

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: P946314

Luminaire Tested: **GALN-SB2A-730-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946314
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-SB2A-730-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

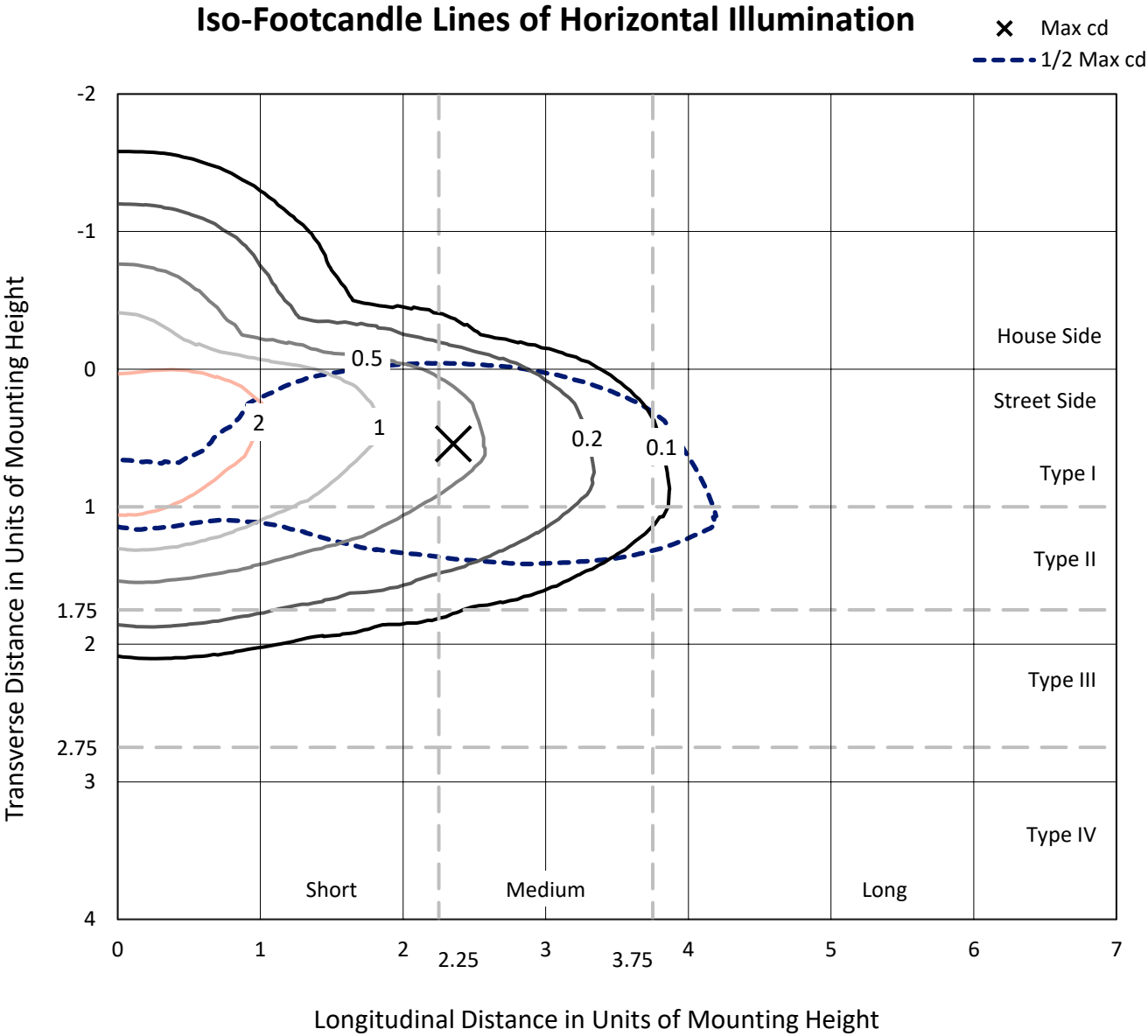
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9137 lumens
Efficiency: N/A
Efficacy: 159.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 57.3
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



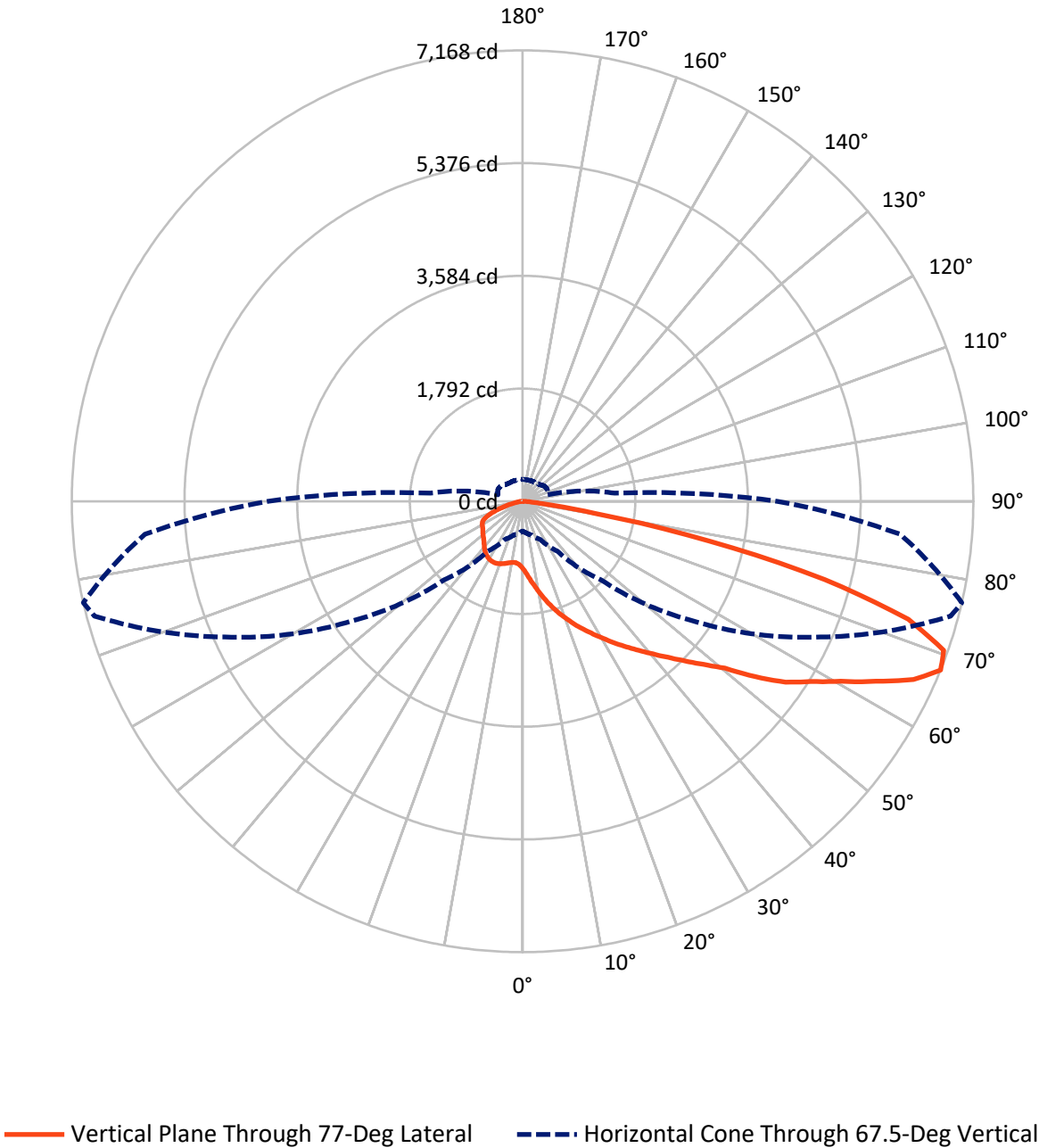
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Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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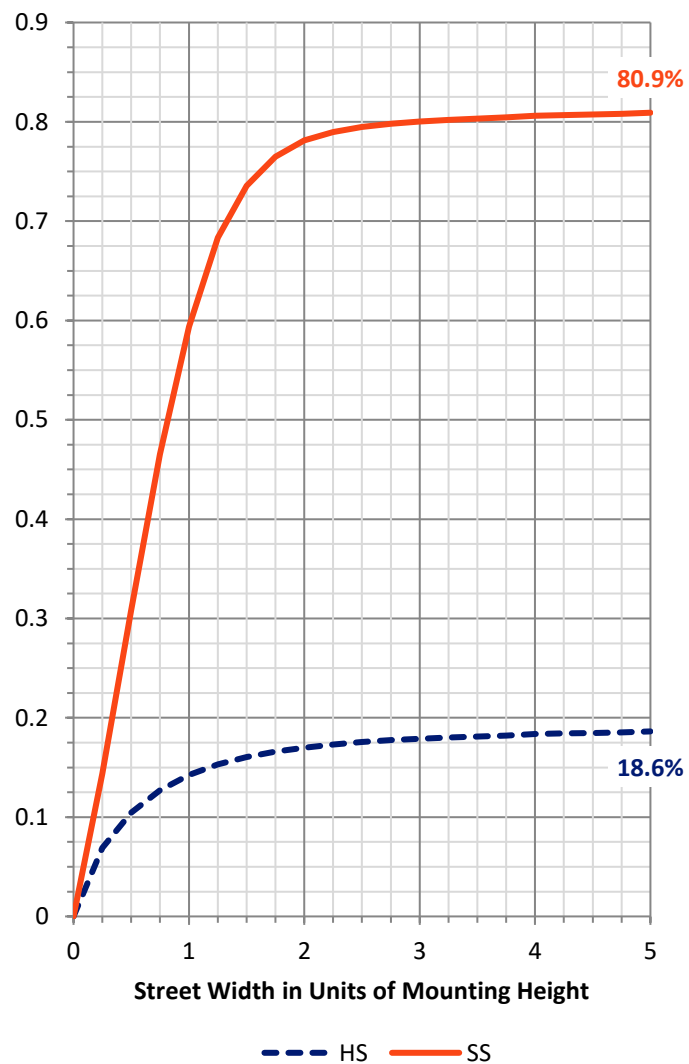
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1728.4	0.0	1728.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	7408.6	0.0	7408.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	9137.0	0.0	9137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	1.3
10°-20°	412.8	4.5
20°-30°	779.5	8.5
30°-40°	1255.7	13.7
40°-50°	1717.5	18.8
50°-60°	1937.4	21.2
60°-70°	1808.3	19.8
70°-80°	991.3	10.8
