

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: P940924

Luminaire Tested: **GALN-SB4B-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940924
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-SB4B-722-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA 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: 13614 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - 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

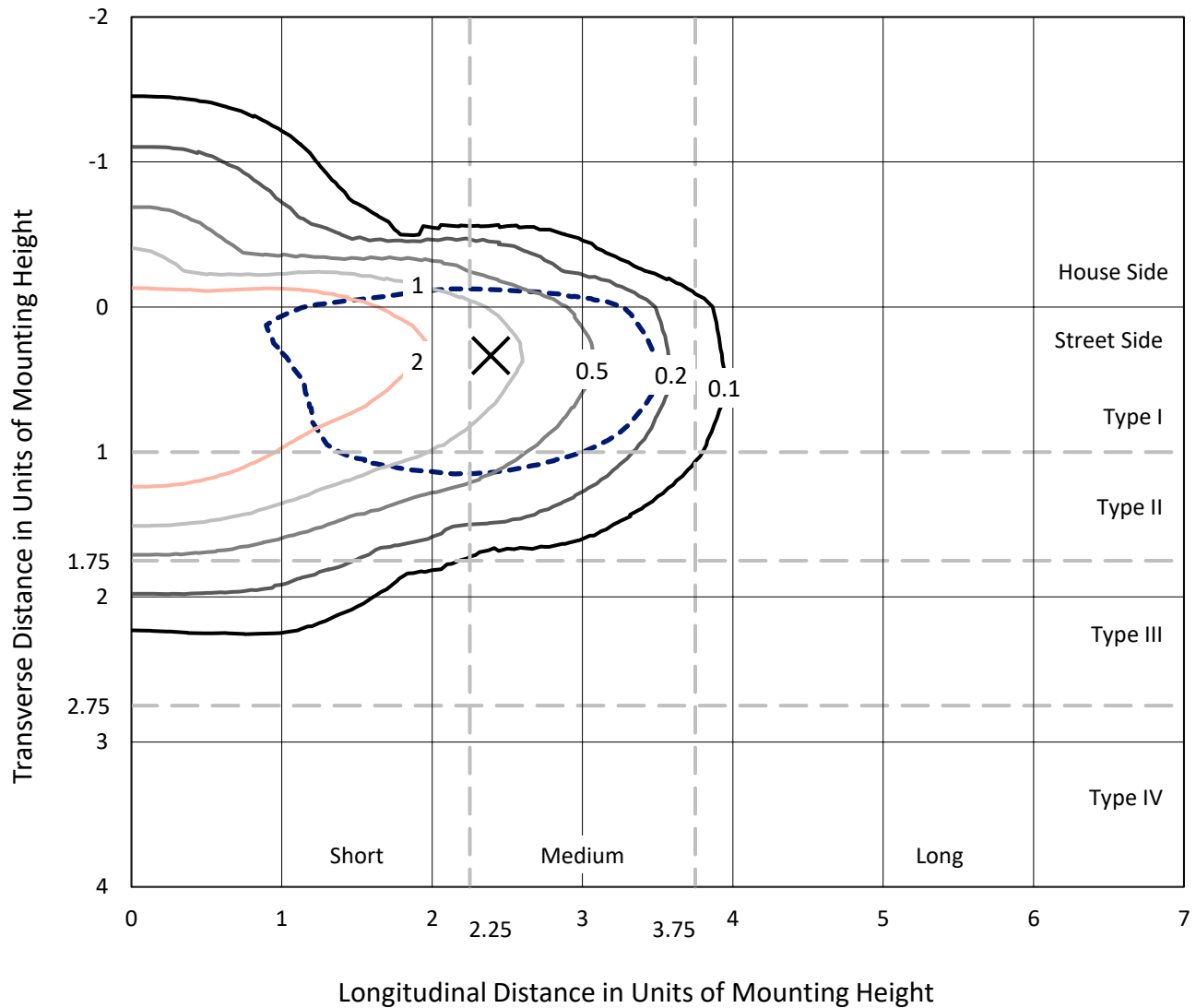


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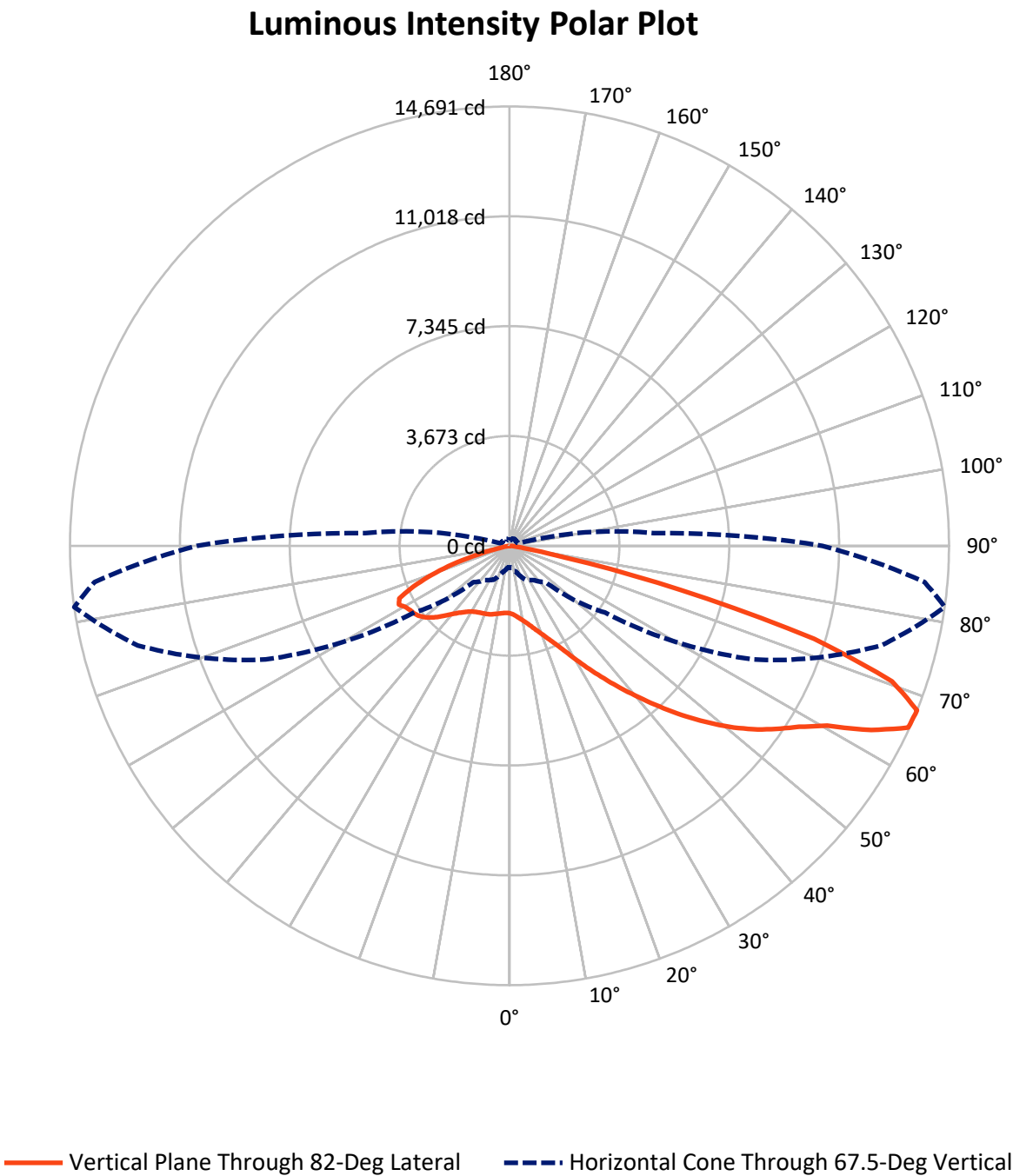
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type II - Medium - N/A

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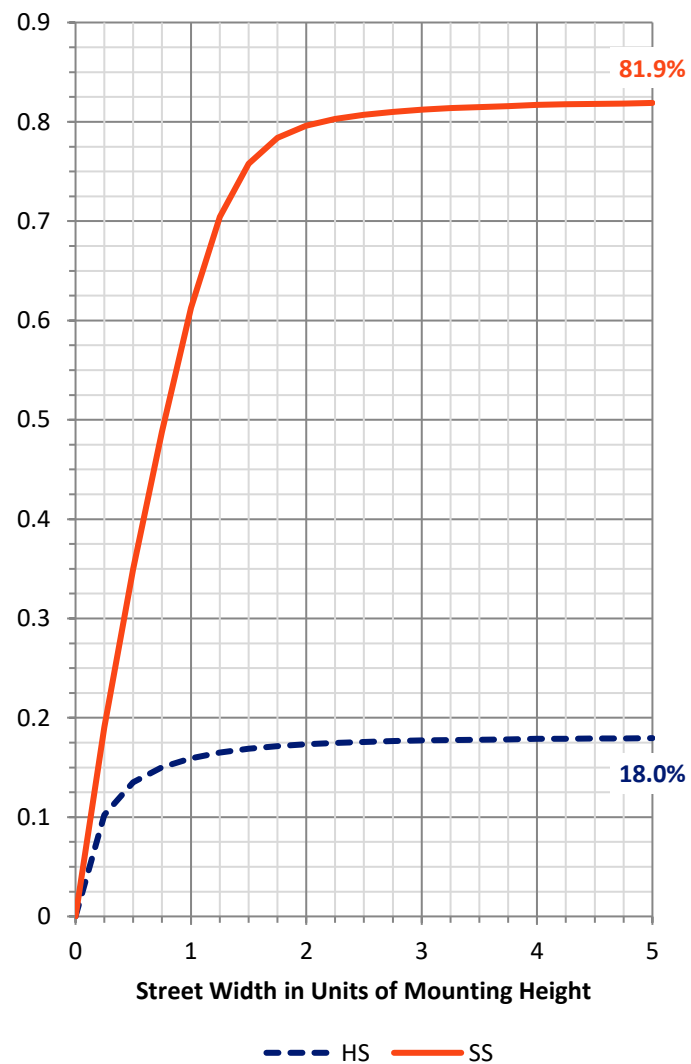
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2466.1	0.0	2466.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11147.9	0.0	11147.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	13614.0	0.0	13614.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.9	1.5
10°-20°	522.2	3.8
20°-30°	836.3	6.1
30°-40°	1478.9	10.9
40°-50°	2591.1	19.0
50°-60°	3455.9	25.4
60°-70°	3217.2	23.6
70°-80°	1234.8	9.1
80°-90°	76.7	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°	13614.0	100.0
