

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: P949484

Luminaire Tested: **GALN-SB4B-722-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-722-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15785 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 147
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



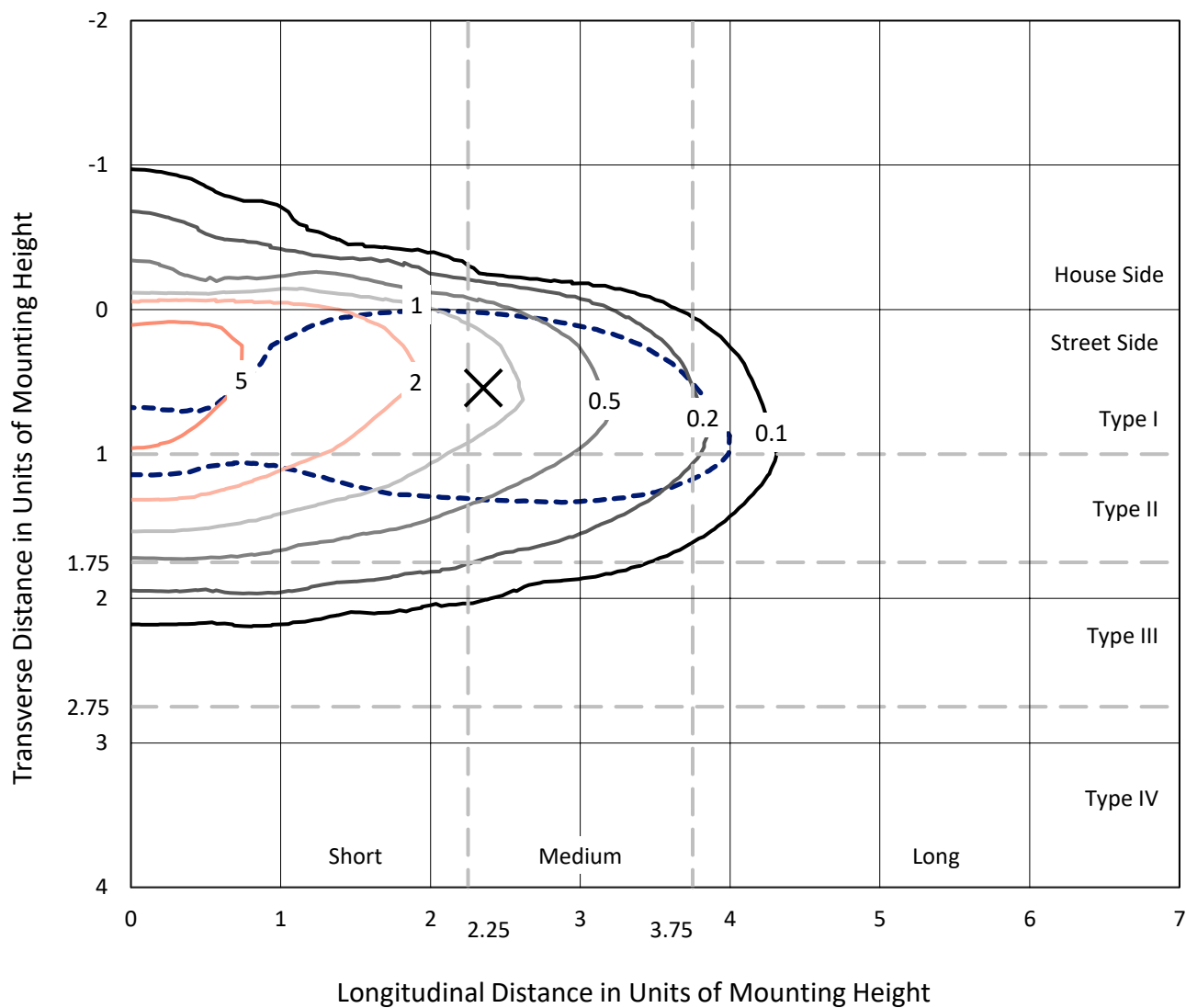
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Iso-Footcandle Lines of Horizontal Illumination

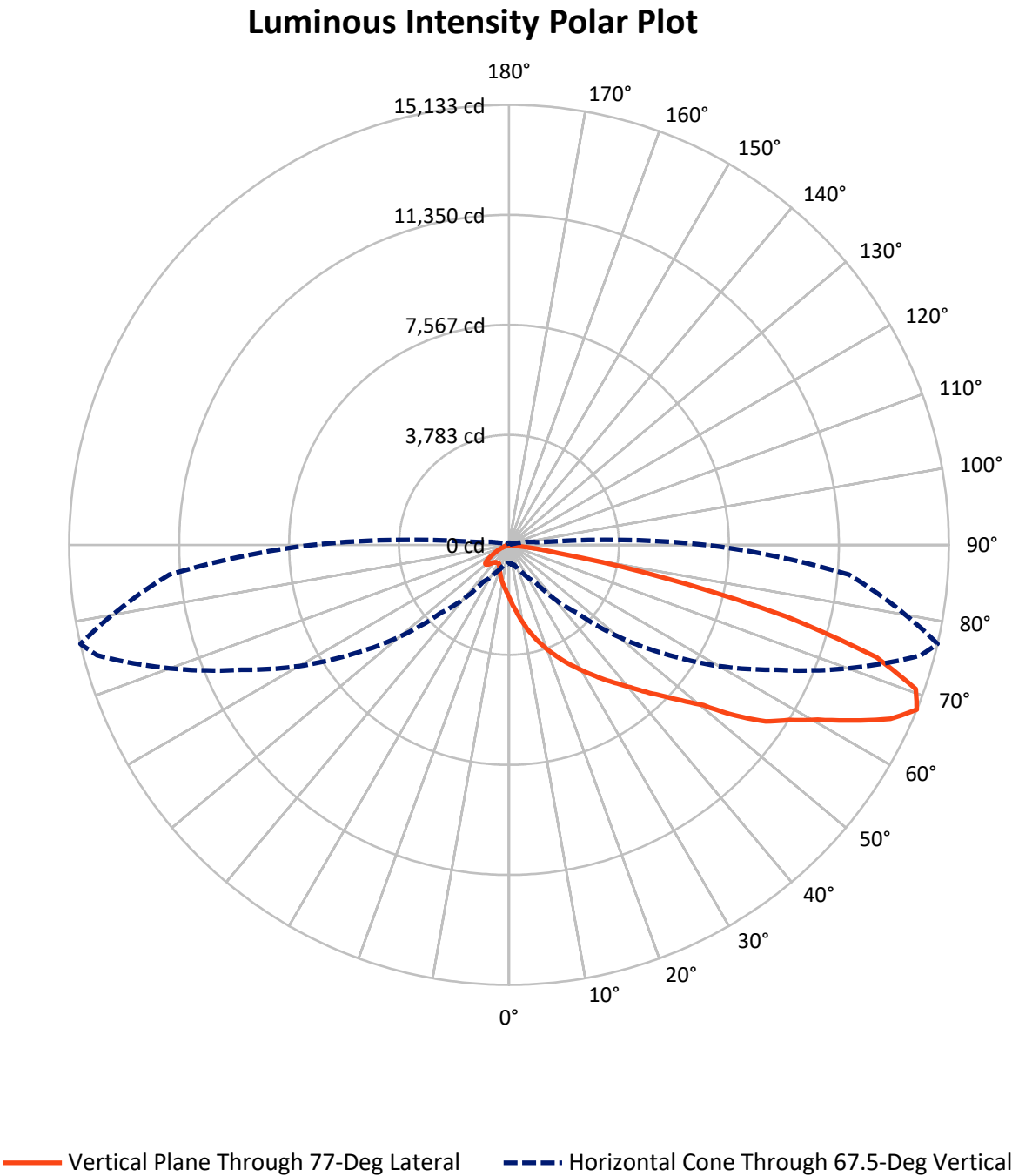
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Medium - N/A

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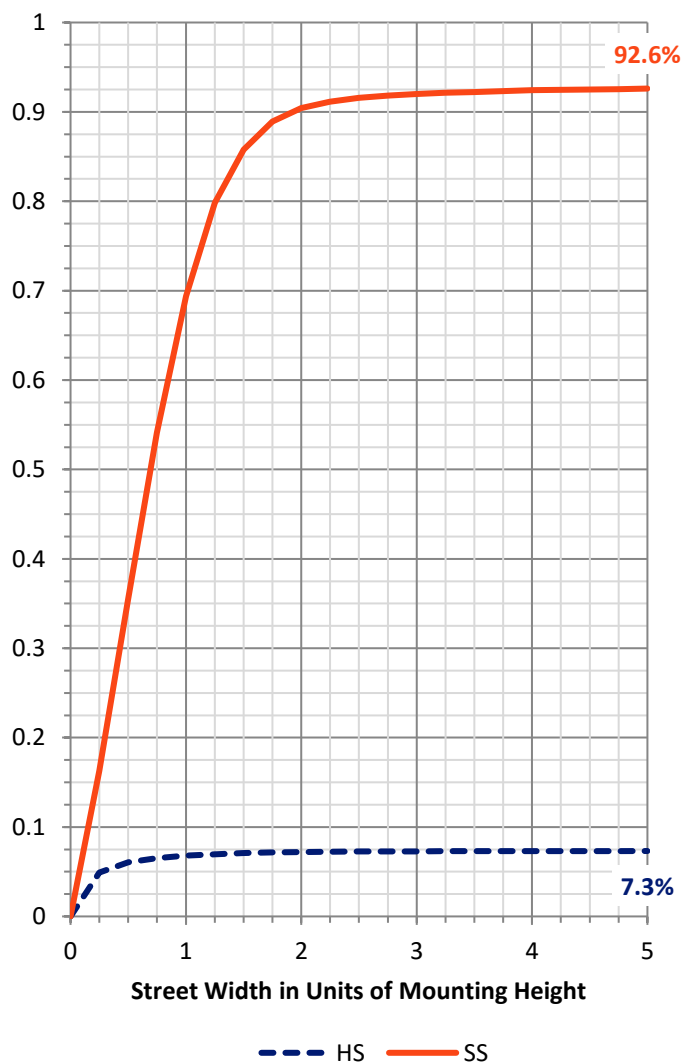
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1161.3	0.0	1161.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	14623.7	0.0	14623.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	15785.0	0.0	15785.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.8	1.2
10°-20°	650.6	4.1
20°-30°	1255.5	8.0
30°-40°	2179.6	13.8
40°-50°	3164.6	20.0
50°-60°	3634.2	23.0
60°-70°	3155.1	20.0
70°-80°	1486.1	9.4
80°-90°	73.5	0.5
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°	15785.0	100.0
