

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: P265732

Luminaire Tested: **ARCH-L-AF72-260-D-U-T4W-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29625)
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-T4W-7027-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18106.4 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - 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

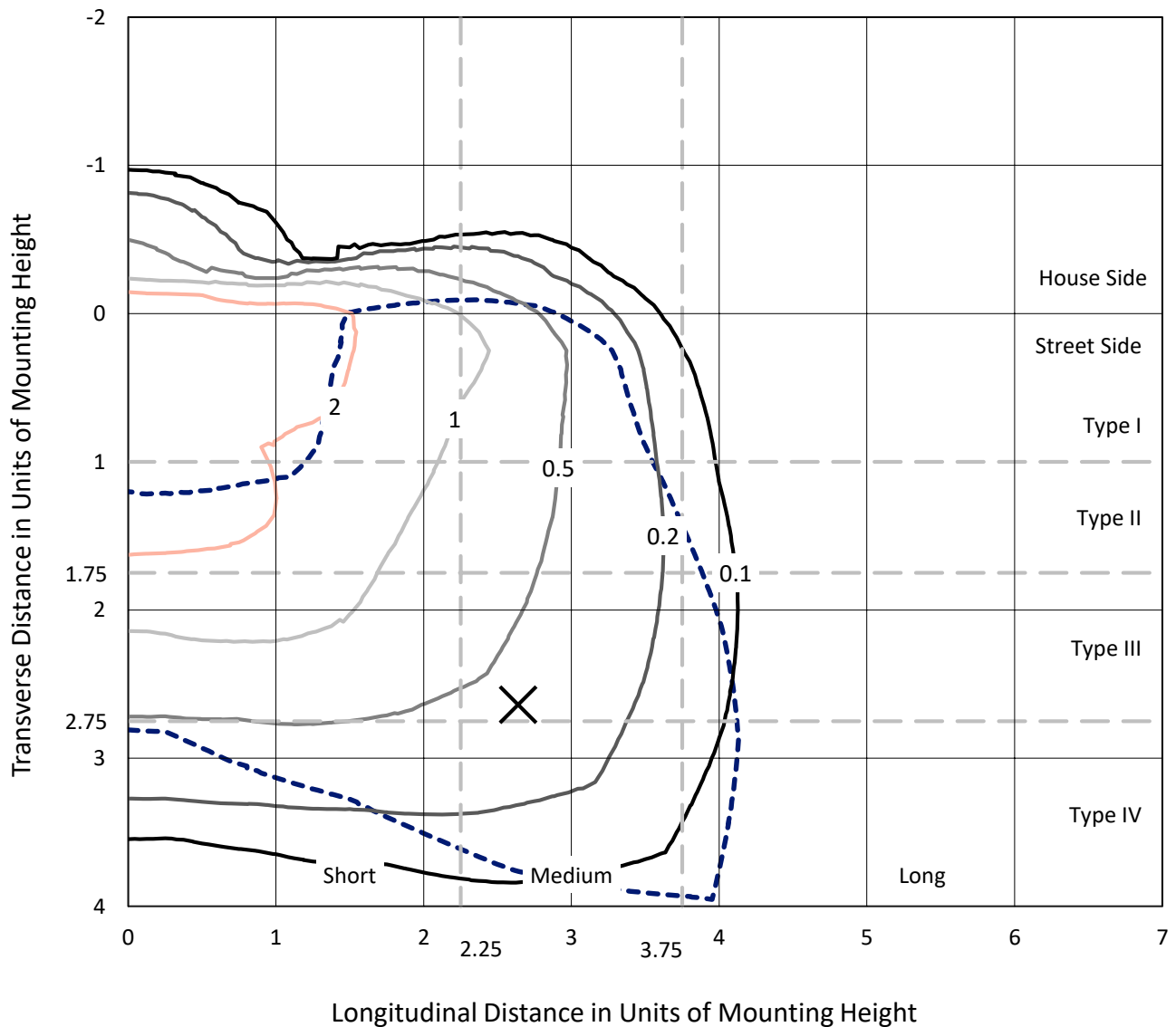


REPORT NUMBER: P265732

CATALOG NUMBER: ARCH-L-AF72-260-D-U-T4W-7027-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

