

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: P237214

Luminaire Tested: **ARCH-L-AF72-210-D-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237214
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-AF72-210-D-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 900mA 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: 18799.8 lumens
Efficiency: N/A
Efficacy: 89.1 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): 211
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

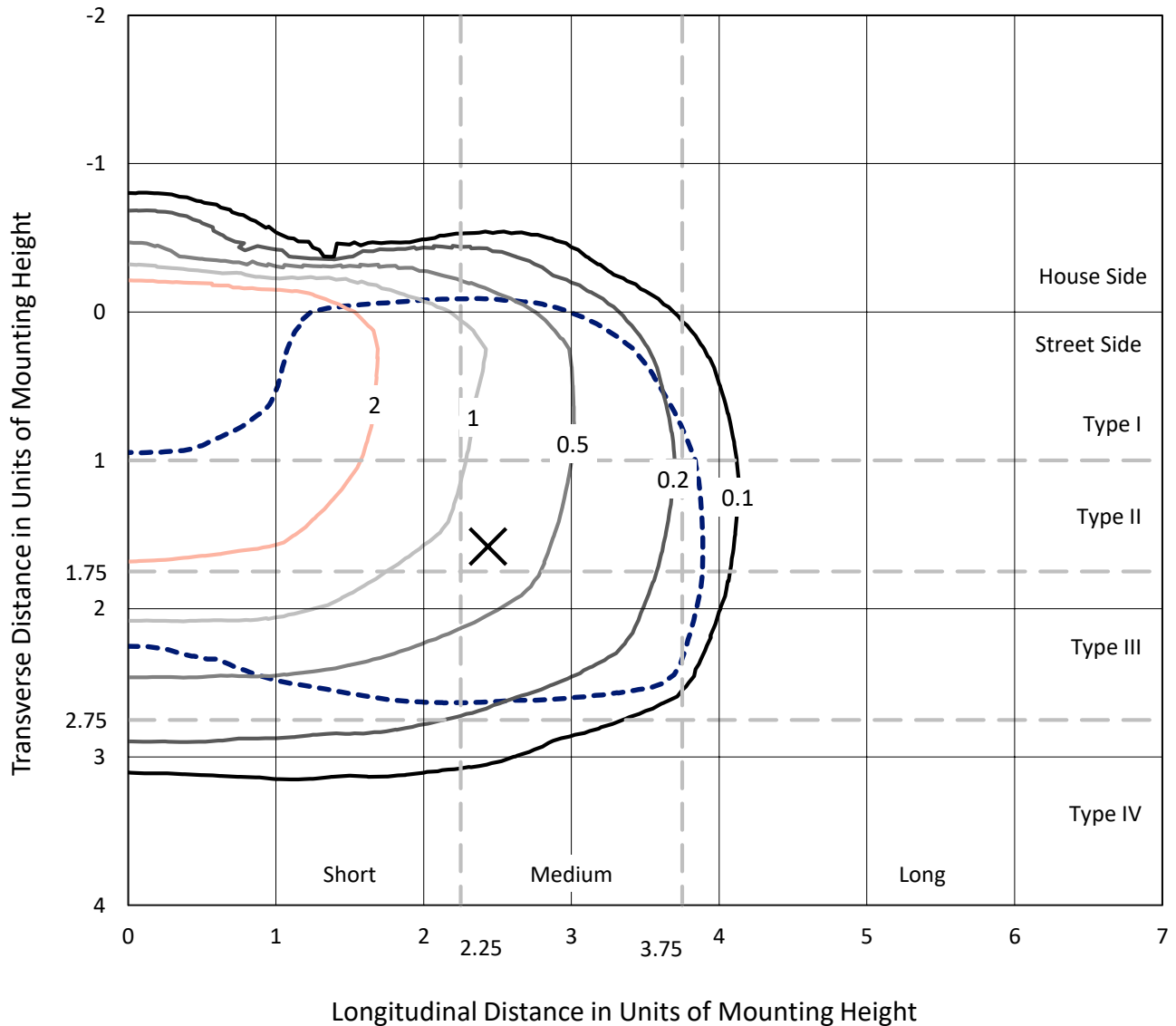


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

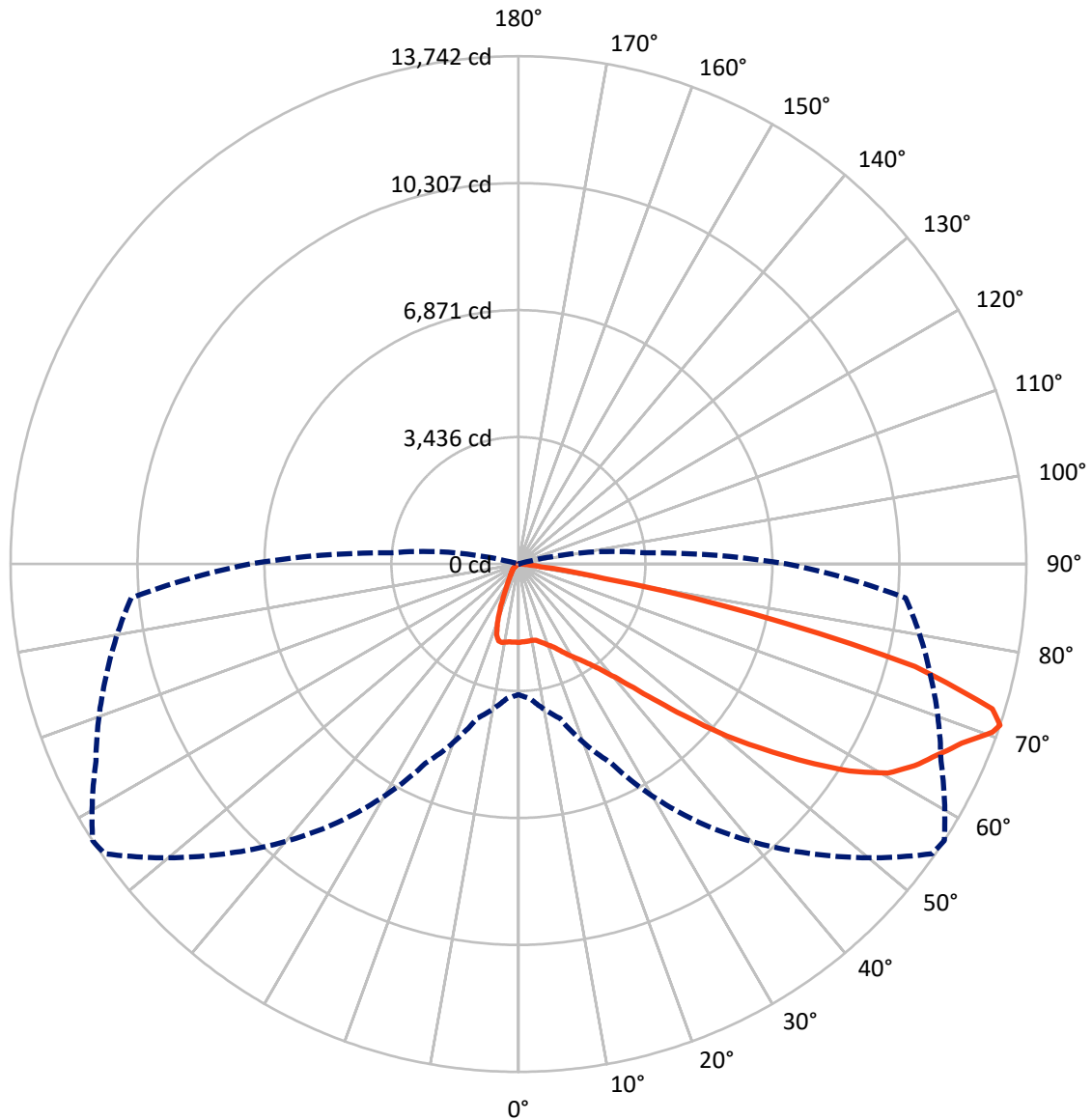


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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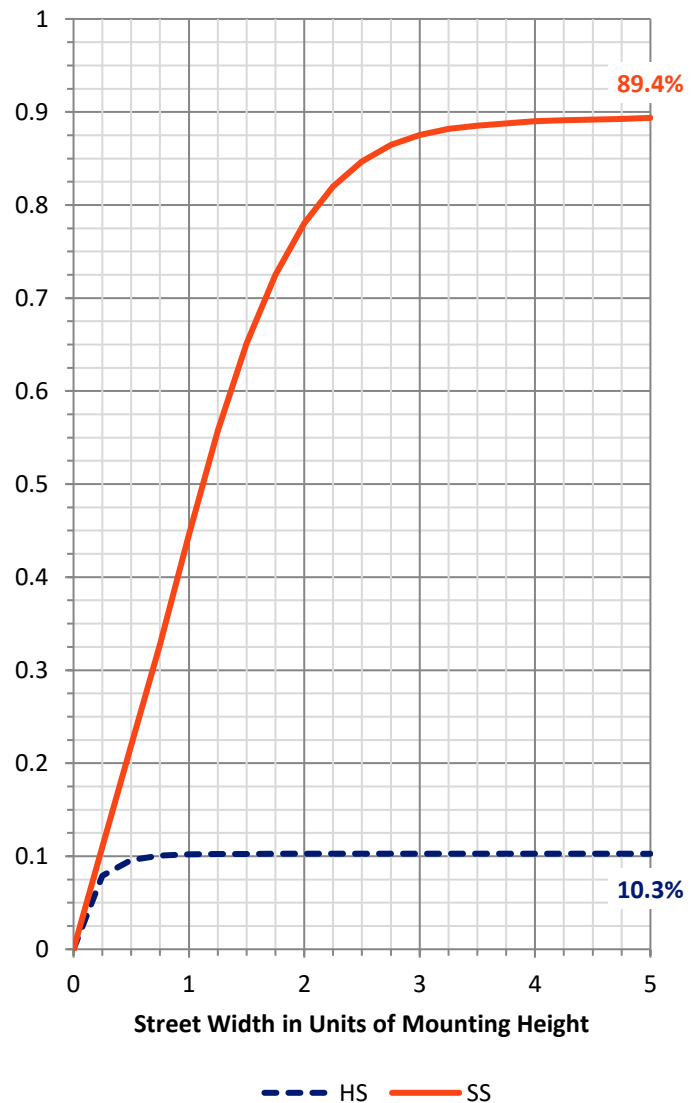
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1948.2	0.0	1948.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	16851.6	0.0	16851.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	18799.8	0.0	18799.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.5	1.1
10°-20°	533.5	2.8
20°-30°	832.3	4.4
30°-40°	1406.7	7.5
40°-50°	2732.1	14.5
50°-60°	4588.1	24.4
60°-70°	5475.4	29.1
70°-80°	2885.6	15.3
