

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: P455783

Luminaire Tested: **GALN-SA7A-727-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19182 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

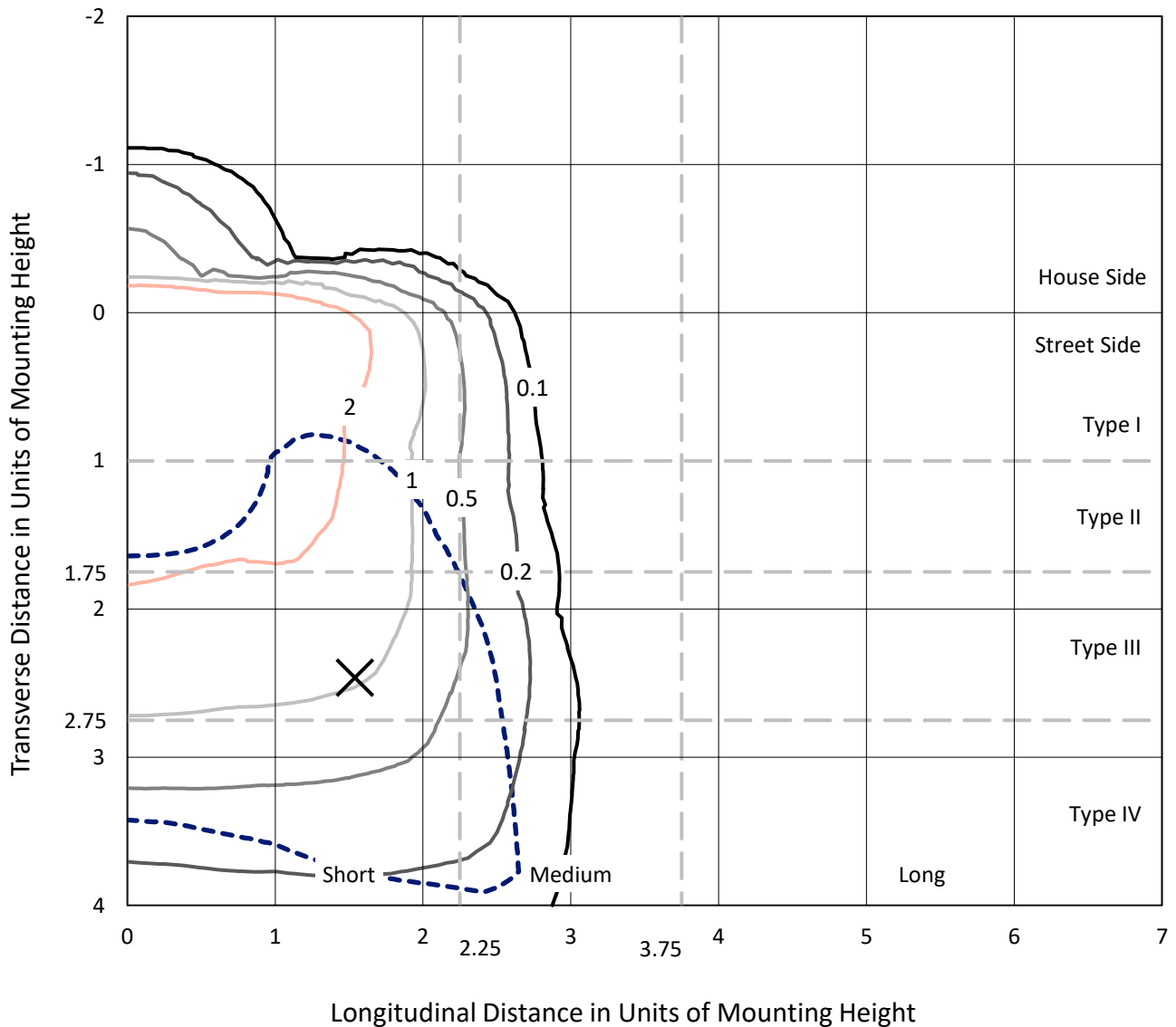
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

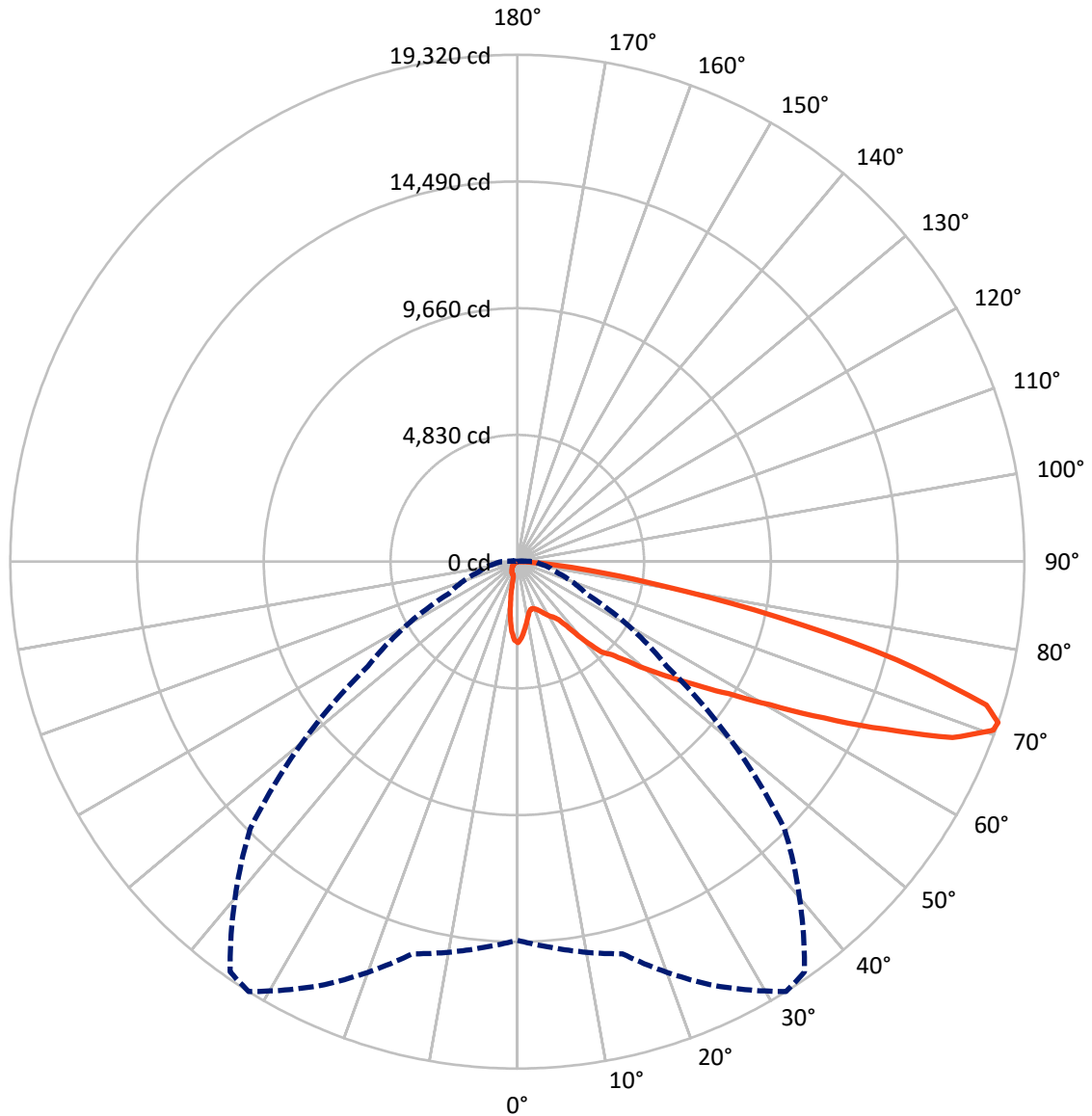
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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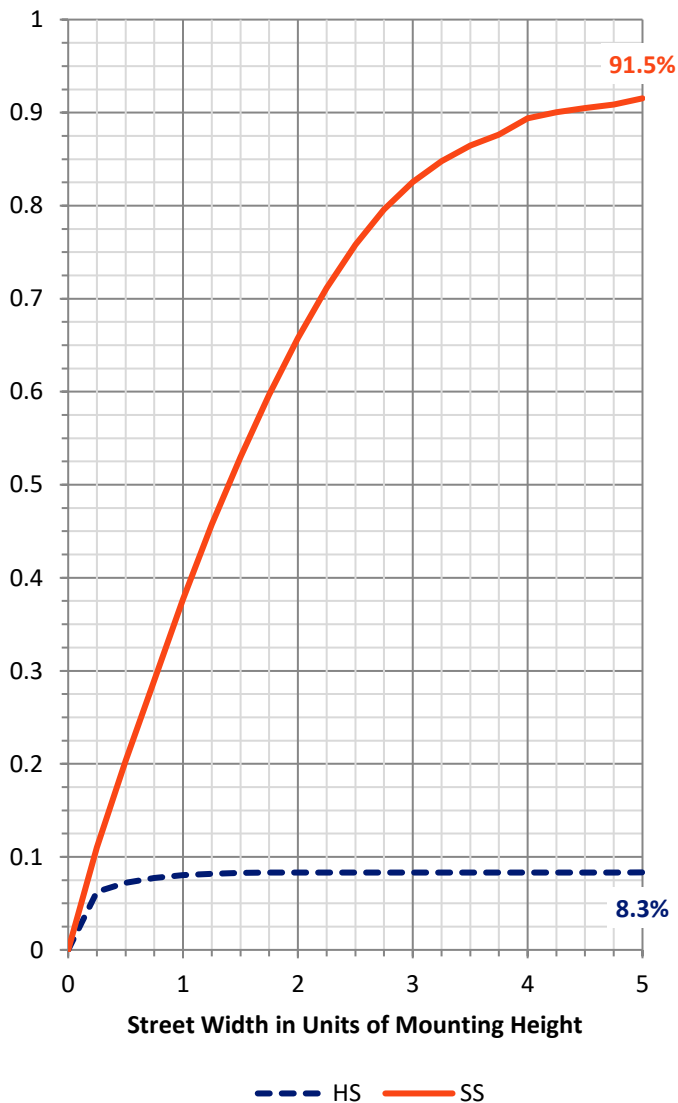
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1606.7	0.0	1606.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	17575.3	0.0	17575.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	19182.0	0.0	19182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.8	1.3
10°-20°	544.4	2.8
20°-30°	846.9	4.4
30°-40°	1410.9	7.4
40°-50°	2624.6	13.7
50°-60°	4213.8	22.0
60°-70°	5667.8	29.5
70°-80°	3362.8	17.5
80°-90°	259.9	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°	19182.0	100.0
0°-180°	19182.0	100.0

Coefficient of Utilization



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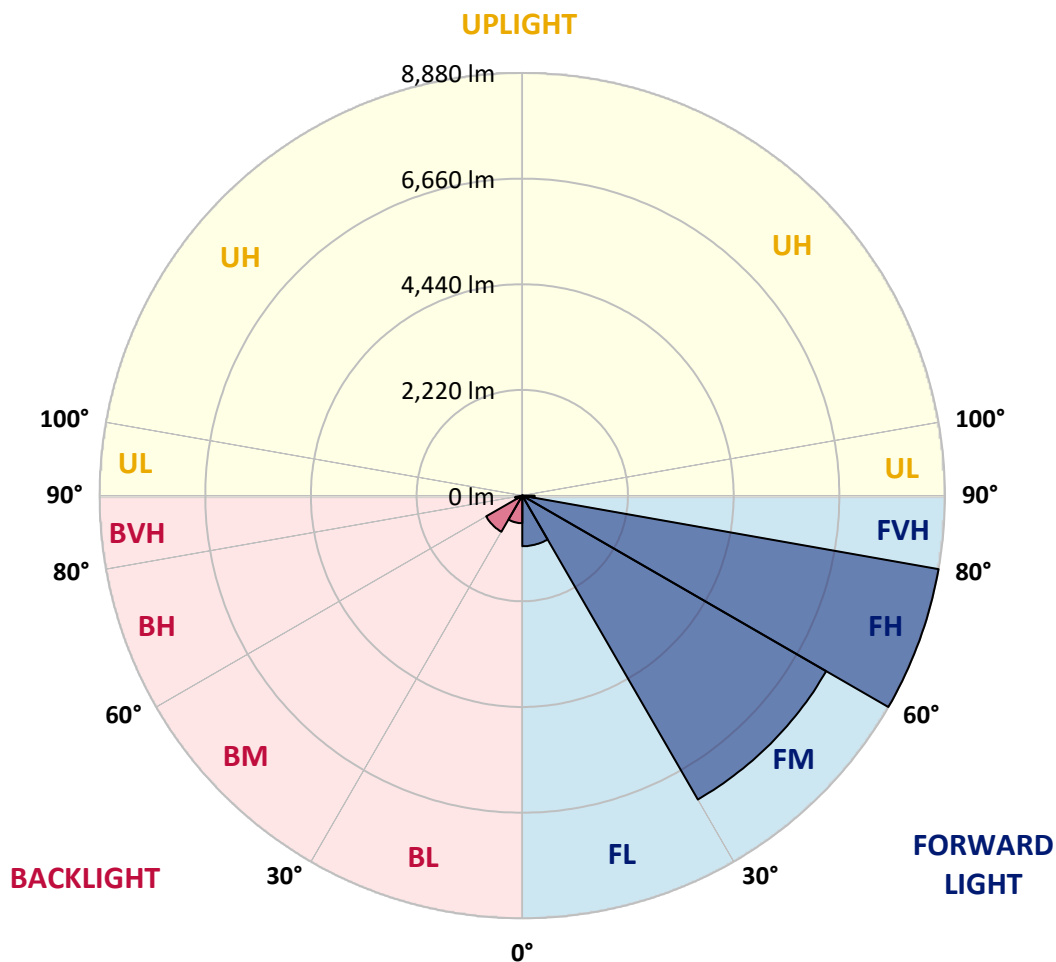
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1063.2	5.5			
