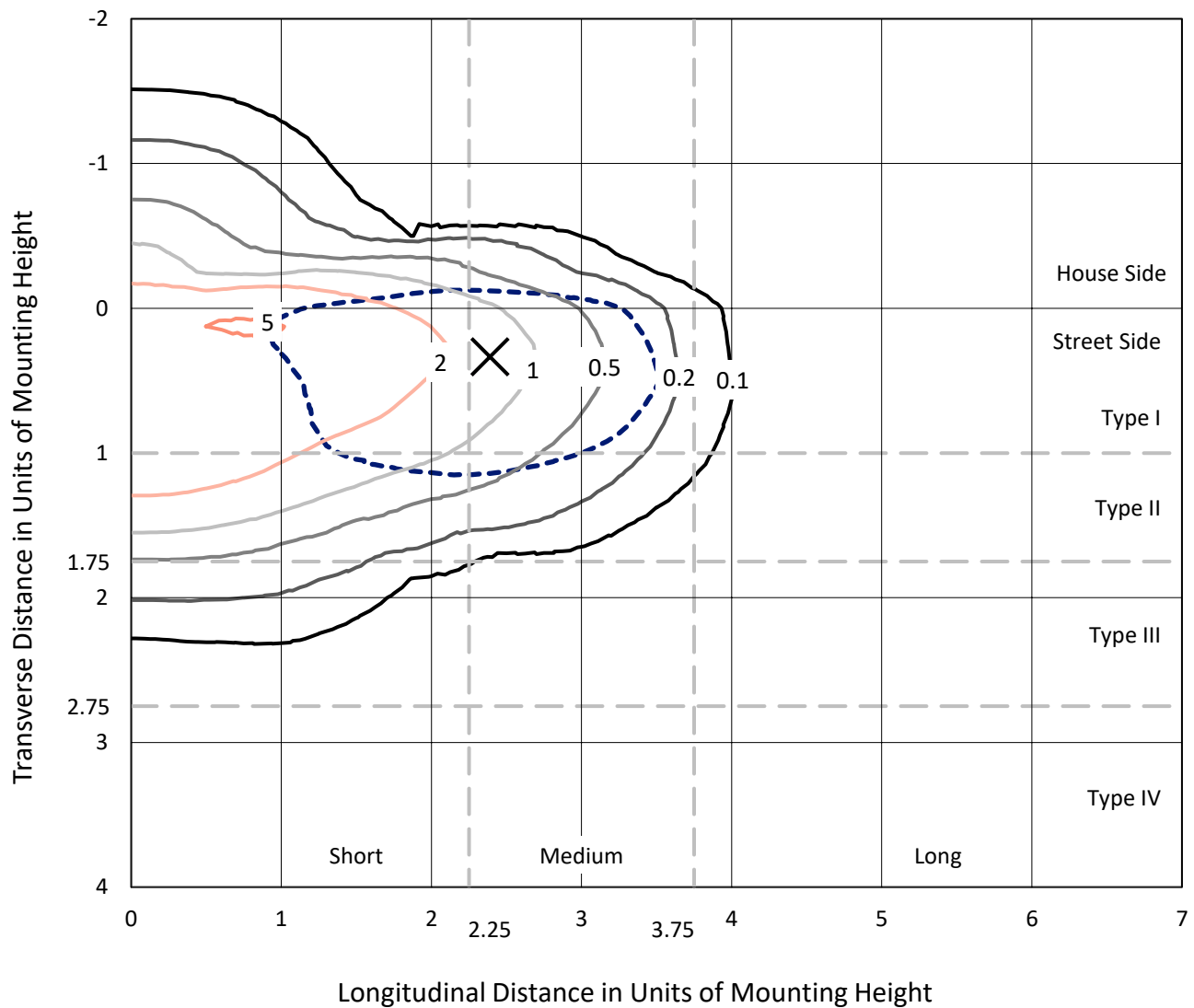


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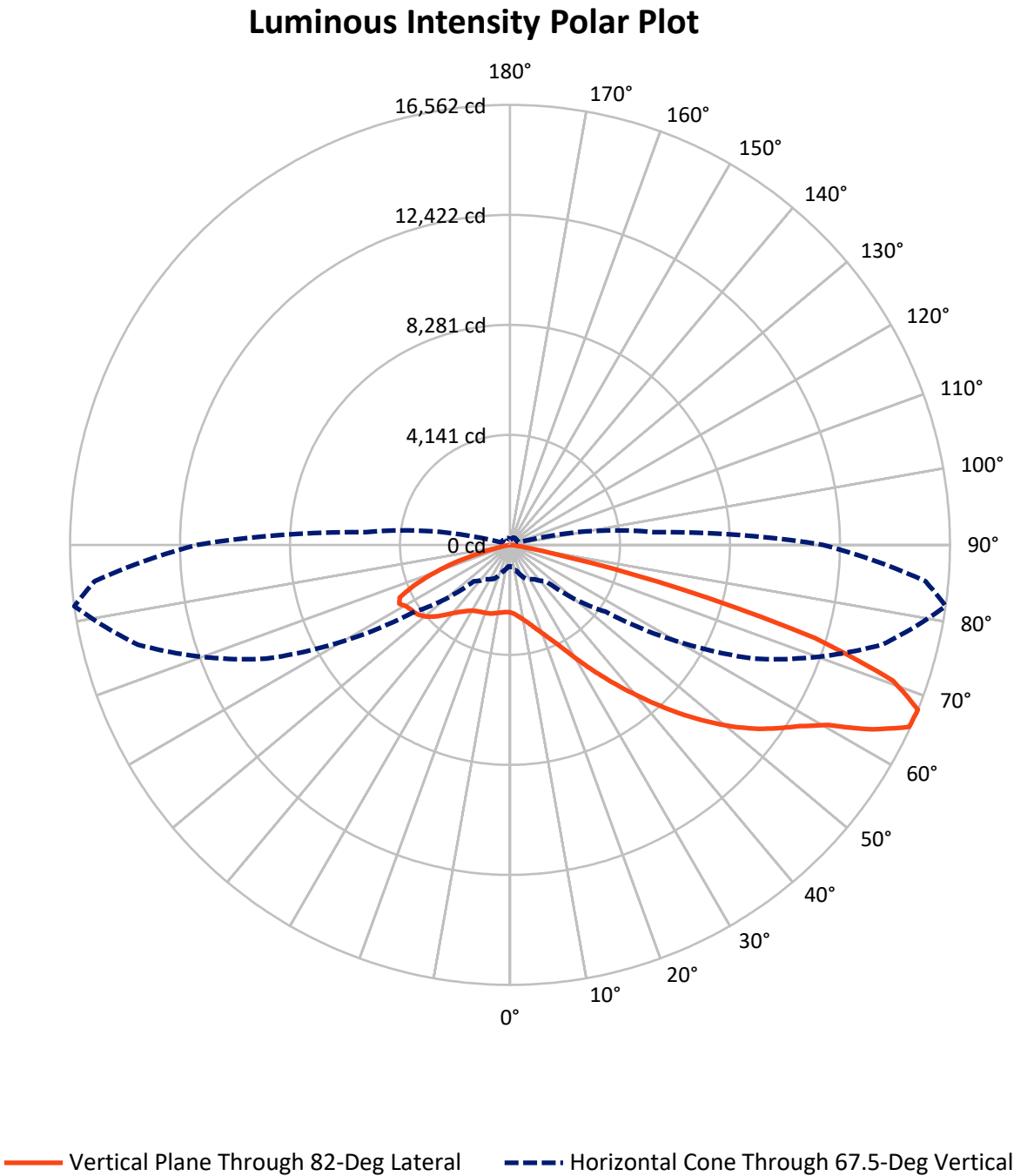
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type II - Medium - N/A

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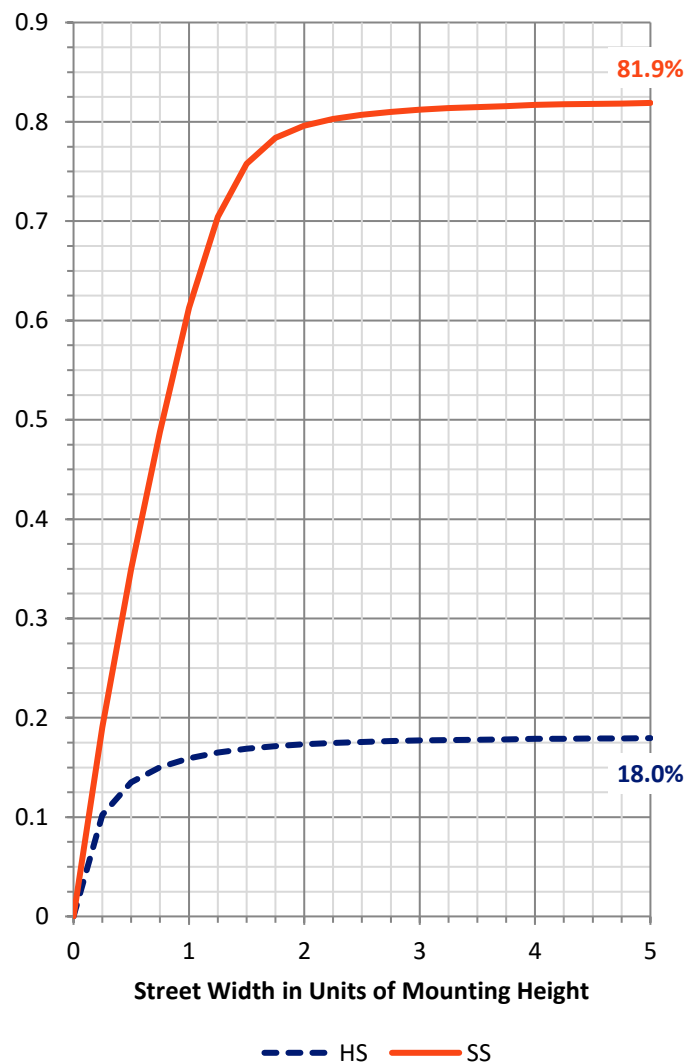
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2780.2	0.0	2780.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	12567.8	0.0	12567.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	15348.0	0.0	15348.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.5	1.5
10°-20°	588.7	3.8
20°-30°	942.8	6.1
30°-40°	1667.2	10.9
40°-50°	2921.2	19.0
50°-60°	3896.0	25.4
60°-70°	3627.0	23.6
70°-80°	1392.0	9.1
80°-90°	86.5	0.6
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°	15348.0	100.0
0°-180°	15348.0	100.0

Coefficient of Utilization



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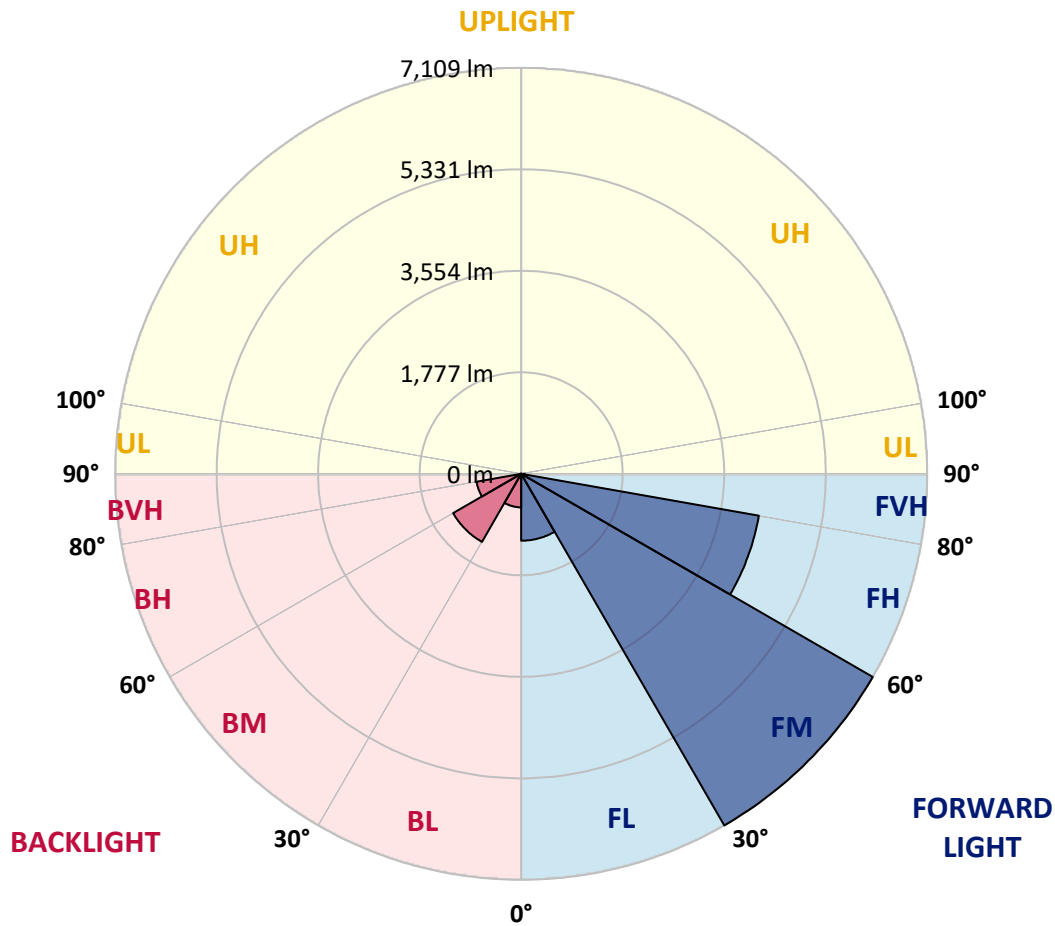
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1170.9	7.6			
FM	(30°-60°)	7108.6	46.3			
FH	(60°-80°)	4225.5	27.5			G2/5000
FVH	(80°-90°)	62.9	0.4			G1/100
BL	(0°-30°)	587.2	3.8	B2/1000		