0°-180°	13614.0	100.0

Coefficient of Utilization



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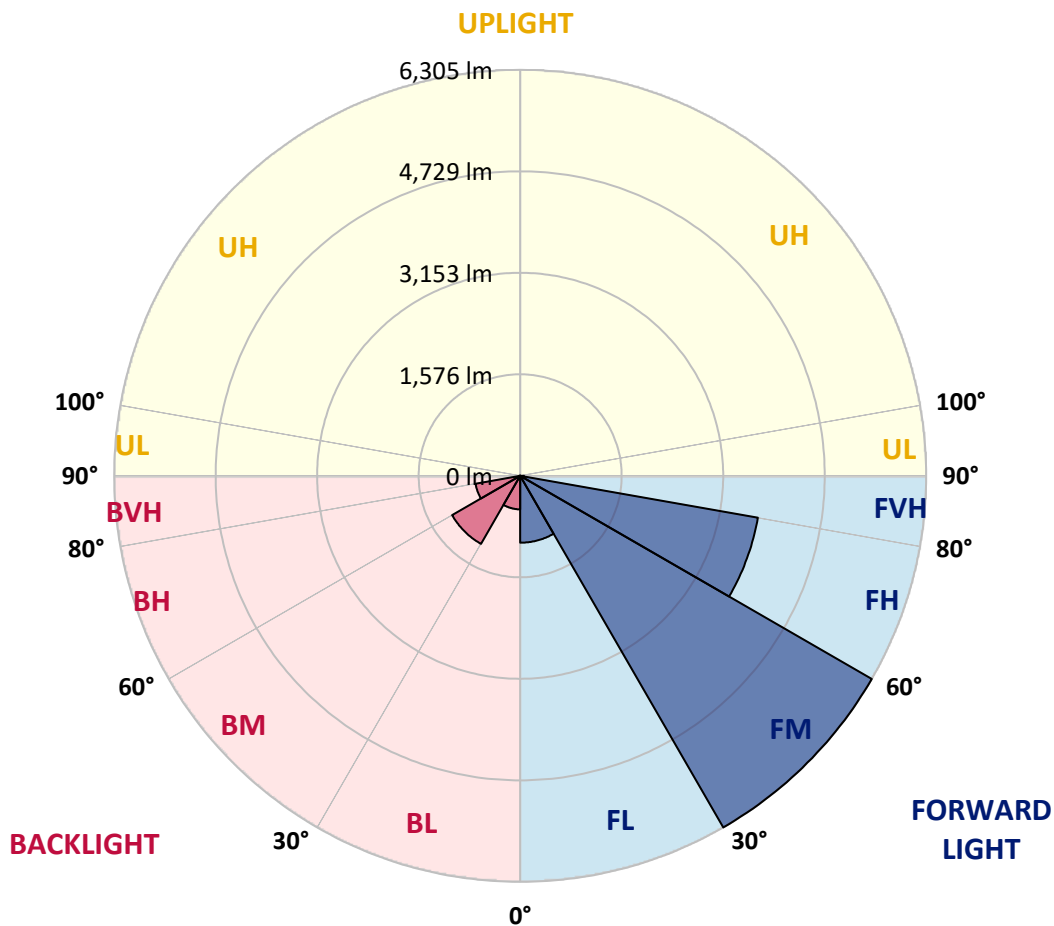
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1038.6	7.6			
FM	(30°-60°)	6305.5	46.3			
FH	(60°-80°)	3748.1	27.5			G2/5000
FVH	(80°-90°)	55.8	0.4			G1/100
BL	(0°-30°)	520.8	3.8	B2/1000		
BM	(30°-60°)	1220.4	9.0	B2/2500		
BH	(60°-80°)	703.9	5.2	B2/1000		G2/1000
BVH	(80°-90°)	20.9	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°	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4
2.5°	2383.8	2397.5	2389.7	2385.7	2378.9	2369.1	2361.2	2336.7	2311.2	2294.6	2288.7
5°	2431.8	2445.5	2444.6	2448.5	2453.4	2456.3	2454.4	2426.9	2390.6	2362.2	2345.6
7.5°	2390.6	2406.3	2419.1	2438.7	2473.0	2509.2	2526.9	2521.0	2483.8	2444.6	2424.0
10°	2274.0	2290.7	2321.1	2367.1	2439.7	2518.1	2583.7	2614.1	2590.6	2547.5	2519.0
12.5°	2060.3	2077.0	2136.8	2236.8	2358.3	2494.5	2620.0	2701.4	2707.2	2664.1	2630.8
15°	1820.2	1836.8	1900.6	2026.0	2211.3	2429.8	2639.6	2793.5	2845.4	2808.2	2768.0
17.5°	1671.2	1685.9	1733.9	1834.9	2028.0	2300.5	2632.7	2891.5	3010.1	2980.7	2932.7
20°	1626.1	1638.8	1661.4	1732.0	1892.7	2166.2	2587.7	2983.6	3187.5	3170.9	3117.0