0°-180°	15785.0	100.0

Coefficient of Utilization



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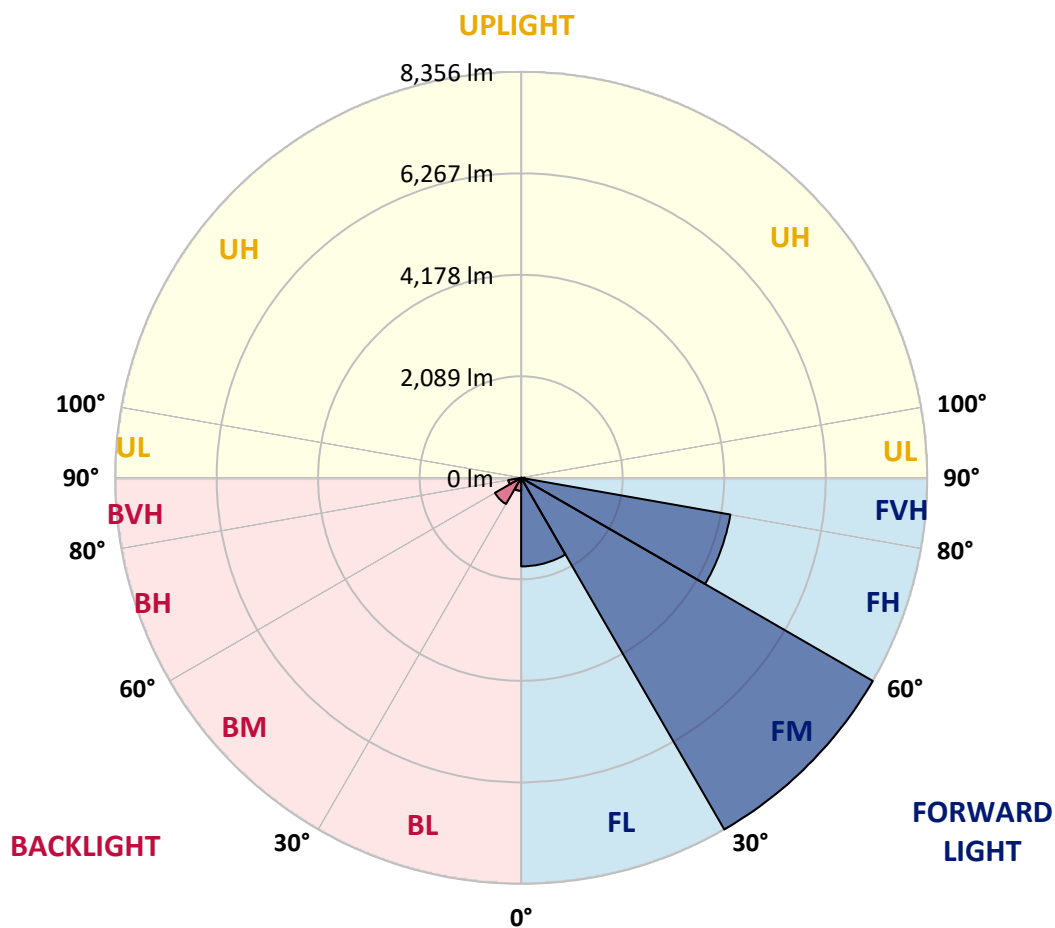
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1823.0	11.5			
FM	(30°-60°)	8356.1	52.9			
FH	(60°-80°)	4372.4	27.7			G2/5000
FVH	(80°-90°)	72.1	0.5			G1/100
BL	(0°-30°)	268.9	1.7	B1/500		
BM	(30°-60°)	622.2	3.9	B1/1000		
BH	(60°-80°)	268.9	1.7	B1/500		G1/500
BVH	(80°-90°)	1.4	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2
2.5°	2520.1	2535.8	2513.2	2470.1	2405.4	2363.3	2260.4	2163.3	2055.5	2021.2	1913.4
5°	3072.0	3085.7	3060.2	3013.2	2926.9	2844.6	2709.3	2506.4	2295.6	2228.0	2036.9
7.5°	3480.7	3488.6	3478.8	3435.6	3353.3	3260.2	3109.2	2869.1	2556.4	2481.9	2188.8
10°	3774.8	3800.3	3797.3	3780.7	3725.8	3650.3	3489.5	3216.1	2848.5	2752.4	2360.3
12.5°	3969.8	3998.3	4014.9	4052.2	4049.2	4001.2	3860.1	3570.9	3139.6	3026.9	2553.4
15°	4026.7	4057.1	4120.8	4207.0	4283.5	4308.0	4209.0	3918.9	3460.1	3316.0	2751.4
17.5°	3994.3	4041.4	4117.8	4254.1	4421.7	4532.5	4521.7	4255.1	3751.2	3586.6	2945.5
20°	4065.9	4111.0	4170.8	4285.5	4480.5	4681.5	4761.8	4576.6	4040.4	3867.9	3149.4