BM	(30°-60°)	1375.9	9.0	B2/2500		
BH	(60°-80°)	793.5	5.2	B2/1000		G2/1000
BVH	(80°-90°)	23.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6
2.5°	2687.4	2702.9	2694.0	2689.6	2681.9	2670.8	2662.0	2634.4	2605.6	2586.8	2580.2
5°	2741.5	2757.0	2755.9	2760.3	2765.9	2769.2	2767.0	2736.0	2695.1	2663.1	2644.3
7.5°	2695.1	2712.8	2727.2	2749.3	2788.0	2828.8	2848.7	2842.1	2800.1	2755.9	2732.7
10°	2563.6	2582.4	2616.7	2668.6	2750.4	2838.8	2912.8	2947.1	2920.6	2871.9	2839.9
12.5°	2322.7	2341.5	2408.9	2521.6	2658.7	2812.3	2953.7	3045.4	3052.1	3003.4	2965.9
15°	2052.0	2070.8	2142.6	2284.1	2492.9	2739.3	2975.8	3149.3	3207.9	3165.9	3120.6
17.5°	1884.1	1900.6	1954.8	2068.6	2286.3	2593.5	2968.1	3259.8	3393.5	3360.4	3306.2
20°	1833.2	1847.6	1873.0	1952.6	2133.8	2442.1	2917.2	3363.7	3593.5	3574.7	3514.0
22.5°	1887.4	1900.6	1908.4	1943.7	2057.5	2342.6	2853.2	3469.8	3825.6	3827.8	3753.7
25°	2012.2	2025.5	2016.7	2038.8	2088.5	2311.7	2828.8	3594.6	4117.3	4141.6	4057.6
27.5°	2217.8	2218.9	2197.9	2196.8	2204.5	2358.1	2854.3	3728.3	4485.3	4530.6	4426.7
30°	2629.9	2613.4	2532.7	2445.4	2405.6	2497.3	2925.0	3886.3	4919.5	5000.2	4869.8
