

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: P237219

Luminaire Tested: **ARCH-L-AF72-260-D-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237219
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-AF72-260-D-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1110mA 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: 21594.5 lumens
Efficiency: N/A
Efficacy: 82.7 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

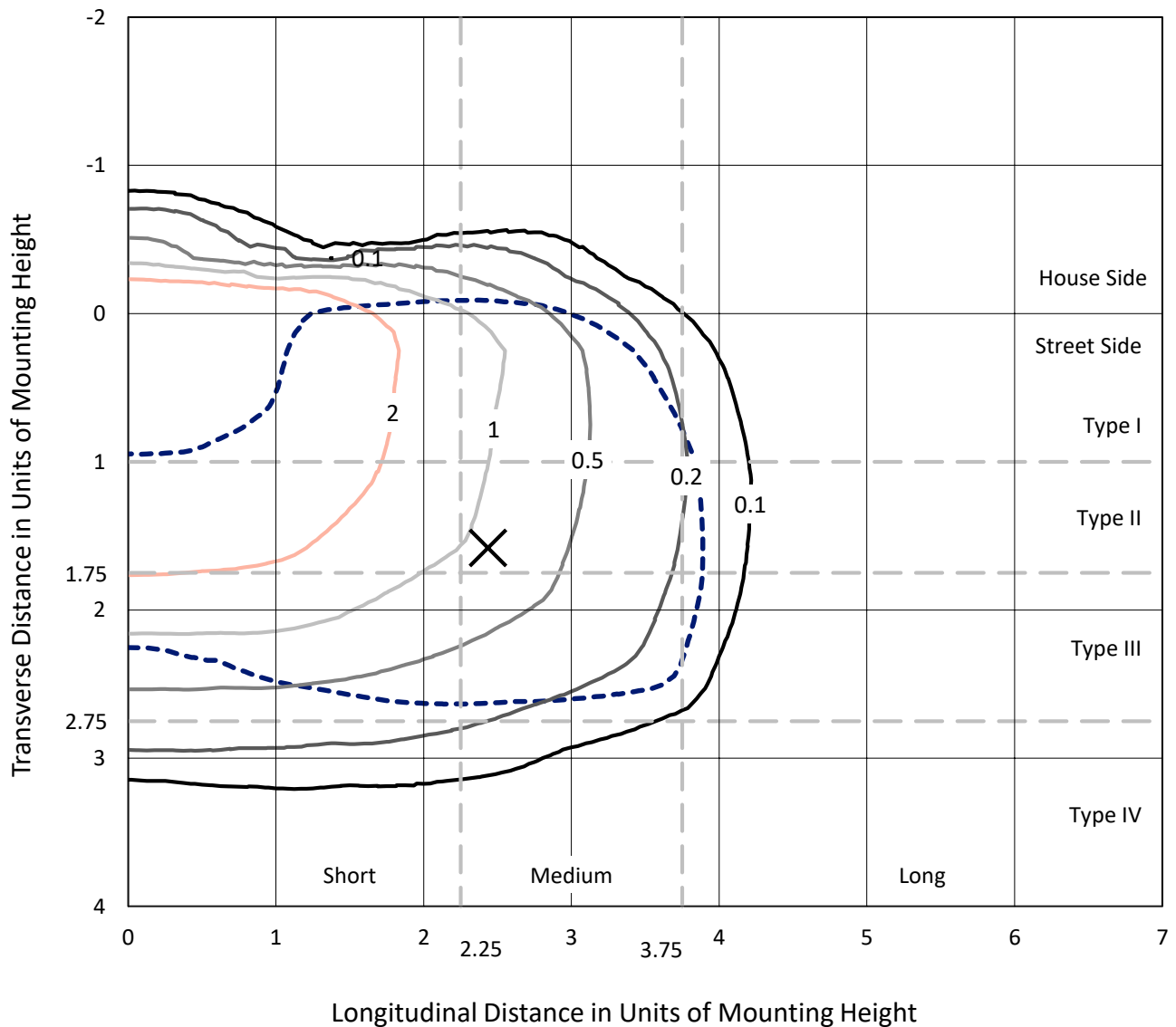
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

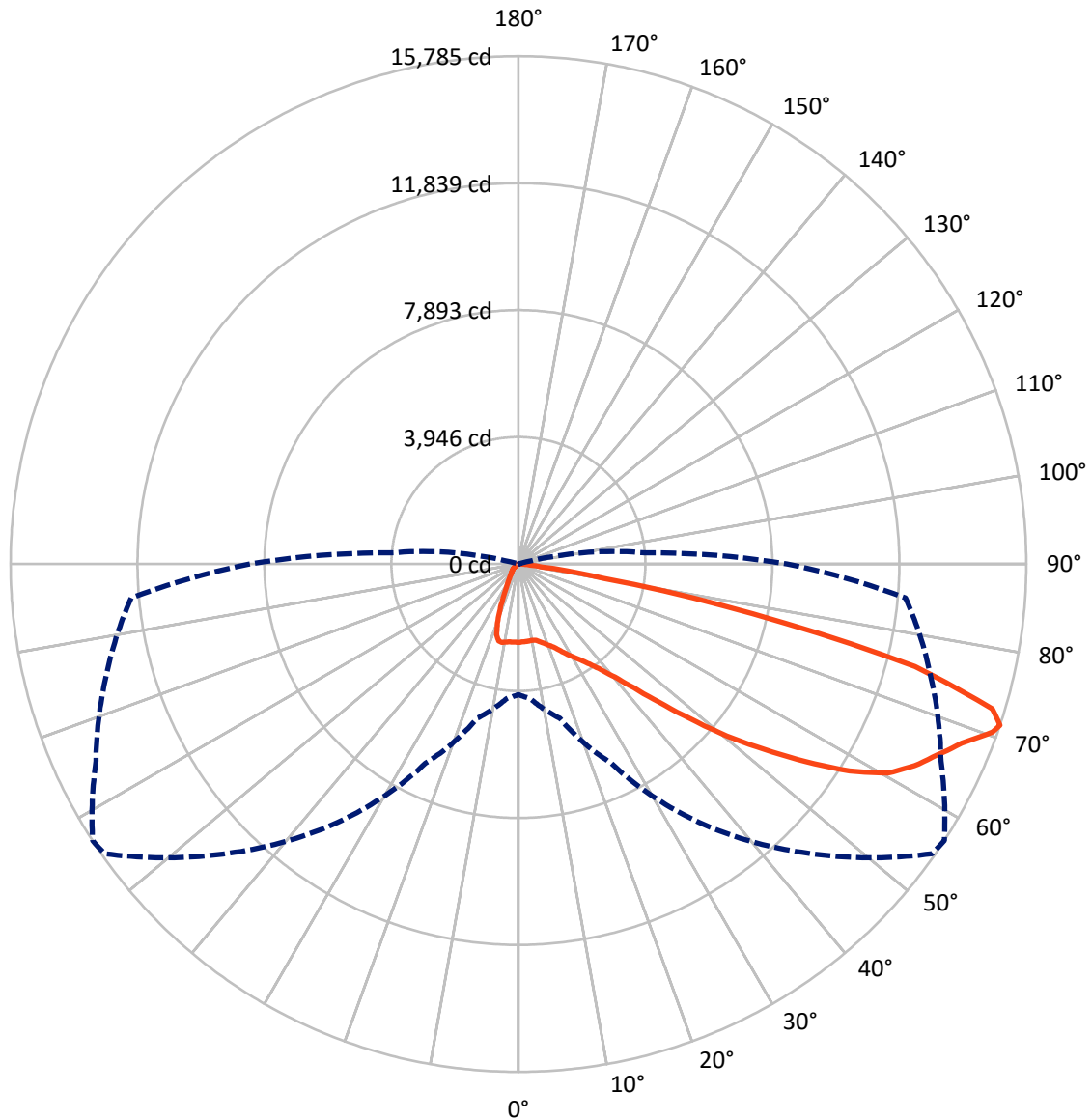


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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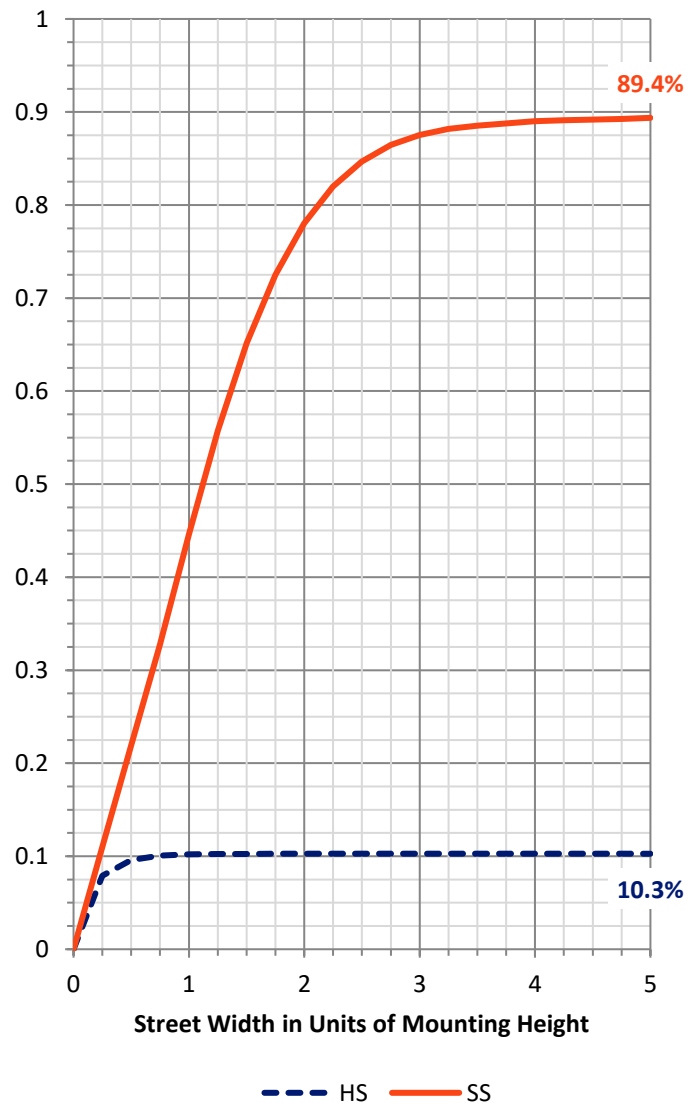
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2237.9	0.0	2237.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	19356.6	0.0	19356.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	21594.5	0.0	21594.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.2	1.1
10°-20°	612.8	2.8
20°-30°	956.0	4.4
30°-40°	1615.8	7.5
40°-50°	3138.2	14.5
50°-60°	5270.1	24.4
60°-70°	6289.4	29.1
70°-80°	3314.6	15.3
80°-90°	168.4	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°	21594.5	100.0