22.5°	4461.9	4454.1	4459.9	4478.6	4595.2	4794.2	4959.8	4868.7	4326.6	4150.2	3365.0
25°	5089.2	5053.9	4994.1	4893.2	4863.8	4959.8	5132.4	5127.5	4628.5	4439.4	3585.6
27.5°	5808.7	5802.8	5662.7	5419.6	5282.3	5245.1	5327.4	5379.4	4927.5	4725.6	3807.1
30°	6497.8	6513.5	6324.3	6053.8	5801.8	5655.8	5581.3	5618.5	5231.4	5034.3	4035.5
32.5°	7097.7	7114.3	6908.5	6591.9	6280.2	6103.7	5946.9	5854.8	5562.7	5348.0	4286.4
35°	7604.4	7621.1	7384.9	7034.9	6702.6	6542.9	6365.5	6113.5	5895.9	5696.0	4565.8
37.5°	8057.3	8052.4	7735.8	7382.9	7056.5	6930.1	6836.9	6432.1	6239.0	6045.9	4875.5
40°	8324.9	8345.5	8074.9	7685.8	7369.2	7277.0	7271.2	6827.1	6635.0	6447.8	5214.7
42.5°	8403.3	8439.6	8243.5	7924.0	7636.8	7536.8	7690.7	7254.5	7095.7	6913.4	5598.0
45°	8262.2	8297.4	8208.2	7986.7	7819.1	7754.4	8051.4	7697.6	7587.8	7407.4	6030.2
47.5°	7850.5	7894.6	7916.1	7869.1	7867.1	7932.8	8374.9	8164.1	8172.0	7987.7	6531.1
50°	7053.6	7128.1	7326.1	7492.7	7750.5	8074.0	8689.5	8669.9	8830.7	8671.9	7183.9
52.5°	5604.8	5710.7	6392.9	6848.7	7428.0	8047.5	9035.5	9481.5	9986.3	9754.0	8104.3
55°	4504.0	4504.0	5058.8	5911.6	6798.7	7873.0	9186.5	10008.9	10773.4	10718.6	8752.3