22.5°	1674.1	1685.9	1692.8	1724.1	1825.1	2078.0	2530.8	3077.7	3393.4	3395.3	3329.6
25°	1784.9	1796.7	1788.8	1808.4	1852.5	2050.5	2509.2	3188.5	3652.1	3673.7	3599.2
27.5°	1967.2	1968.2	1949.6	1948.6	1955.4	2091.7	2531.8	3307.1	3978.5	4018.7	3926.6
30°	2332.8	2318.1	2246.6	2169.1	2133.8	2215.2	2594.5	3447.3	4363.7	4435.3	4319.6
32.5°	2896.4	2874.8	2743.5	2558.3	2372.0	2414.2	2707.2	3607.0	4783.2	4912.6	4771.5
35°	3508.0	3502.2	3364.9	3089.5	2764.1	2697.4	2890.5	3816.8	5241.0	5446.8	5279.2
37.5°	4076.5	4073.6	3995.2	3670.7	3274.8	3092.4	3184.6	4091.2	5731.1	6029.0	5831.1
40°	4596.0	4604.9	4526.4	4236.3	3837.4	3599.2	3584.5	4430.4	6276.1	6663.2	6428.0
42.5°	5045.0	5054.8	4975.4	4760.7	4393.1	4159.9	4075.6	4846.0	6808.3	7344.4	7066.1
45°	5349.8	5410.6	5398.8	5227.3	4963.6	4721.5	4665.6	5367.4	7415.0	8066.8	7740.4
47.5°	5436.0	5491.9	5580.1	5603.7	5442.9	5204.7	5271.4	5995.7	8028.6	8790.2	8418.7
50°	5223.3	5275.3	5458.6	5702.6	5814.4	5740.9	5860.5	6669.1	8656.9	9511.6	9084.2
52.5°	4803.8	4856.8	5088.1	5474.3	5930.0	6161.4	6451.5	7332.7	9265.6	10194.8	9714.5
55°	4197.1	4253.0	4550.0	4987.1	5709.5	6334.9	6944.5	7995.3	9823.3	10809.4	10283.0
57.5°	3371.8	3413.0	3721.7	4333.3	5154.7	6162.4	7308.2	8718.6	10348.7	11413.1	10846.6