FM	(30°-60°)	7372.9	38.4			
FH	(60°-80°)	8880.3	46.3			G4/12000
FVH	(80°-90°)	258.9	1.3			G3/500
BL	(0°-30°)	578.9	3.0	B2/1000		
BM	(30°-60°)	876.5	4.6	B1/1000		
BH	(60°-80°)	150.3	0.8	B1/500		G1/500
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8
2.5°	2861.0	2890.4	2886.0	2896.3	2921.3	2931.6	2959.6	2990.5	3033.2	3062.7	3081.8
5°	2562.0	2584.1	2587.1	2638.6	2663.6	2691.6	2774.1	2863.9	2964.0	3043.5	3096.5
7.5°	2242.5	2254.3	2277.9	2345.6	2408.9	2436.9	2562.0	2718.1	2875.7	3024.4	3120.1
10°	1979.0	1992.2	2034.9	2107.1	2166.0	2202.8	2376.5	2572.4	2793.2	3014.1	3154.0
12.5°	1828.8	1836.1	1852.3	1917.1	1992.2	2032.0	2219.0	2442.8	2727.0	3018.5	3211.4
15°	1818.5	1815.5	1796.4	1822.9	1890.6	1931.8	2114.4	2354.4	2668.1	3033.2	3279.1
17.5°	1872.9	1865.6	1819.9	1819.9	1875.9	1909.8	2070.3	2307.3	2638.6	3067.1	3374.8
20°	1956.9	1945.1	1870.0	1864.1	1918.6	1953.9	2096.8	2310.3	2644.5	3130.4	3502.9
22.5°	2062.9	2049.6	1936.3	1939.2	1998.1	2033.4	2173.3	2363.3	2681.3	3208.5	3639.9
25°	2201.3	2186.6	2052.6	2046.7	2108.5	2139.5	2286.7	2457.5	2732.9	3305.6	3819.5
27.5°	2385.4	2354.4	2193.9	2185.1	2251.4	2291.1	2423.6	2584.1	2824.1	3439.6	4061.0