80°-90°	119.6	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°	9137.0	100.0
0°-180°	9137.0	100.0

Coefficient of Utilization



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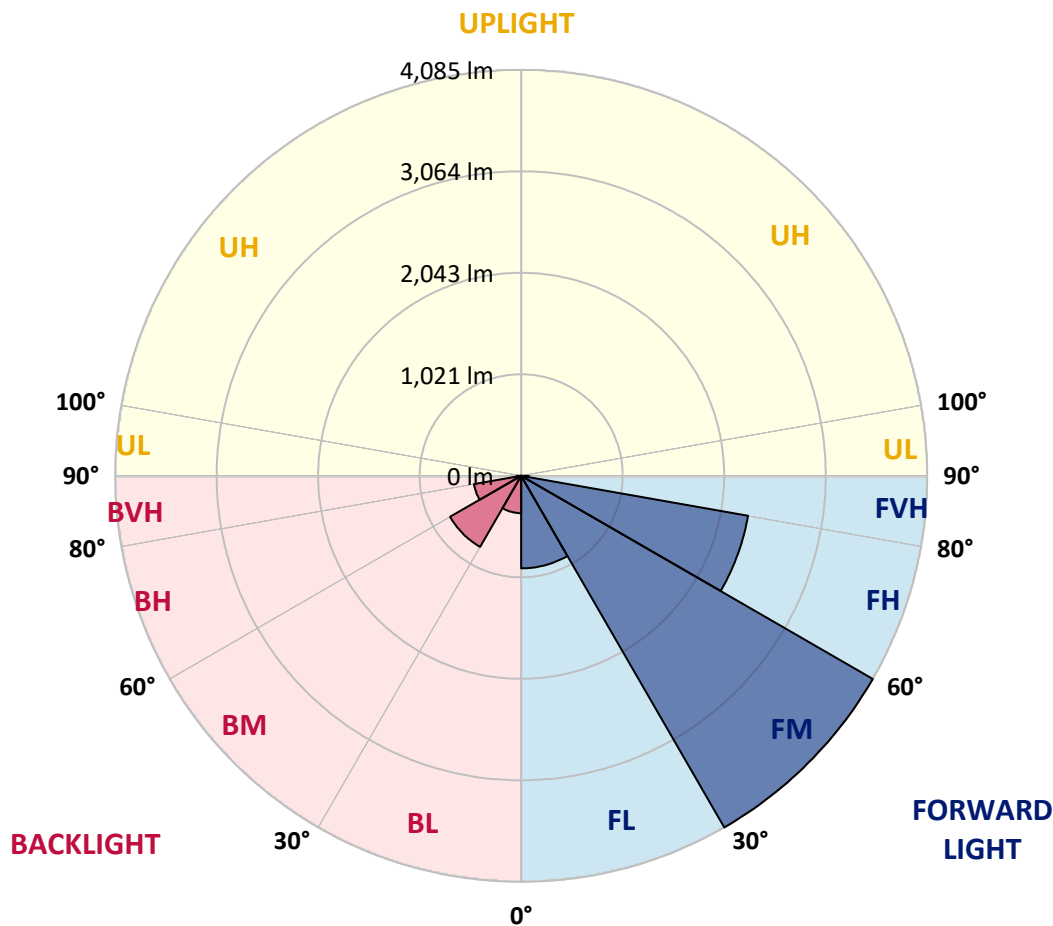
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	931.4	10.2			
FM	(30°-60°)	4085.0	44.7			
FH	(60°-80°)	2317.4	25.4			G2/5000
FVH	(80°-90°)	74.8	0.8			G1/100
BL	(0°-30°)	375.8	4.1	B1/500		
BM	(30°-60°)	825.6	9.0	B1/1000		
BH	(60°-80°)	482.2	5.3	B1/500		G1/500
BVH	(80°-90°)	44.8	0.5			G1/100
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°	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1
2.5°	1342.3	1351.7	1339.9	1339.9	1300.3	1279.6	1240.0	1209.8	1155.5	1146.1	1110.3
5°	1586.6	1598.4	1581.9	1574.8	1528.1	1485.2	1418.7	1353.2	1256.5	1246.6	1162.1
7.5°	1775.8	1790.8	1776.2	1768.7	1727.2	1679.1	1601.2	1509.7	1373.4	1354.1	1231.9
10°	1930.0	1932.3	1927.6	1930.5	1897.9	1858.3	1778.6	1672.0	1501.7	1475.3	1316.4
12.5°	2017.2	2028.1	2037.5	2054.5	2048.8	2024.3	1952.6	1825.3	1637.6	1603.6	1408.3
15°	2058.3	2077.1	2098.4	2137.5	2169.1	2175.2	2120.5	1989.9	1775.8	1734.7	1501.3
17.5°	2072.9	2090.8	2124.3	2180.9	2248.8	2294.6	2270.0	2149.8	1912.5	1865.4	1598.9
20°	2146.9	2152.1	2172.4	2226.2	2299.8	2375.7	2394.1	2303.5	2047.9	1994.6	1699.8
