

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: STREETWORKS

Report Number: P237213

Luminaire Tested: **ARCH-L-AF72-200-D-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29624)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-200-D-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18241.3 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 201
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: 28.75 FT

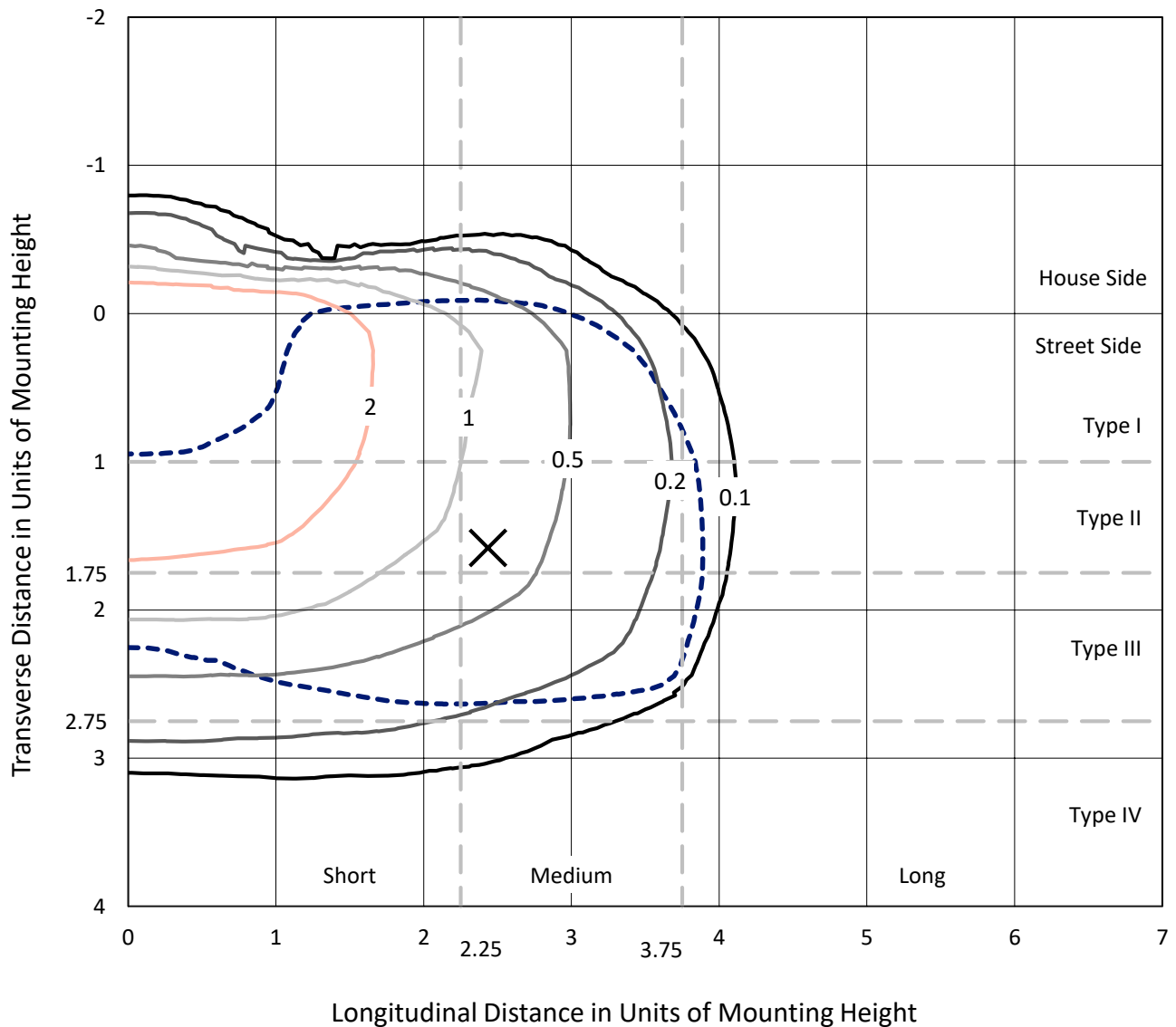


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

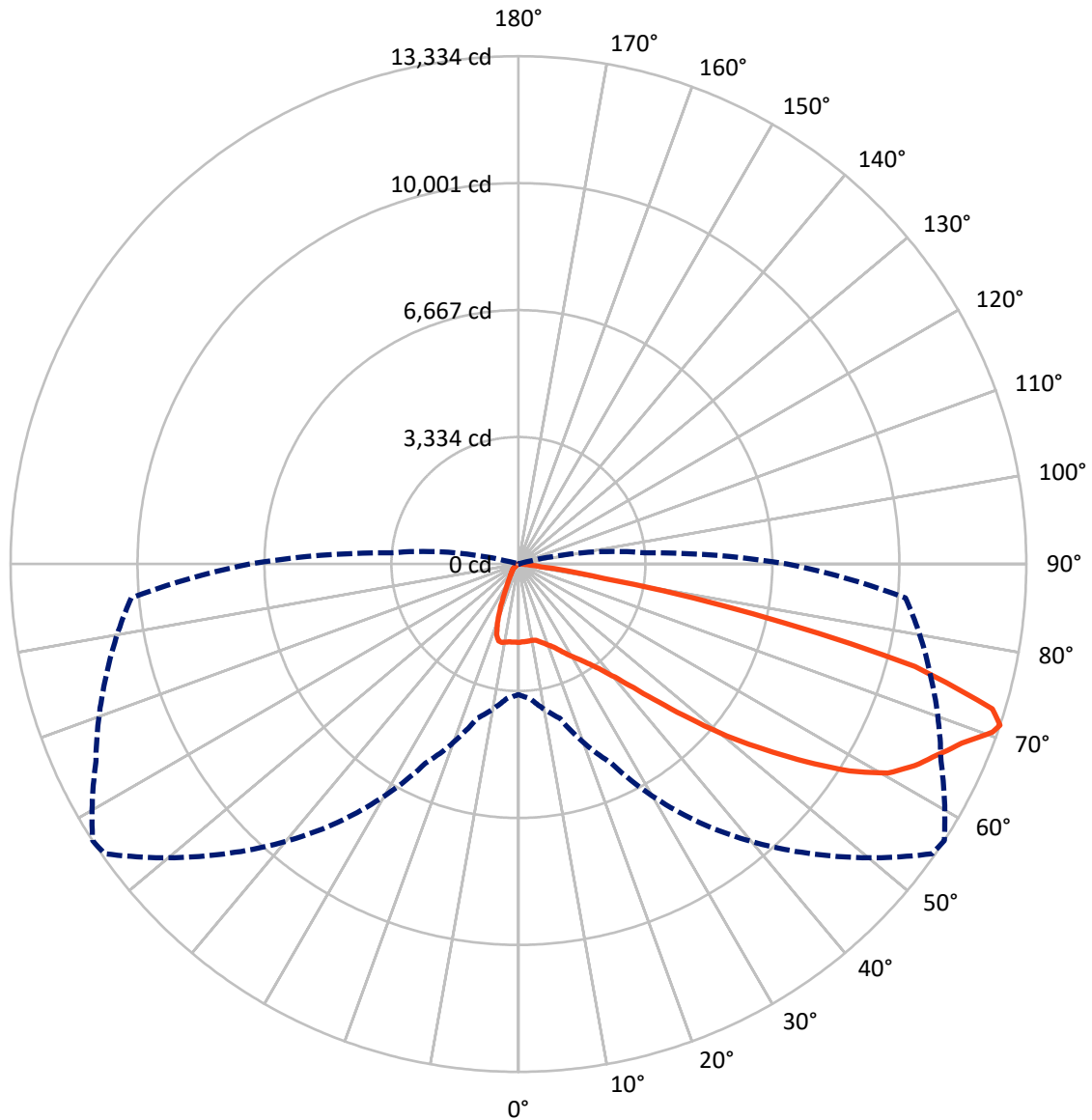


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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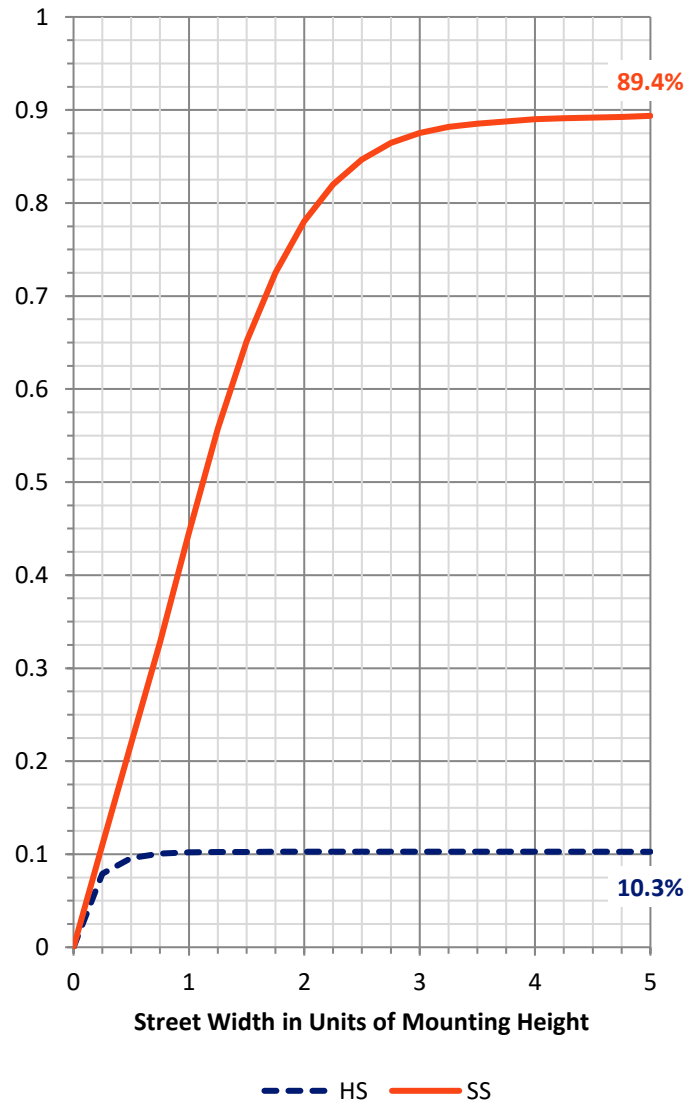
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1890.4	0.0	1890.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	16350.9	0.0	16350.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	18241.3	0.0	18241.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.6	1.1
10°-20°	517.7	2.8
20°-30°	807.5	4.4
30°-40°	1364.9	7.5
40°-50°	2650.9	14.5
50°-60°	4451.8	24.4
60°-70°	5312.8	29.1
70°-80°	2799.9	15.3
80°-90°	142.3	0.8
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°	18241.3	100.0