80°-90°	146.6	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°	18799.8	100.0
0°-180°	18799.8	100.0



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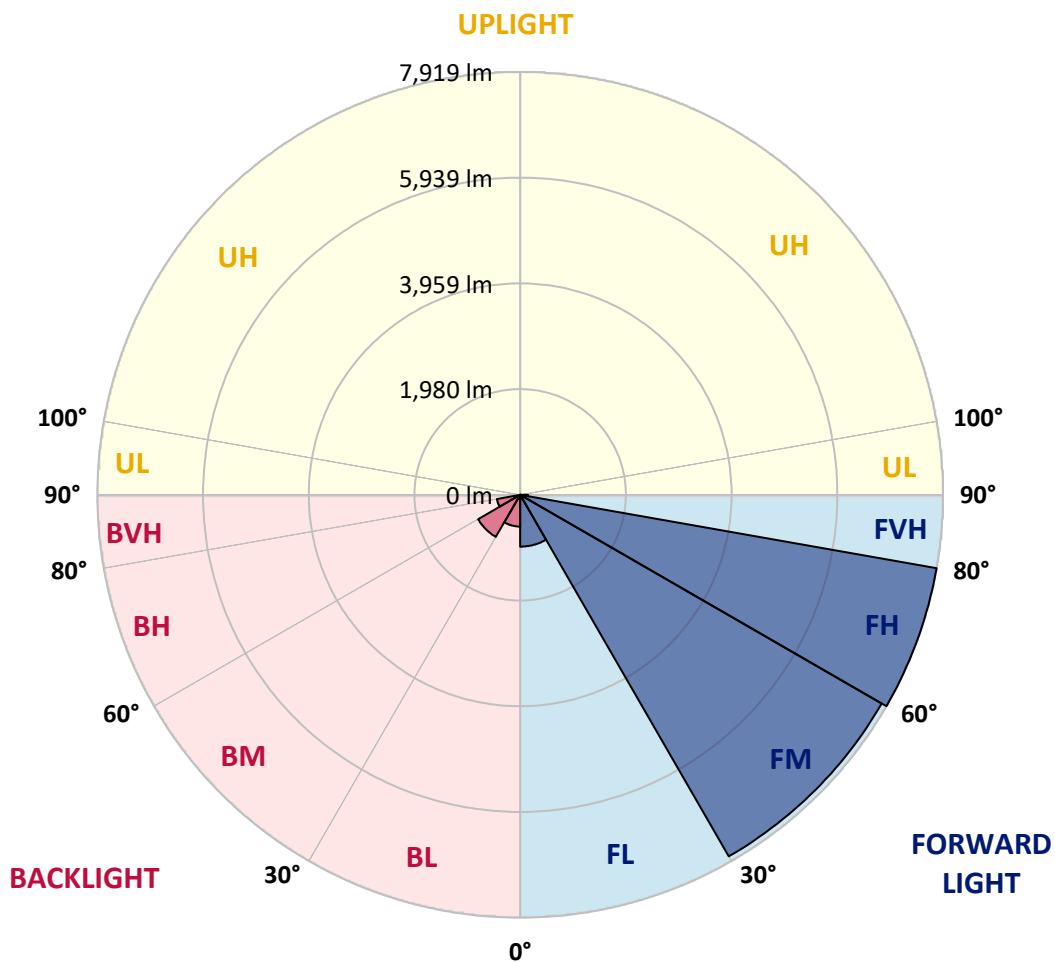
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	970.6	5.2			
FM	(30°-60°)	7817.1	41.6			
FH	(60°-80°)	7918.6	42.1			G4/12000
FVH	(80°-90°)	145.2	0.8			G2/225
BL	(0°-30°)	594.7	3.2	B2/1000		
BM	(30°-60°)	909.7	4.8	B1/1000		
BH	(60°-80°)	442.4	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°	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7
2.5°	2094.0	2094.0	2094.0	2098.4	2102.8	2102.8	2111.5	2107.2	2107.2	2107.2	2115.9
5°	2037.0	2041.4	2045.8	2054.6	2072.1	2085.3	2107.2	2107.2	2111.5	2120.3	2124.7
7.5°	1958.2	1962.5	1975.7	1993.2	2028.3	2059.0	2094.0	2102.8	2115.9	2137.8	2146.6
10°	1910.1	1918.7	1936.2	1958.2	1997.6	2037.0	2080.9	2094.0	2133.5	2172.8	2194.7
12.5°	1896.9	1901.3	1918.7	1953.8	2002.0	2050.2	2107.2	2120.3	2177.2	2238.5	2273.6
15°	1918.7	1923.1	1931.9	1971.3	2028.3	2089.6	2164.1	2181.6	2251.7	2321.8	2365.6
17.5°	1958.2	1958.2	1966.9	2002.0	2063.3	2133.5	2229.8	2256.1	2335.0	2413.8	2461.9
20°	1984.5	1984.5	1997.6	2032.7	2102.8	2194.7	2308.7	2343.7	2431.3	2518.9	2562.7