30°	2537.0	2503.2	2350.0	2326.5	2397.1	2428.1	2565.0	2754.9	3003.8	3673.7	4395.2
32.5°	2735.8	2685.7	2506.1	2444.3	2519.3	2559.1	2769.7	3073.0	3270.3	3921.1	4792.8
35°	3183.4	3152.5	2933.1	2716.7	2712.2	2762.3	3071.5	3394.0	3544.2	4306.9	5334.7
37.5°	3823.9	3801.8	3569.2	3279.1	3195.2	3171.6	3438.2	3747.4	3981.5	4837.0	5964.9
40°	4567.5	4516.0	4302.5	4056.6	3947.6	3878.4	3871.0	4273.0	4552.8	5557.0	6621.6
42.5°	5100.5	5006.3	4747.2	4729.5	4705.9	4633.8	4424.7	5041.6	5290.5	6331.5	7323.9
45°	5660.1	5517.2	5131.5	5065.2	5056.4	5051.9	5261.0	5951.6	6094.4	7170.8	8045.4
47.5°	6094.4	5981.1	5664.5	5635.0	5671.8	5772.0	6366.8	6917.5	6888.1	7918.8	8650.6
50°	6673.1	6587.7	6235.8	6291.7	6481.7	6645.1	7614.0	7970.3	7540.4	8507.8	9090.9
52.5°	7356.3	7198.8	6871.9	7023.5	7315.1	7587.5	8937.7	8892.1	7998.3	8951.0	9419.2
55°	7948.2	7836.3	7724.4	7882.0	8317.8	8658.0	10133.3	9582.7	8331.1	9307.3	9563.5
57.5°	8949.5	8923.0	8808.1	8968.6	9497.2	9850.6	11203.8	10118.6	8544.6	9492.8	9394.2
60°	10430.8	10388.1	10174.6	10379.2	11068.3	11623.5	12190.3	10600.1	8593.2	9420.7	8906.8
62.5°	12212.4	12066.7	11884.1	12185.9	13131.2	13375.7	13119.5	10885.8	8412.1	8846.4	7731.8