0°-180°	18241.3	100.0



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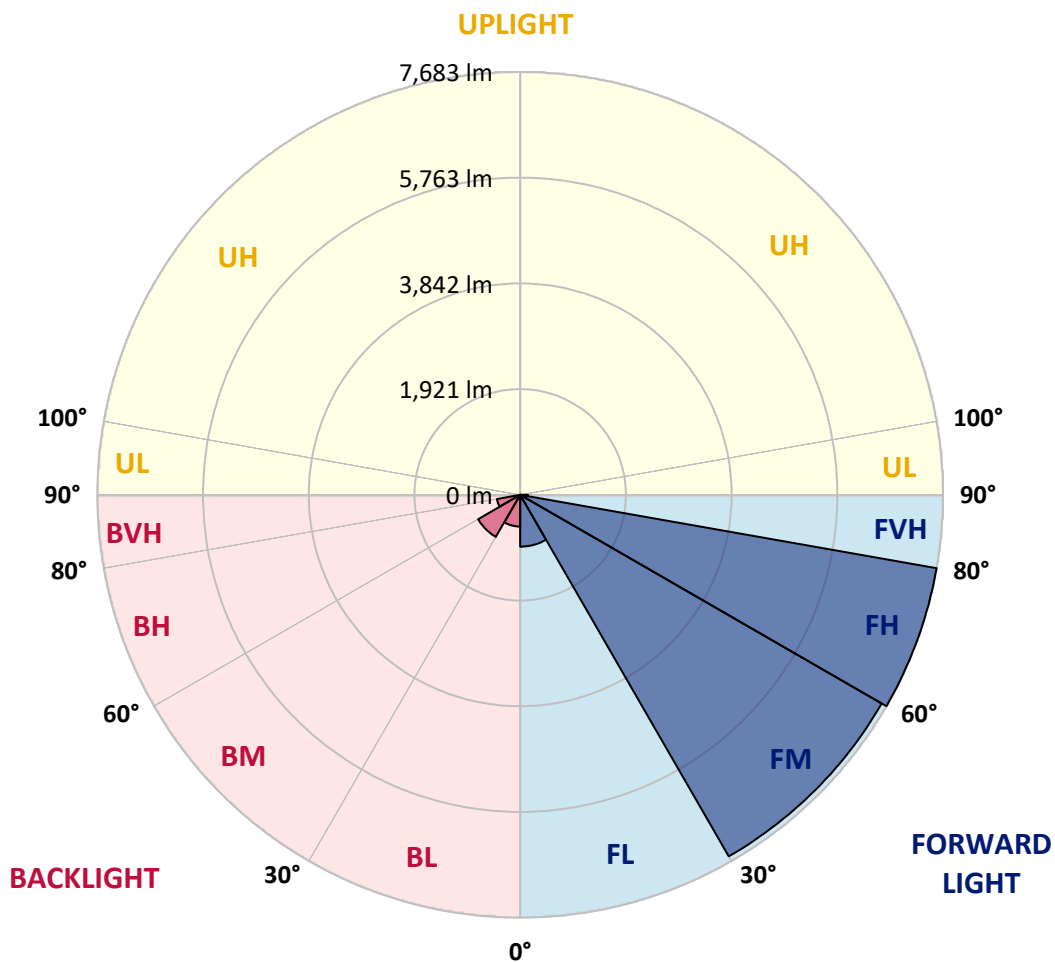
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	941.8	5.2			
FM	(30°-60°)	7584.9	41.6			
FH	(60°-80°)	7683.3	42.1			G4/12000
FVH	(80°-90°)	140.9	0.8			G2/225
BL	(0°-30°)	577.0	3.2	B2/1000		
BM	(30°-60°)	882.7	4.8	B1/1000		
BH	(60°-80°)	429.3	2.4	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: B2-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6
2.5°	2031.8	2031.8	2031.8	2036.1	2040.3	2040.3	2048.8	2044.6	2044.6	2044.6	2053.1
5°	1976.5	1980.7	1985.0	1993.5	2010.5	2023.3	2044.6	2044.6	2048.8	2057.3	2061.6
7.5°	1900.0	1904.2	1917.0	1934.0	1968.1	1997.8	2031.8	2040.3	2053.1	2074.3	2082.8
10°	1853.3	1861.8	1878.8	1900.0	1938.3	1976.5	2019.0	2031.8	2070.0	2108.3	2129.6
12.5°	1840.5	1844.8	1861.8	1895.7	1942.5	1989.2	2044.6	2057.3	2112.5	2172.0	2206.1
15°	1861.8	1866.0	1874.6	1912.8	1968.1	2027.5	2099.8	2116.8	2184.8	2252.8	2295.3
17.5°	1900.0	1900.0	1908.5	1942.5	2002.0	2070.0	2163.5	2189.0	2265.5	2342.0	2388.8
20°	1925.5	1925.5	1938.3	1972.2	2040.3	2129.6	2240.1	2274.0	2359.1	2444.1	2486.6
22.5°	1951.1	1955.3	1968.1	2006.3	2082.8	2206.1	2333.6	2367.6	2465.3	2554.6	2597.1