22.5°	2010.7	2015.1	2028.3	2067.7	2146.6	2273.6	2405.1	2440.0	2540.8	2632.9	2676.7
25°	2085.3	2080.9	2085.3	2120.3	2212.2	2370.0	2536.4	2580.3	2685.3	2786.1	2808.1
27.5°	2291.1	2282.4	2225.4	2203.5	2273.6	2470.7	2702.9	2746.7	2869.4	2970.1	2970.1
30°	2764.2	2746.7	2606.6	2427.0	2370.0	2562.7	2860.6	2922.0	3079.7	3167.3	3141.0
32.5°	3364.4	3325.0	3145.4	2838.7	2610.9	2685.3	3027.1	3097.2	3298.7	3373.2	3316.2
35°	4021.5	4017.1	3793.7	3399.5	3075.3	2939.4	3241.7	3325.0	3579.1	3644.8	3552.8
37.5°	4718.1	4735.5	4586.6	4043.4	3662.3	3355.7	3526.5	3622.9	3933.9	4012.7	3925.2
40°	5493.5	5489.1	5432.1	4788.1	4367.6	3947.1	3938.3	4025.9	4402.7	4525.3	4402.7
42.5°	6474.8	6466.0	6260.0	5681.8	5221.9	4718.1	4538.4	4569.1	4989.6	5191.2	5011.5
45°	7473.6	7412.2	7175.7	6676.3	6268.8	5673.1	5331.4	5331.4	5690.6	5966.6	5686.2
47.5°	8029.9	7968.6	7872.2	7596.2	7473.6	6807.6	6303.9	6242.6	6522.9	6803.3	6409.0
50°	8761.5	8761.5	8520.6	8415.4	8625.7	8156.9	7377.2	7315.8	7451.7	7675.1	7158.1
52.5°	9339.7	9234.6	9063.8	9155.7	9755.9	9541.3	8450.5	8332.1	8437.3	8494.3	7810.8
55°	9580.7	9479.9	9466.8	9804.1	10732.8	10434.9	9550.1	9444.9	9436.1	9155.7	8380.3
57.5°	9628.8	9541.3	9707.7	10299.2	11683.4	11166.5	10645.2	10566.4	10321.1	9620.1	8963.0