65°	13876.3	13726.1	13730.5	14366.6	15395.8	15562.2	14203.2	10843.1	7882.0	7407.9	5702.8
67.5°	15150.0	15124.9	15304.6	16545.8	17891.6	17776.8	15172.0	10204.0	6310.9	4801.6	3030.3
70°	15214.7	15263.3	15778.7	17874.0	19240.4	19057.8	15089.6	8294.3	3934.4	2208.7	1194.2
71°	14431.4	14758.3	15470.9	17832.7	19319.9	19082.8	14394.6	6947.0	2886.0	1540.2	861.4
72.5°	12297.8	12470.1	14010.3	16782.9	18691.2	18184.7	12632.1	4869.4	1847.9	942.4	494.7
75°	6773.2	7197.3	9382.4	13166.6	14949.7	14505.0	8232.4	2313.2	921.7	515.4	204.7
77.5°	3224.6	3142.2	4577.8	7830.4	10136.3	10112.7	4147.9	1027.8	537.4	349.0	103.1
80°	921.7	1036.6	1752.2	3722.3	5627.7	5689.5	1593.2	496.2	372.5	272.4	53.0
82.5°	278.3	284.2	643.5	1646.2	2799.1	2638.6	597.8	253.3	268.0	216.4	30.9
85°	48.6	60.4	189.9	580.1	1067.5	809.8	150.2	120.7	176.7	142.8	17.7
87.5°	2.9	4.4	63.3	66.3	94.2	54.5	26.5	17.7	38.3	38.3	10.3
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°	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8
2.5°	3095.1	3103.9	3098.0	3084.8	3062.7	3036.2	3000.8	2971.4	2946.4	2933.1	2949.3
5°	3114.2	3126.0	3096.5	3030.3	2930.2	2821.2	2697.5	2601.8	2526.7	2503.2	2494.3