0°-180°	21594.5	100.0



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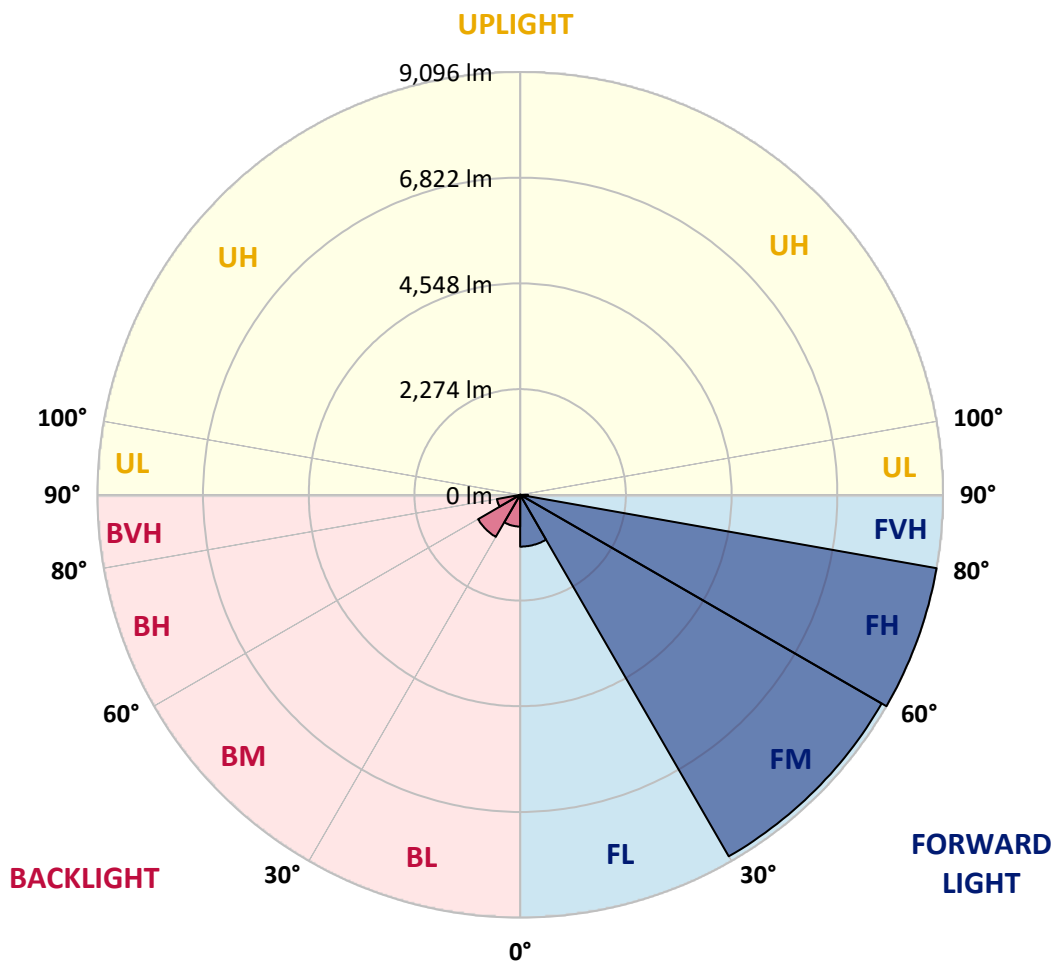
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1114.9	5.2			
FM	(30°-60°)	8979.2	41.6			
FH	(60°-80°)	9095.8	42.1			G4/12000
FVH	(80°-90°)	166.8	0.8			G2/225
BL	(0°-30°)	683.1	3.2	B2/1000		
BM	(30°-60°)	1044.9	4.8	B2/2500		
BH	(60°-80°)	508.2	2.4	B2/1000		G2/1000
BVH	(80°-90°)	1.6	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°	2440.6	2440.6	2440.6	2440.6	2440.6	2440.6	2440.6	2440.6	2440.6	2440.6	2440.6
2.5°	2405.3	2405.3	2405.3	2410.3	2415.4	2415.4	2425.4	2420.4	2420.4	2420.4	2430.4
5°	2339.9	2344.9	2349.9	2359.9	2380.1	2395.2	2420.4	2420.4	2425.4	2435.4	2440.6
7.5°	2249.3	2254.3	2269.4	2289.6	2329.8	2365.1	2405.3	2415.4	2430.4	2455.6	2465.6
10°	2193.9	2204.0	2224.1	2249.3	2294.6	2339.9	2390.2	2405.3	2450.6	2495.9	2521.1
12.5°	2178.9	2183.9	2204.0	2244.3	2299.6	2354.9	2420.4	2435.4	2500.9	2571.3	2611.6
15°	2204.0	2209.1	2219.1	2264.4	2329.8	2400.3	2485.8	2505.9	2586.4	2666.9	2717.3
17.5°	2249.3	2249.3	2259.4	2299.6	2370.1	2450.6	2561.3	2591.4	2682.1	2772.6	2827.9
20°	2279.4	2279.4	2294.6	2334.8	2415.4	2521.1	2651.9	2692.1	2792.8	2893.4	2943.7
22.5°	2309.7	2314.7	2329.8	2375.1	2465.6	2611.6	2762.6	2802.8	2918.6	3024.3	3074.6