60°	9221.5	9265.3	9668.3	10570.8	12244.2	11801.7	11569.6	11486.3	10921.2	10014.4	9611.3
62.5°	8384.7	8489.9	9243.4	10597.1	12038.3	12060.2	12082.1	12025.2	11385.5	10373.6	10264.1
65°	7394.7	7425.4	8332.1	10233.4	11679.0	11981.3	12458.8	12454.4	11740.4	10776.6	11000.1
67.5°	6093.6	6146.2	6930.4	9006.8	10960.6	11946.3	12953.8	12940.7	12143.4	11236.6	11438.1
70°	4534.0	4599.8	5235.0	7004.9	9357.2	11508.2	13602.2	13611.0	12568.4	11587.1	11135.8
71°	3535.2	3653.6	4319.4	5949.1	8538.1	11065.8	13663.6	13742.4	12616.6	11538.9	10513.8
72.5°	1734.8	1875.0	2711.6	4188.0	7026.8	10075.8	13260.5	13413.9	12314.3	10938.7	8989.3
75°	451.2	477.5	810.5	1712.8	3767.4	6676.3	10693.4	11083.3	10067.0	8327.8	5493.5
77.5°	284.8	293.5	381.2	665.8	1410.6	2536.4	6281.9	6474.8	5752.0	4218.6	1936.2
80°	201.5	205.9	240.9	429.3	823.6	740.3	2260.4	2343.7	2080.9	1117.1	346.1
82.5°	122.7	122.7	175.2	276.0	508.2	403.0	595.8	635.3	560.8	311.1	113.9
85°	70.1	74.5	109.6	188.3	240.9	197.1	223.4	236.6	240.9	205.9	48.2
87.5°	57.0	61.4	96.4	157.7	131.4	96.4	96.4	100.8	105.2	122.7	21.9
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°	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7
2.5°	2115.9	2115.9	2120.3	2115.9	2115.9	2115.9	2120.3	2120.3	2120.3	2129.1	2133.5