7.5°	3143.7	3151.0	3071.5	2924.3	2712.2	2454.6	2229.3	2039.3	1892.1	1847.9	1783.1
10°	3181.9	3177.5	3027.3	2753.5	2380.9	1993.7	1644.7	1385.6	1189.7	1119.1	1113.2
12.5°	3240.8	3217.3	2971.4	2520.8	1986.3	1479.8	1048.4	820.1	696.5	655.2	646.4
15°	3314.5	3258.5	2883.0	2248.4	1521.0	955.6	646.4	577.2	561.0	558.1	555.1
17.5°	3401.3	3313.0	2766.7	1914.2	1069.0	619.9	540.4	538.9	540.4	537.4	536.0
20°	3519.1	3370.4	2628.3	1518.1	706.8	522.7	515.4	515.4	516.8	515.4	515.4
22.5°	3644.3	3438.2	2457.5	1158.8	533.0	496.2	494.7	497.7	500.6	499.2	499.2
25°	3798.9	3526.5	2232.2	793.6	477.1	474.1	475.6	481.5	487.4	488.9	487.4
27.5°	4022.7	3635.5	1990.7	546.3	437.3	440.3	455.0	469.7	478.5	480.0	480.0
30°	4274.5	3756.2	1675.6	443.2	404.9	404.9	422.6	450.6	469.7	472.7	474.1
32.5°	4598.4	3896.1	1326.7	399.0	374.0	371.1	387.3	421.1	456.5	466.8	466.8
35°	4998.9	4061.0	986.5	371.1	351.9	344.6	353.4	381.4	427.0	456.5	459.4
37.5°	5468.6	4217.1	721.5	346.0	331.3	321.0	326.9	349.0	385.8	430.0	441.7
40°	5903.0	4355.5	538.9	325.4	310.7	303.3	307.7	318.0	349.0	390.2	397.6
42.5°	6377.1	4463.0	428.5	303.3	290.1	287.1	287.1	291.5	312.2	335.7	337.2
45°	6849.8	4501.3	359.3	276.8	268.0	270.9	269.5	266.5	275.3	272.4	272.4