57.5°	3671.9	3716.0	4069.8	4823.6	5888.1	7457.4	9279.6	10340.2	11407.6	11367.4	9385.5
60°	2266.2	2361.3	3029.8	3773.8	4852.0	6717.4	9220.8	10675.4	12177.1	12209.4	10148.1
62.5°	1276.2	1311.5	1609.5	2715.2	3772.8	5722.4	8770.9	10862.6	13161.2	13298.5	10934.2
65°	881.2	898.8	1013.5	1689.9	2615.2	4556.0	7891.6	10746.0	14147.3	14424.7	11600.7
67.5°	640.1	648.9	720.5	1032.2	1551.7	3303.3	6513.5	10157.9	14669.8	15133.4	11728.2
70°	492.1	497.9	549.9	678.3	916.5	2038.8	4730.5	8988.5	14291.4	14845.2	11075.3
72.5°	399.9	405.8	446.0	501.9	607.7	1205.7	2867.1	7299.6	12621.1	13219.1	9428.6
75°	337.2	345.0	381.3	417.6	476.4	774.4	1344.8	5083.3	9491.3	9883.4	6556.6
77.5°	187.2	172.5	309.7	346.0	401.9	490.1	629.3	2991.6	5315.7	5424.5	2909.3
80°	116.6	120.6	246.0	278.4	308.8	247.0	288.2	1151.7	1842.8	1750.6	563.6
82.5°	6.9	15.7	189.2	200.9	211.7	105.9	108.8	391.1	444.0	407.8	100.0
85°	0.0	0.0	86.3	69.6	73.5	30.4	31.4	91.2	59.8	64.7	19.6
87.5°	0.0	0.0	0.0	2.0	0.0	2.9	5.9	7.8	2.9	3.9	6.9
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°	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2
2.5°	1844.7	1776.1	1636.9	1500.7	1389.9	1287.0	1213.5	1143.9	1108.6	1106.7	1104.7