5°	2124.7	2124.7	2124.7	2120.3	2115.9	2115.9	2124.7	2129.1	2129.1	2142.2	2142.2
7.5°	2146.6	2146.6	2137.8	2129.1	2120.3	2107.2	2111.5	2115.9	2111.5	2115.9	2115.9
10°	2194.7	2194.7	2181.6	2164.1	2137.8	2098.4	2045.8	1980.1	1918.7	1896.9	1888.1
12.5°	2273.6	2269.2	2242.9	2212.2	2155.4	2019.5	1822.4	1590.2	1397.5	1344.9	1327.4
15°	2361.2	2352.5	2321.8	2269.2	2115.9	1756.7	1344.9	1047.0	863.0	819.2	810.5
17.5°	2453.2	2440.0	2396.3	2291.1	1936.2	1305.5	867.4	657.1	556.4	547.6	552.0
20°	2549.6	2532.1	2470.7	2247.3	1563.9	871.8	560.8	508.2	499.4	499.4	503.8
22.5°	2659.2	2637.2	2554.0	2089.6	1139.0	578.3	481.9	477.5	473.1	468.7	468.7
25°	2786.1	2759.8	2632.9	1804.9	784.2	473.1	460.0	446.8	438.0	429.3	424.9
27.5°	2939.4	2904.5	2694.1	1454.4	538.8	442.4	433.7	411.8	394.2	376.8	376.8
30°	3092.8	3049.0	2676.7	1095.2	438.0	411.8	394.2	368.0	341.7	324.2	319.8
32.5°	3254.9	3211.0	2562.7	736.0	398.6	376.8	354.9	315.4	284.8	262.8	258.5
35°	3495.8	3460.7	2339.3	486.3	359.3	333.0	302.3	262.8	223.4	201.5	197.1
37.5°	3855.1	3811.2	2063.3	372.4	315.4	276.0	249.7	205.9	166.4	144.5	140.1
40°	4336.9	4205.6	1734.8	328.6	276.0	227.8	192.7	148.9	118.3	105.2	105.2
42.5°	4897.7	4586.6	1380.0	297.9	245.3	188.3	140.1	100.8	83.3	78.9	78.9