47.5°	7187.0	4455.6	297.4	251.8	251.8	256.2	248.8	238.5	234.1	216.4	217.9
50°	7418.2	4289.2	244.4	222.3	234.1	240.0	225.3	209.1	192.9	173.7	169.3
52.5°	7513.9	3993.3	200.3	184.1	207.6	215.0	197.3	178.2	153.1	136.9	132.5
55°	7452.0	3628.1	166.4	150.2	175.2	184.1	166.4	144.3	116.3	98.7	95.7
57.5°	7179.6	3192.3	141.4	119.3	139.9	145.8	134.0	110.4	82.5	64.8	64.8
60°	6708.4	2741.7	114.9	94.2	104.5	113.4	101.6	79.5	56.0	39.8	36.8
62.5°	5752.8	2226.3	92.8	73.6	73.6	81.0	70.7	57.4	35.3	20.6	19.1
65°	4153.8	1526.9	73.6	54.5	53.0	53.0	44.2	38.3	20.6	8.8	5.9
67.5°	2257.3	861.4	58.9	41.2	36.8	35.3	28.0	22.1	8.8	1.5	0.0
70°	887.9	331.3	45.6	28.0	23.6	22.1	14.7	10.3	5.9	0.0	0.0
71°	602.2	228.2	39.8	23.6	19.1	16.2	11.8	8.8	4.4	0.0	0.0
72.5°	344.6	141.4	30.9	17.7	14.7	11.8	8.8	5.9	4.4	0.0	0.0
75°	150.2	72.1	19.1	13.3	10.3	7.4	5.9	4.4	1.5	0.0	0.0
77.5°	76.6	39.8	13.3	10.3	5.9	4.4	2.9	1.5	0.0	0.0	0.0
80°	42.7	20.6	8.8	5.9	4.4	2.9	1.5	1.5	0.0	0.0	0.0
82.5°	23.6	11.8	4.4	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.7	7.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	2.9	0.0	0.0	0.0	0.0	1.5	1.5	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)