25°	2395.2	2390.2	2395.2	2435.4	2541.1	2722.3	2913.5	2963.8	3084.6	3200.3	3225.5
27.5°	2631.7	2621.6	2556.3	2531.1	2611.6	2838.1	3104.8	3155.1	3295.9	3411.6	3411.6
30°	3175.1	3155.1	2994.0	2787.7	2722.3	2943.7	3285.9	3356.3	3537.5	3638.1	3607.9
32.5°	3864.5	3819.3	3613.0	3260.8	2999.1	3084.6	3477.1	3557.6	3789.1	3874.6	3809.2
35°	4619.3	4614.3	4357.7	3904.8	3532.5	3376.5	3723.6	3819.3	4111.1	4186.6	4081.0
37.5°	5419.4	5439.5	5268.5	4644.5	4206.7	3854.5	4050.8	4161.5	4518.7	4609.3	4508.7
40°	6310.1	6305.1	6239.6	5499.9	5016.9	4533.8	4523.7	4624.4	5057.2	5198.0	5057.2
42.5°	7437.3	7427.2	7190.7	6526.4	5998.1	5419.4	5213.2	5248.4	5731.4	5962.9	5756.6
45°	8584.5	8514.1	8242.3	7668.8	7200.8	6516.4	6123.9	6123.9	6536.6	6853.6	6531.5
47.5°	9223.6	9153.2	9042.5	8725.5	8584.5	7819.6	7241.0	7170.6	7492.6	7814.6	7361.8
50°	10063.9	10063.9	9787.2	9666.4	9908.0	9369.5	8473.8	8403.4	8559.3	8816.0	8222.3
52.5°	10728.2	10607.4	10411.2	10516.9	11206.2	10959.6	9706.7	9570.8	9691.5	9757.0	8972.0
55°	11004.9	10889.2	10874.1	11261.6	12328.3	11986.1	10969.7	10848.9	10838.9	10516.9	9626.2
57.5°	11060.2	10959.6	11150.9	11830.1	13420.3	12826.5	12227.6	12137.1	11855.3	11050.2	10295.4