45°	5493.5	4941.5	1025.1	276.0	214.6	148.9	100.8	70.1	61.4	57.0	57.0
47.5°	6106.7	5230.7	714.0	249.7	179.6	113.9	70.1	52.6	43.8	39.4	39.4
50°	6680.7	5419.0	503.8	223.4	153.3	83.3	52.6	39.4	30.7	30.7	30.7
52.5°	7079.3	5401.5	363.6	192.7	118.3	57.0	35.1	26.3	26.3	26.3	26.3
55°	7429.8	5335.7	284.8	166.4	92.0	39.4	26.3	21.9	21.9	17.5	17.5
57.5°	7727.7	5230.7	240.9	135.8	65.7	30.7	17.5	17.5	13.1	13.1	13.1
60°	7981.7	5099.2	201.5	113.9	43.8	21.9	13.1	8.8	8.8	4.4	8.8
62.5°	8327.8	5015.9	175.2	87.6	30.7	13.1	8.8	4.4	4.4	0.0	0.0
65°	8581.8	4858.2	148.9	61.4	17.5	8.8	4.4	4.4	0.0	0.0	0.0
67.5°	8590.6	4573.5	109.6	35.1	13.1	8.8	4.4	0.0	0.0	0.0	0.0
70°	7898.5	3898.9	70.1	17.5	8.8	4.4	4.4	0.0	0.0	0.0	0.0
71°	7263.3	3452.0	57.0	13.1	8.8	4.4	0.0	0.0	0.0	0.0	0.0
72.5°	5984.1	2536.4	43.8	13.1	4.4	4.4	0.0	0.0	0.0	0.0	0.0
75°	3298.7	919.9	21.9	8.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1055.8	280.4	13.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	179.6	43.8	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	61.4	17.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.5	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.8	4.4	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)