32.5°	3265.3	3241.0	3092.9	2884.1	2674.1	2721.7	3052.1	4066.5	5392.5	5538.3	5379.2
35°	3954.9	3948.2	3793.5	3483.0	3116.1	3041.0	3258.7	4302.9	5908.5	6140.6	5951.6
37.5°	4595.8	4592.5	4504.0	4138.3	3691.9	3486.3	3590.2	4612.3	6461.0	6797.0	6573.7
40°	5181.4	5191.4	5103.0	4775.9	4326.1	4057.6	4041.0	4994.7	7075.4	7511.9	7246.7
42.5°	5687.5	5698.6	5609.1	5367.1	4952.7	4689.7	4594.7	5463.2	7675.4	8279.9	7966.1
45°	6031.2	6099.7	6086.4	5893.1	5595.8	5322.9	5259.9	6051.1	8359.5	9094.3	8726.3
47.5°	6128.4	6191.4	6290.9	6317.4	6136.2	5867.6	5942.8	6759.4	9051.2	9909.8	9491.0
50°	5888.6	5947.2	6153.8	6429.0	6555.0	6472.1	6606.9	7518.5	9759.5	10723.1	10241.3
52.5°	5415.7	5475.4	5736.1	6171.5	6685.4	6946.1	7273.2	8266.6	10445.7	11493.3	10951.8
55°	4731.7	4794.7	5129.5	5622.3	6436.7	7141.7	7829.0	9013.6	11074.5	12186.1	11592.7
57.5°	3801.3	3847.7	4195.7	4885.3	5811.3	6947.2	8239.0	9829.1	11666.8	12866.8	12228.1
60°	2477.4	2518.3	2922.8	3691.9	4774.8	6297.5	8320.8	10738.6	12453.5	13751.9	13084.5
62.5°	1647.6	1675.2	1915.0	2479.7	3362.6	5049.9	7842.3	11464.6	13607.2	15292.3	14553.1
65°	1130.4	1158.1	1397.8	1791.2	2172.5	3340.5	6466.6	11368.4	14652.5	16515.6	15641.5