5°	1900.6	1756.5	1478.2	1232.1	1034.1	875.3	772.4	698.9	661.6	648.9	646.9
7.5°	1979.0	1762.4	1339.0	996.9	763.6	627.3	568.5	545.0	537.2	528.3	526.4
10°	2078.0	1776.1	1214.5	802.8	601.8	533.2	509.7	499.9	494.0	488.1	486.2
12.5°	2188.8	1788.9	1091.0	666.5	529.3	494.0	477.4	465.6	457.8	450.9	448.9
15°	2296.6	1796.7	962.6	571.5	492.1	463.6	446.0	433.3	422.5	414.6	413.6
17.5°	2403.5	1807.5	842.0	514.6	461.7	433.3	415.6	399.9	391.1	382.3	381.3
20°	2522.1	1805.5	728.3	474.4	431.3	402.9	384.2	369.5	360.7	350.9	349.9
22.5°	2631.9	1795.7	628.3	440.1	399.9	372.5	351.9	337.2	328.4	320.5	319.5
25°	2758.3	1787.9	545.0	408.7	370.5	343.1	320.5	306.8	297.0	290.1	289.2
27.5°	2879.8	1776.1	484.2	380.3	342.1	315.6	294.1	278.4	269.6	264.7	264.7
30°	2999.4	1773.2	461.7	352.9	316.6	290.1	268.6	253.9	247.0	245.1	244.1
32.5°	3143.5	1781.0	471.5	343.1	293.1	266.6	246.0	235.2	228.4	228.4	228.4
35°	3297.4	1779.1	486.2	351.9	277.4	243.1	227.4	220.5	213.7	213.7	213.7
37.5°	3490.5	1782.0	497.9	366.6	271.5	223.5	214.7	205.8	201.9	201.9	201.9
40°	3778.7	1879.1	492.1	379.3	269.6	209.8	192.1	189.2	186.2	186.2	186.2
42.5°	4131.6	2089.8	499.9	380.3	268.6	200.0	176.4	182.3	175.5	174.5	173.5