25°	2023.3	2019.0	2023.3	2057.3	2146.6	2299.6	2461.1	2503.6	2605.7	2703.4	2724.6
27.5°	2223.1	2214.6	2159.3	2138.1	2206.1	2397.3	2622.6	2665.1	2784.2	2881.9	2881.9
30°	2682.1	2665.1	2529.1	2354.8	2299.6	2486.6	2775.7	2835.1	2988.1	3073.1	3047.7
32.5°	3264.4	3226.2	3052.0	2754.4	2533.3	2605.7	2937.2	3005.1	3200.7	3272.9	3217.7
35°	3902.0	3897.7	3681.0	3298.5	2983.9	2852.2	3145.5	3226.2	3472.7	3536.5	3447.2
37.5°	4577.9	4594.9	4450.3	3923.3	3553.5	3256.0	3421.8	3515.3	3817.0	3893.6	3808.5
40°	5330.3	5326.0	5270.8	4645.9	4237.9	3829.8	3821.3	3906.3	4271.8	4390.9	4271.8
42.5°	6282.4	6273.9	6074.1	5513.0	5066.7	4577.9	4403.6	4433.4	4841.4	5036.9	4862.7
45°	7251.5	7192.0	6962.5	6477.9	6082.6	5504.5	5173.0	5173.0	5521.5	5789.3	5517.3
47.5°	7791.3	7731.9	7638.3	7370.6	7251.5	6605.4	6116.6	6057.1	6329.1	6601.2	6218.6
50°	8501.2	8501.2	8267.4	8165.4	8369.4	7914.6	7158.0	7098.5	7230.2	7447.1	6945.4
52.5°	9062.2	8960.2	8794.5	8883.7	9466.1	9257.8	8199.4	8084.6	8186.7	8241.9	7578.8
55°	9296.1	9198.3	9185.6	9512.8	10413.9	10125.0	9266.3	9164.3	9155.8	8883.7	8131.4
57.5°	9342.8	9257.8	9419.3	9993.1	11336.3	10834.8	10328.9	10252.4	10014.4	9334.3	8696.7