60°	10592.2	10642.6	11105.6	12142.1	14064.3	13556.1	13289.5	13193.8	12544.7	11503.1	11040.1
62.5°	9631.2	9752.0	10617.4	12172.3	13827.8	13853.0	13878.2	13812.8	13078.1	11915.7	11789.9
65°	8494.0	8529.2	9570.8	11754.7	13415.2	13762.5	14310.9	14305.9	13485.7	12378.6	12635.3
67.5°	6999.4	7059.9	7960.6	10345.7	12590.0	13722.2	14879.5	14864.4	13948.7	12907.0	13138.5
70°	5208.0	5283.5	6013.2	8046.1	10748.2	13219.0	15624.2	15634.4	14436.7	13309.5	12791.3
71°	4060.8	4196.7	4961.5	6833.4	9807.3	12710.8	15694.7	15785.3	14492.0	13254.2	12076.8
72.5°	1992.7	2153.7	3114.8	4810.5	8071.3	11573.6	15231.7	15407.9	14144.9	12564.8	10325.6
75°	518.3	548.5	930.9	1967.5	4327.5	7668.8	12283.1	12730.9	11563.4	9565.8	6310.1
77.5°	327.0	337.2	437.8	764.9	1620.3	2913.5	7215.8	7437.3	6606.9	4845.8	2224.1
80°	231.5	236.5	276.7	493.2	946.0	850.4	2596.5	2692.1	2390.2	1283.2	397.5
82.5°	140.9	140.9	201.3	317.0	583.7	463.0	684.4	729.7	644.0	357.3	130.8
85°	80.5	85.5	125.8	216.4	276.7	226.5	256.7	271.7	276.7	236.5	55.3
87.5°	65.4	70.5	110.7	181.2	151.0	110.7	110.7	115.7	120.8	140.9	25.2
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°	2440.6	2440.6	2440.6	2440.6	2440.6	2440.6	2440.6	2440.6	2440.6	2440.6	2440.6
2.5°	2430.4	2430.4	2435.4	2430.4	2430.4	2430.4	2435.4	2435.4	2435.4	2445.6	2450.6