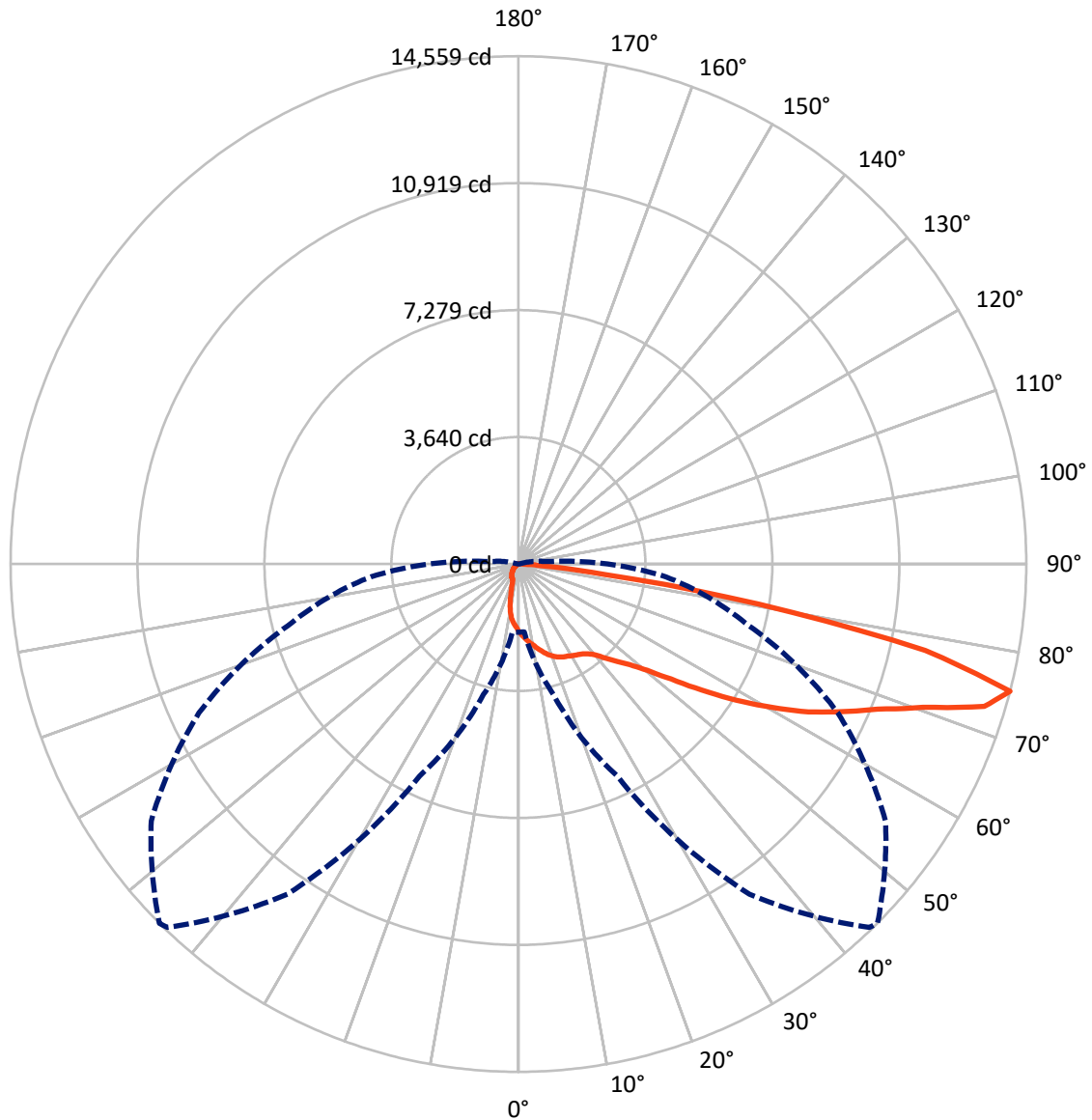


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P265732

CATALOG NUMBER: ARCH-L-AF72-260-D-U-T4W-7027-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P265732