60°	8947.5	8990.0	9381.1	10256.7	11880.4	11451.1	11225.9	11145.0	10596.7	9716.9	9325.8
62.5°	8135.6	8237.6	8968.7	10282.2	11680.7	11701.8	11723.1	11667.9	11047.3	10065.4	9959.1
65°	7175.0	7204.7	8084.6	9929.4	11332.0	11625.4	12088.7	12084.4	11391.6	10456.5	10673.3
67.5°	5912.6	5963.6	6724.5	8739.3	10635.0	11591.4	12569.0	12556.2	11782.7	10902.8	11098.3
70°	4399.4	4463.1	5079.5	6796.7	9079.3	11166.3	13198.1	13206.6	12195.0	11242.8	10805.0
71°	3430.3	3545.0	4191.1	5772.3	8284.4	10737.0	13257.6	13334.2	12241.8	11196.1	10201.5
72.5°	1683.3	1819.2	2631.1	4063.6	6818.0	9776.3	12866.6	13015.3	11948.5	10613.7	8722.2
75°	437.8	463.3	786.3	1662.0	3655.5	6477.9	10375.7	10754.0	9767.9	8080.4	5330.3
77.5°	276.3	284.8	369.8	646.1	1368.7	2461.1	6095.4	6282.4	5581.0	4093.3	1878.8
80°	195.5	199.8	233.7	416.5	799.1	718.3	2193.3	2274.0	2019.0	1083.9	335.8
82.5°	119.0	119.0	170.0	267.8	493.1	391.1	578.1	616.3	544.1	301.8	110.5
85°	68.0	72.2	106.3	182.8	233.7	191.3	216.8	229.6	233.7	199.8	46.7
87.5°	55.2	59.5	93.5	153.0	127.6	93.5	93.5	97.8	102.0	119.0	21.3
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°	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6	2061.6
2.5°	2053.1	2053.1	2057.3	2053.1	2053.1	2053.1	2057.3	2057.3	2057.3	2065.7	2070.0