67.5°	806.7	829.9	1033.2	1404.5	1572.4	1940.4	4383.6	10139.6	14502.2	16562.0	15700.1
70°	577.9	591.2	759.1	1094.0	1249.8	1165.8	2437.7	7755.0	12697.8	15293.4	14504.5
72.5°	404.4	408.9	527.1	833.2	1006.7	850.9	1160.3	5170.4	9603.7	12003.8	11244.7
75°	274.0	279.6	354.7	611.1	807.8	649.8	614.4	2772.5	5637.8	6644.5	5956.0
77.5°	168.0	170.2	228.7	417.7	604.4	495.0	395.6	1174.6	2181.3	2141.5	1825.5
80°	95.0	95.0	145.9	259.7	412.2	319.3	277.4	499.5	690.6	606.7	534.8
82.5°	53.0	54.1	106.1	161.3	272.9	189.0	152.5	230.9	298.4	264.1	229.8
85°	22.1	24.3	65.2	76.2	130.4	93.9	61.9	97.2	110.5	98.3	71.8
87.5°	2.2	3.3	19.9	14.4	15.5	18.8	8.8	18.8	15.5	15.5	11.1
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°	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6	2542.6
2.5°	2559.2	2542.6	2500.7	2452.0	2387.9	2357.0	2315.0	2286.3	2262.0	2264.2	2242.1
5°	2608.9	2567.0	2473.0	2355.9	2210.0	2106.2	1995.7	1919.4	1857.5	1844.3	1814.4
7.5°	2677.5	2611.2	2446.5	2235.4	1989.0	1802.3	1635.4	1528.2	1452.0	1427.7	1403.4
10°	2765.9	2669.7	2412.3	2084.1	1729.4	1491.8	1312.8	1228.8	1176.8	1159.2	1145.9