60°	2197.5	2233.8	2592.6	3274.8	4235.3	5586.0	7380.7	9525.3	11046.6	12198.3	11606.2
62.5°	1461.4	1485.9	1698.6	2199.5	2982.7	4479.4	6956.3	10169.3	12069.9	13564.6	12908.9
65°	1002.7	1027.2	1239.9	1588.9	1927.0	2963.1	5736.0	10084.0	12997.1	14649.7	13874.4
67.5°	715.5	736.1	916.5	1245.8	1394.8	1721.2	3888.3	8994.1	12863.8	14690.8	13926.3
70°	512.6	524.4	673.4	970.4	1108.6	1034.1	2162.3	6878.9	11263.2	13565.6	12865.8
72.5°	358.7	362.7	467.5	739.1	892.9	754.7	1029.2	4586.2	8518.7	10647.6	9974.2
75°	243.1	248.0	314.6	542.0	716.5	576.3	545.0	2459.3	5000.8	5893.8	5283.1
77.5°	149.0	150.9	202.9	370.5	536.2	439.1	350.9	1041.9	1934.9	1899.6	1619.2
80°	84.3	84.3	129.4	230.3	365.6	283.3	246.0	443.0	612.6	538.1	474.4
82.5°	47.0	48.0	94.1	143.1	242.1	167.6	135.3	204.9	264.6	234.3	203.9
85°	19.6	21.6	57.8	67.6	115.7	83.3	54.9	86.3	98.0	87.2	63.7
87.5°	2.0	2.9	17.6	12.7	13.7	16.7	7.8	16.7	13.7	13.7	9.8
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°	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4	2255.4
2.5°	2270.1	2255.4	2218.1	2175.0	2118.2	2090.7	2053.5	2028.0	2006.4	2008.4	1988.8
5°	2314.2	2276.9	2193.6	2089.7	1960.3	1868.2	1770.2	1702.6	1647.7	1635.9	1609.4