22.5°	2305.4	2295.0	2300.7	2325.2	2378.0	2451.6	2493.6	2439.4	2187.0	2125.7	1801.7
25°	2567.2	2537.0	2506.8	2478.5	2505.4	2546.9	2594.5	2575.2	2332.8	2254.9	1904.5
27.5°	2897.8	2861.0	2794.5	2701.6	2669.1	2683.7	2704.9	2701.1	2467.7	2388.9	2010.6
30°	3223.2	3180.3	3101.1	2966.7	2880.8	2842.1	2826.1	2815.3	2614.3	2530.4	2117.7
32.5°	3483.1	3449.2	3371.3	3220.9	3096.4	3030.3	2977.0	2938.4	2767.6	2683.7	2230.9
35°	3710.4	3678.8	3589.7	3425.6	3290.2	3219.9	3150.1	3067.6	2927.0	2842.1	2352.6
37.5°	3918.0	3886.4	3764.2	3593.5	3457.2	3408.6	3346.3	3206.3	3086.9	3006.8	2481.3
40°	4049.1	4042.0	3927.9	3734.5	3593.0	3569.0	3548.2	3367.1	3264.3	3189.7	2622.8
42.5°	4082.6	4098.1	4007.6	3848.6	3713.7	3694.4	3743.0	3549.1	3463.3	3392.1	2783.2
45°	4001.9	4046.7	3987.3	3879.3	3799.6	3789.2	3915.6	3748.2	3683.6	3618.5	2976.6
47.5°	3797.7	3873.6	3849.1	3834.0	3822.7	3867.5	4067.5	3959.5	3933.1	3876.5	3197.3
50°	3385.5	3529.3	3572.3	3667.5	3777.0	3928.3	4205.7	4190.1	4224.5	4167.5	3466.1
52.5°	2672.8	2870.9	3119.9	3358.6	3636.4	3908.1	4357.5	4521.2	4666.5	4635.3	3893.4
55°	2206.4	2295.5	2487.0	2924.7	3363.8	3822.7	4425.9	4788.6	5105.1	5077.3	4217.5