5°	2440.6	2440.6	2440.6	2435.4	2430.4	2430.4	2440.6	2445.6	2445.6	2460.6	2460.6
7.5°	2465.6	2465.6	2455.6	2445.6	2435.4	2420.4	2425.4	2430.4	2425.4	2430.4	2430.4
10°	2521.1	2521.1	2505.9	2485.8	2455.6	2410.3	2349.9	2274.4	2204.0	2178.9	2168.8
12.5°	2611.6	2606.6	2576.4	2541.1	2475.7	2319.7	2093.3	1826.6	1605.2	1544.9	1524.7
15°	2712.3	2702.1	2666.9	2606.6	2430.4	2017.8	1544.9	1202.7	991.3	941.0	930.9
17.5°	2817.9	2802.8	2752.5	2631.7	2224.1	1499.5	996.4	754.8	639.0	629.0	634.0
20°	2928.6	2908.5	2838.1	2581.4	1796.4	1001.4	644.0	583.7	573.7	573.7	578.7
22.5°	3054.4	3029.3	2933.6	2400.3	1308.4	664.2	553.5	548.5	543.5	538.4	538.4
25°	3200.3	3170.1	3024.3	2073.2	900.7	543.5	528.4	513.2	503.2	493.2	488.2
27.5°	3376.5	3336.1	3094.6	1670.6	618.9	508.2	498.2	473.0	452.9	432.7	432.7
30°	3552.6	3502.3	3074.6	1258.0	503.2	473.0	452.9	422.7	392.5	372.4	367.3
32.5°	3738.8	3688.5	2943.7	845.4	457.9	432.7	407.5	362.3	327.0	301.9	296.9
35°	4015.5	3975.3	2687.1	558.5	412.7	382.4	347.2	301.9	256.7	231.5	226.5
37.5°	4428.1	4377.8	2370.1	427.7	362.3	317.0	286.8	236.5	191.2	166.0	161.0
40°	4981.7	4830.7	1992.7	377.4	317.0	261.7	221.4	171.0	135.8	120.8	120.8
42.5°	5625.7	5268.5	1585.1	342.2	281.8	216.4	161.0	115.7	95.6	90.5	90.5