7.5°	2375.0	2316.1	2170.1	1982.9	1764.3	1598.7	1450.7	1355.6	1287.9	1266.4	1244.8
10°	2453.4	2368.1	2139.7	1848.6	1534.0	1323.2	1164.4	1090.0	1043.9	1028.2	1016.4
12.5°	2544.5	2427.9	2099.5	1684.9	1296.8	1093.9	992.9	955.7	941.0	936.1	933.1
15°	2659.2	2502.4	2038.8	1490.8	1095.8	953.7	910.6	905.7	907.6	905.7	904.7
17.5°	2795.5	2583.7	1939.8	1290.9	960.6	882.2	866.5	870.4	875.3	874.3	872.4
20°	2944.4	2664.1	1813.3	1113.5	868.4	831.2	822.4	826.3	830.2	828.2	827.3
22.5°	3114.0	2750.4	1673.2	975.3	806.7	784.1	774.3	775.3	775.3	771.4	769.4
25°	3316.9	2845.4	1526.1	877.3	759.6	742.0	730.2	726.3	720.4	708.7	706.7
27.5°	3559.0	2946.4	1385.0	808.6	722.4	705.7	692.0	682.2	667.5	647.9	645.9
30°	3831.5	3068.9	1265.4	765.5	693.0	676.3	660.6	645.9	624.4	599.9	597.9
32.5°	4152.0	3200.3	1178.2	737.1	666.5	648.9	630.3	612.6	589.1	564.6	565.6
35°	4534.3	3359.1	1127.2	717.5	645.9	622.4	601.8	582.2	564.6	543.0	541.1
37.5°	4948.9	3527.6	1111.5	707.7	632.2	595.9	572.4	558.7	556.7	544.0	543.0
40°	5402.7	3727.6	1123.3	701.8	617.5	570.5	545.0	542.0	546.9	524.4	525.4
42.5°	5883.0	3964.8	1142.9	694.9	596.9	545.0	520.5	520.5	516.6	485.2	485.2
45°	6402.5	4238.3	1162.5	678.3	572.4	519.5	500.9	494.0	477.3	447.0	446.0