57.5°	1847.9	1927.6	2045.5	2411.1	2951.6	3628.9	4468.4	4951.8	5405.5	5402.7	4537.2
60°	1463.5	1547.9	1668.7	1927.6	2470.0	3294.0	4459.0	5137.7	5789.0	5812.6	4927.3
62.5°	1029.6	1122.5	1256.5	1498.0	1978.1	2860.1	4266.5	5272.1	6240.4	6304.5	5396.6
65°	676.8	738.1	839.1	1047.5	1473.9	2302.1	3899.1	5289.5	6723.3	6831.8	5837.1
67.5°	474.5	498.1	557.5	670.7	971.6	1765.4	3313.8	5108.9	7045.5	7167.6	6028.1
70°	370.2	382.0	412.2	457.5	610.3	1187.1	2539.3	4639.1	6976.6	7103.9	5828.6
72.5°	319.8	331.1	342.4	348.1	409.4	732.9	1720.1	3878.8	6328.1	6414.4	5067.8
75°	290.1	292.9	302.3	300.4	312.2	475.4	992.8	2826.1	4992.9	4963.1	3741.1
77.5°	243.8	247.6	263.2	260.8	277.3	325.0	515.5	1823.9	3236.9	3035.0	2082.3
80°	206.6	208.5	225.4	222.6	241.0	235.4	263.2	929.6	1373.0	1163.1	600.4
82.5°	71.7	88.7	172.2	177.3	183.9	142.4	151.9	379.2	419.3	321.2	125.9
85°	34.9	37.3	87.7	124.5	124.0	71.7	74.0	135.4	132.1	103.8	42.0
87.5°	5.7	7.1	10.4	48.6	38.7	18.9	25.5	26.4	27.4	23.6	9.4
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°	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1
2.5°	1083.8	1060.3	1010.7	965.0	929.1	894.7	875.4	858.9	849.4	847.5	847.5
5°	1113.1	1064.5	974.4	898.5	849.0	812.2	792.8	780.6	774.4	770.7	770.2