5°	2061.6	2061.6	2061.6	2057.3	2053.1	2053.1	2061.6	2065.7	2065.7	2078.5	2078.5
7.5°	2082.8	2082.8	2074.3	2065.7	2057.3	2044.6	2048.8	2053.1	2048.8	2053.1	2053.1
10°	2129.6	2129.6	2116.8	2099.8	2074.3	2036.1	1985.0	1921.3	1861.8	1840.5	1832.0
12.5°	2206.1	2201.8	2176.3	2146.6	2091.3	1959.6	1768.3	1542.9	1355.9	1305.0	1287.9
15°	2291.1	2282.6	2252.8	2201.8	2053.1	1704.4	1305.0	1015.9	837.4	794.8	786.3
17.5°	2380.3	2367.6	2325.1	2223.1	1878.8	1266.7	841.6	637.6	539.8	531.3	535.6
20°	2473.8	2456.8	2397.3	2180.5	1517.4	845.9	544.1	493.1	484.6	484.6	488.9
22.5°	2580.1	2558.8	2478.1	2027.5	1105.2	561.1	467.6	463.3	459.1	454.8	454.8
25°	2703.4	2677.9	2554.6	1751.3	760.9	459.1	446.3	433.5	425.0	416.5	412.4
27.5°	2852.2	2818.1	2614.2	1411.2	522.8	429.3	420.8	399.6	382.6	365.5	365.5
30°	3000.9	2958.4	2597.1	1062.6	425.0	399.6	382.6	357.0	331.5	314.6	310.3
32.5°	3158.2	3115.7	2486.6	714.1	386.8	365.5	344.3	306.1	276.3	255.0	250.8
35°	3392.0	3357.9	2269.8	471.8	348.5	323.0	293.3	255.0	216.8	195.5	191.3
37.5°	3740.5	3698.0	2002.0	361.3	306.1	267.8	242.2	199.8	161.5	140.2	136.1
40°	4208.1	4080.6	1683.3	318.8	267.8	221.1	187.0	144.5	114.8	102.0	102.0