45°	4517.8	2320.1	549.9	359.7	267.6	195.1	168.6	175.5	164.7	164.7	164.7
47.5°	4901.0	2548.5	600.9	330.3	264.7	194.1	161.7	157.8	154.9	155.9	155.9
50°	5429.4	2734.8	620.5	290.1	257.8	192.1	149.0	150.0	148.0	150.0	150.0
52.5°	6004.7	2774.0	596.9	245.1	238.2	186.2	140.2	144.1	143.1	145.1	145.1
55°	6363.5	2731.8	493.0	203.9	207.8	162.7	131.3	139.2	139.2	139.2	139.2
57.5°	6734.0	2552.5	349.9	165.7	172.5	133.3	123.5	134.3	133.3	132.3	132.3
60°	7000.6	2262.3	230.3	136.2	137.2	109.8	114.7	126.4	125.5	120.6	120.6
62.5°	7199.6	1941.8	148.0	115.7	104.9	99.0	104.9	114.7	110.8	100.0	98.0
65°	7177.1	1497.8	113.7	99.0	86.3	86.3	91.2	100.0	88.2	70.6	68.6
67.5°	6758.5	1013.5	94.1	83.3	72.5	71.6	75.5	83.3	75.5	59.8	57.8
70°	6010.6	662.6	75.5	64.7	57.8	52.9	60.8	71.6	63.7	48.0	46.1
72.5°	4878.5	403.8	56.9	47.0	42.1	34.3	48.0	58.8	51.0	35.3	33.3
75°	3156.3	205.8	39.2	30.4	22.5	20.6	35.3	44.1	35.3	21.6	18.6
77.5°	1207.6	86.3	21.6	13.7	11.8	9.8	19.6	26.5	14.7	4.9	3.9
80°	232.3	36.3	10.8	6.9	5.9	3.9	2.9	2.0	0.0	0.0	0.0
82.5°	40.2	11.8	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.7	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	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)