12.5°	2868.6	2737.1	2366.9	1899.5	1461.9	1233.2	1119.4	1077.4	1060.8	1055.3	1052.0
15°	2997.9	2821.1	2298.4	1680.7	1235.4	1075.2	1026.6	1021.0	1023.2	1021.0	1019.9
17.5°	3151.5	2912.8	2186.8	1455.3	1082.9	994.5	976.8	981.3	986.8	985.7	983.5
20°	3319.5	3003.4	2044.3	1255.3	979.0	937.1	927.1	931.5	935.9	933.7	932.6
22.5°	3510.6	3100.7	1886.3	1099.5	909.4	884.0	873.0	874.1	874.1	869.6	867.4
25°	3739.4	3207.9	1720.5	989.0	856.4	836.5	823.2	818.8	812.2	798.9	796.7
27.5°	4012.3	3321.7	1561.4	911.6	814.4	795.6	780.1	769.1	752.5	730.4	728.2
30°	4319.5	3459.8	1426.6	863.0	781.2	762.5	744.8	728.2	703.9	676.3	674.1
32.5°	4680.9	3607.9	1328.2	831.0	751.4	731.5	710.5	690.6	664.1	636.5	637.6
35°	5111.8	3786.9	1270.8	808.9	728.2	701.7	678.5	656.4	636.5	612.2	610.0
37.5°	5579.2	3977.0	1253.1	797.8	712.7	671.9	645.3	629.9	627.6	613.3	612.2
40°	6090.9	4202.4	1266.3	791.2	696.2	643.1	614.4	611.1	616.6	591.2	592.3
42.5°	6632.3	4469.8	1288.4	783.5	673.0	614.4	586.8	586.8	582.3	547.0	547.0
45°	7218.0	4778.1	1310.6	764.7	645.3	585.7	564.7	556.9	538.1	503.9	502.8
47.5°	7808.1	5091.9	1327.1	730.4	612.2	561.3	542.6	524.9	497.3	466.3	465.2