45°	6310.1	5676.0	1177.5	317.0	246.5	171.0	115.7	80.5	70.5	65.4	65.4
47.5°	7014.6	6008.2	820.2	286.8	206.3	130.8	80.5	60.4	50.3	45.3	45.3
50°	7673.8	6224.6	578.7	256.7	176.2	95.6	60.4	45.3	35.2	35.2	35.2
52.5°	8131.6	6204.4	417.7	221.4	135.8	65.4	40.3	30.2	30.2	30.2	30.2
55°	8534.2	6128.9	327.0	191.2	105.7	45.3	30.2	25.2	25.2	20.2	20.2
57.5°	8876.3	6008.2	276.7	156.0	75.5	35.2	20.2	20.2	15.1	15.1	15.1
60°	9168.2	5857.2	231.5	130.8	50.3	25.2	15.1	10.0	10.0	5.0	10.0
62.5°	9565.8	5761.6	201.3	100.7	35.2	15.1	10.0	5.0	5.0	0.0	0.0
65°	9857.7	5580.5	171.0	70.5	20.2	10.0	5.0	5.0	0.0	0.0	0.0
67.5°	9867.7	5253.4	125.8	40.3	15.1	10.0	5.0	0.0	0.0	0.0	0.0
70°	9072.7	4478.5	80.5	20.2	10.0	5.0	5.0	0.0	0.0	0.0	0.0
71°	8343.0	3965.2	65.4	15.1	10.0	5.0	0.0	0.0	0.0	0.0	0.0
72.5°	6873.7	2913.5	50.3	15.1	5.0	5.0	0.0	0.0	0.0	0.0	0.0
75°	3789.1	1056.7	25.2	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1212.7	322.0	15.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	206.3	50.3	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	70.5	20.2	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.2	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.0	5.0	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)