47.5°	6925.9	4516.6	1177.2	647.9	543.0	497.9	481.3	465.6	441.1	413.6	412.7
50°	7422.9	4766.6	1161.5	602.8	509.7	477.3	459.7	438.1	411.7	393.0	390.1
52.5°	7866.9	4983.2	1094.9	549.9	474.4	455.8	440.1	417.6	396.0	376.4	374.4
55°	8253.1	5158.7	977.2	499.9	443.0	437.2	421.5	393.0	363.6	347.0	345.0
57.5°	8623.6	5292.0	830.2	458.7	414.6	416.6	393.0	367.6	340.1	322.5	320.5
60°	9116.6	5470.3	681.2	420.5	384.2	390.1	364.6	346.0	311.7	289.2	286.2
62.5°	9904.7	5747.7	541.1	373.4	348.9	350.9	340.1	317.6	276.4	249.9	248.0
65°	10530.0	5645.8	426.4	322.5	308.8	311.7	311.7	287.2	243.1	212.7	209.8
67.5°	10459.4	4834.2	340.1	272.5	270.5	272.5	279.3	258.8	215.6	191.1	187.2
70°	9635.1	3845.2	272.5	226.4	235.2	230.3	249.9	236.2	194.1	169.6	166.6
72.5°	7862.0	2770.0	207.8	187.2	180.4	188.2	225.4	212.7	161.7	134.3	131.3
75°	4594.1	1478.1	154.9	148.0	130.4	156.8	200.0	181.3	123.5	99.0	96.1
77.5°	1495.7	515.6	113.7	108.8	97.0	126.4	170.6	152.9	101.0	78.4	75.5
80°	400.9	155.8	77.4	71.6	62.7	94.1	135.3	121.5	72.5	51.0	50.0
82.5°	160.7	65.7	45.1	40.2	34.3	64.7	106.8	98.0	53.9	32.3	32.3
85°	51.9	21.6	16.7	12.7	15.7	40.2	63.7	66.7	38.2	16.7	12.7
87.5°	6.9	2.9	2.9	3.9	2.9	6.9	19.6	18.6	10.8	2.0	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)