7.5°	1155.1	1083.8	955.6	869.2	817.4	791.0	781.0	779.2	778.7	779.2	780.6
10°	1213.1	1115.4	953.7	862.2	818.8	804.2	803.7	804.2	806.0	806.5	807.0
12.5°	1275.8	1148.0	961.2	868.3	836.7	828.7	827.3	826.8	828.2	829.2	829.6
15°	1344.2	1190.9	974.0	881.5	856.5	848.0	846.6	843.8	843.3	842.8	842.4
17.5°	1414.5	1233.4	988.1	895.7	869.2	857.5	852.3	845.7	840.5	839.1	840.5
20°	1485.7	1275.3	998.0	902.7	870.2	853.7	843.3	832.0	823.0	817.8	819.7
22.5°	1561.6	1319.2	1004.1	900.8	861.7	839.1	820.2	807.0	793.3	784.3	784.8
25°	1635.7	1357.4	1003.7	890.9	845.2	816.4	792.4	775.4	756.5	747.1	747.1
27.5°	1706.9	1391.8	991.9	873.5	821.6	789.5	760.8	740.5	722.1	713.1	712.7
30°	1780.5	1420.6	973.5	848.0	793.8	758.4	726.8	709.4	692.8	684.4	683.9
32.5°	1853.6	1447.0	947.5	816.4	761.7	727.8	696.6	680.6	670.7	670.7	671.2
35°	1930.9	1465.4	913.1	779.6	727.8	695.2	670.7	661.2	660.3	654.6	653.2
37.5°	2012.5	1477.2	871.1	741.9	694.3	663.6	656.1	644.7	635.3	623.0	621.2
40°	2098.4	1489.0	820.7	702.8	658.9	641.9	638.6	623.5	596.6	566.4	562.2
42.5°	2202.6	1497.0	768.3	663.6	621.6	616.0	620.7	594.7	551.8	529.2	529.7
45°	2323.3	1510.2	720.2	624.9	583.4	583.4	603.2	569.3	533.9	519.8	522.1
47.5°	2479.9	1540.9	675.4	582.5	548.1	557.5	564.6	538.6	518.8	501.4	500.9