50°	8368.3	5373.7	1309.4	679.6	574.6	538.1	518.3	493.9	464.1	443.1	439.8
52.5°	8868.9	5617.9	1234.3	619.9	534.8	513.8	496.2	470.7	446.4	424.3	422.1
55°	9304.2	5815.7	1101.7	563.6	499.5	492.8	475.2	443.1	410.0	391.2	389.0
57.5°	9721.9	5966.0	935.9	517.1	467.4	469.6	443.1	414.4	383.4	363.6	361.3
60°	10277.8	6167.1	768.0	474.1	433.2	439.8	411.1	390.1	351.4	326.0	322.7
62.5°	11166.2	6479.8	610.0	421.0	393.4	395.6	383.4	358.0	311.6	281.8	279.6
65°	11871.2	6364.9	480.7	363.6	348.1	351.4	351.4	323.8	274.0	239.8	236.5
67.5°	11791.6	5449.9	383.4	307.2	305.0	307.2	314.9	291.7	243.1	215.5	211.1
70°	10862.3	4335.0	307.2	255.3	265.2	259.7	281.8	266.3	218.8	191.2	187.9
72.5°	8863.3	3122.8	234.3	211.1	203.3	212.2	254.2	239.8	182.3	151.4	148.1
75°	5179.2	1666.4	174.6	166.9	147.0	176.8	225.4	204.4	139.2	111.6	108.3
77.5°	1686.3	581.2	128.2	122.7	109.4	142.5	192.3	172.4	113.8	88.4	85.1
80°	452.0	175.7	87.3	80.7	70.7	106.1	152.5	137.0	81.8	57.5	56.4
82.5°	181.2	74.0	50.8	45.3	38.7	72.9	120.4	110.5	60.8	36.5	36.5
85°	58.6	24.3	18.8	14.4	17.7	45.3	71.8	75.1	43.1	18.8	14.4
87.5°	7.7	3.3	3.3	4.4	3.3	7.7	22.1	21.0	12.2	2.2	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)