CATALOG NUMBER: ARCH-L-AF72-260-D-U-T4W-7027-HSS

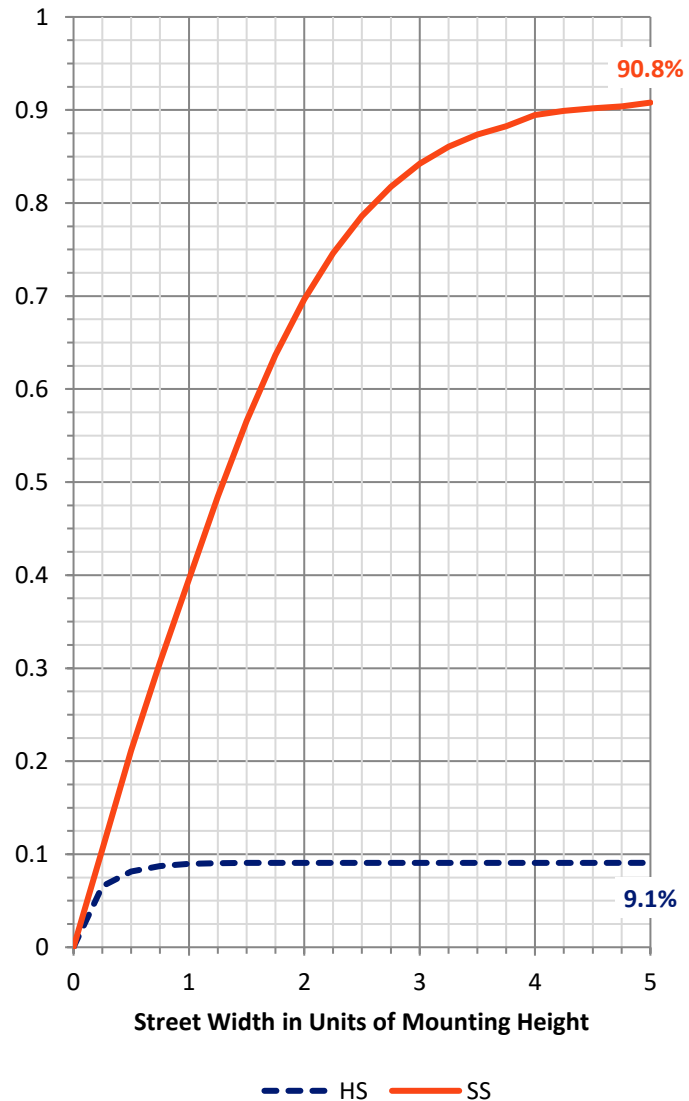
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1656.2	0.0	1656.2
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	16450.2	0.0	16450.2
	% Fixture	90.9	0.0	90.9
Total	Lumens	18106.4	0.0	18106.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	1.0
10°-20°	517.8	2.9
20°-30°	857.5	4.7
30°-40°	1241.1	6.9
40°-50°	2032.2	11.2
50°-60°	3620.9	20.0
60°-70°	5323.2	29.4
70°-80°	4015.9	22.2
80°-90°	315.1	1.7
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°	18106.4	100.0
0°-180°	18106.4	100.0