42.5°	4752.1	4450.3	1338.9	289.1	238.0	182.8	136.1	97.8	80.7	76.5	76.5
45°	5330.3	4794.7	994.6	267.8	208.3	144.5	97.8	68.0	59.5	55.2	55.2
47.5°	5925.3	5075.2	692.8	242.2	174.3	110.5	68.0	51.0	42.6	38.3	38.3
50°	6482.1	5258.0	488.9	216.8	148.7	80.7	51.0	38.3	29.8	29.8	29.8
52.5°	6869.0	5241.0	352.8	187.0	114.8	55.2	34.0	25.5	25.5	25.5	25.5
55°	7209.0	5177.3	276.3	161.5	89.3	38.3	25.5	21.3	21.3	17.0	17.0
57.5°	7498.0	5075.2	233.7	131.8	63.7	29.8	17.0	17.0	12.8	12.8	12.8
60°	7744.6	4947.7	195.5	110.5	42.6	21.3	12.8	8.5	8.5	4.3	8.5
62.5°	8080.4	4866.9	170.0	85.0	29.8	12.8	8.5	4.3	4.3	0.0	0.0
65°	8326.9	4713.9	144.5	59.5	17.0	8.5	4.3	4.3	0.0	0.0	0.0
67.5°	8335.4	4437.7	106.3	34.0	12.8	8.5	4.3	0.0	0.0	0.0	0.0
70°	7663.8	3783.1	68.0	17.0	8.5	4.3	4.3	0.0	0.0	0.0	0.0
71°	7047.5	3349.4	55.2	12.8	8.5	4.3	0.0	0.0	0.0	0.0	0.0
72.5°	5806.3	2461.1	42.6	12.8	4.3	4.3	0.0	0.0	0.0	0.0	0.0
75°	3200.7	892.6	21.3	8.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1024.4	272.0	12.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	174.3	42.6	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	59.5	17.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	4.3	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)