50°	2706.3	1614.4	629.2	539.6	521.2	540.0	530.1	515.0	491.9	477.8	476.4
52.5°	2987.4	1657.8	588.1	500.9	498.1	516.9	502.8	488.6	471.2	452.3	448.5
55°	3178.9	1665.9	553.7	472.6	482.5	480.6	475.4	462.7	453.3	428.3	428.7
57.5°	3393.0	1681.9	525.4	455.6	472.6	451.8	450.0	439.1	426.8	409.9	404.2
60°	3649.1	1706.9	500.9	449.0	464.1	433.0	423.5	419.3	407.0	398.5	400.9
62.5°	3928.3	1729.5	475.9	450.0	454.2	414.6	400.4	399.0	391.5	388.6	388.6
65°	4118.9	1667.7	444.8	449.0	438.6	395.7	377.8	377.3	371.2	370.2	369.8
67.5°	4052.4	1472.0	402.8	435.8	422.6	376.8	357.0	355.2	347.1	347.6	347.6
70°	3719.4	1192.8	344.8	403.3	402.8	359.9	335.3	329.2	318.4	320.2	322.1
72.5°	3094.9	883.9	267.0	349.0	371.2	344.3	310.3	300.4	286.8	288.6	288.2
75°	2235.1	600.9	194.3	265.5	323.1	325.9	285.8	268.8	252.3	255.2	256.1
77.5°	1143.7	340.5	142.9	183.0	253.7	296.2	263.7	241.0	237.2	263.7	259.9
80°	373.1	170.7	99.0	128.3	166.5	242.4	231.1	205.2	204.2	210.4	180.6
82.5°	111.3	72.2	63.7	84.4	92.0	185.8	199.5	155.2	133.5	140.6	145.3
85°	38.2	34.9	36.3	42.0	43.9	109.0	139.6	102.8	97.2	107.1	105.6
87.5°	9.0	12.3	10.4	9.4	9.4	26.4	54.2	42.9	59.4	39.6	38.2
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)