REPORT NUMBER: P265732

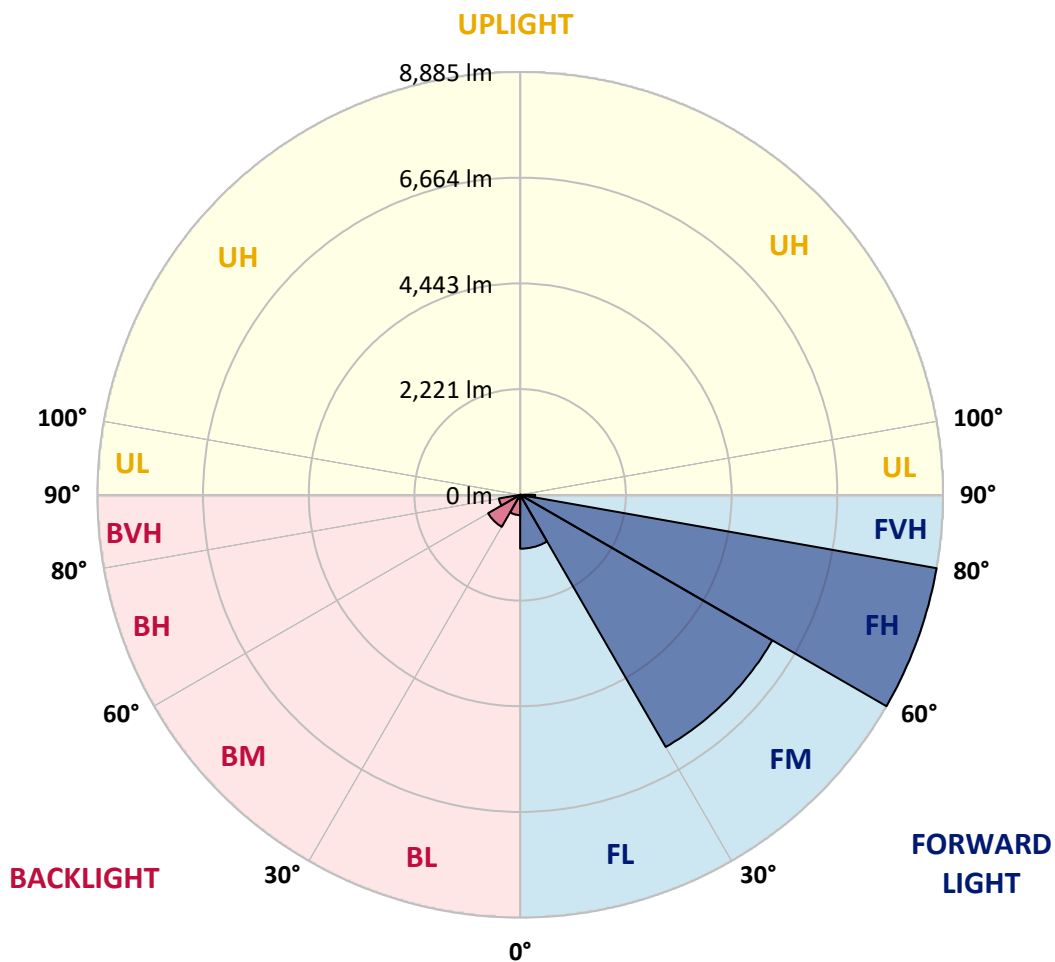
CATALOG NUMBER: ARCH-L-AF72-260-D-U-T4W-7027-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1132.5	6.3			
FM	(30°-60°)	6118.0	33.8			
FH	(60°-80°)	8885.5	49.1			G4/12000
FVH	(80°-90°)	314.2	1.7			G3/500
BL	(0°-30°)	425.6	2.4	B1/500		
BM	(30°-60°)	776.1	4.3	B1/1000		
BH	(60°-80°)	453.6	2.5	B1/500		G1/500
BVH	(80°-90°)	0.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Medium





REPORT NUMBER: P265732

CATALOG NUMBER: ARCH-L-AF72-260-D-U-T4W-7027-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1936.6	1936.6	1936.6	1936.6	1936.6	1936.6	1936.6	1936.6	1936.6	1936.6	1936.6
2.5°	2103.7	2103.7	2099.3	2095.0	2073.6	2052.3	2048.0	2035.1	1996.6	1970.8	1945.1
5°	2279.3	2283.6	2275.0	2253.6	2206.4	2159.3	2155.0	2120.8	2048.0	1996.6	1940.9
7.5°	2446.4	2455.0	2433.6	2395.1	2339.4	2270.7	2266.5	2202.3	2108.0	2035.1	1953.8
10°	2587.7	2587.7	2557.8	2510.8	2450.7	2377.9	2369.3	2296.4	2189.3	2099.3	1992.4
12.5°	2742.0	2737.8	2694.9	2630.6	2562.1	2493.5	2489.3	2399.4	2296.4	2180.7	2048.0
15°	2883.4	2874.8	2819.2	2759.2	2686.3	2613.4	2609.2	2519.2	2412.2	2275.0	2129.4
17.5°	2960.5	2956.3	2904.8	2844.9	2784.8	2729.2	2724.9	2630.6	2515.0	2373.6	2210.8
20°	2973.4	2977.7	2934.9	2883.4	2849.2	2819.2	2819.2	2733.5	2609.2	2459.3	2296.4
22.5°	2977.7	2990.5	2960.5	2892.1	2883.4	2887.7	2896.2	2827.8	2699.1	2557.8	2386.4
25°	3007.6	3024.9	3003.5	2921.9	2913.5	2943.4	2952.0	2921.9	2806.3	2664.9	2489.3
27.5°	3067.7	3084.8	3067.7	2964.9	2952.0	2982.0	2990.5	3007.6	2921.9	2767.8	2596.5
30°	3187.6	3191.9	3153.4	3024.9	2999.1	3037.7	3050.6	3097.6	3029.2	2866.3	2699.1
32.5°	3397.6	3354.7	3239.1	3067.7	3046.2	3089.1	3101.9	3153.4	3127.7	2960.5	2806.3
35°	3826.1	3603.2	3337.7	3127.7	3106.2	3149.1	3166.3	3239.1	3252.0	3093.4	2939.2
37.5°	3821.7	3620.3	3569.0	3243.3	3213.3	3243.3	3264.8	3354.7	3406.2	3269.0	3131.9
40°	4091.7	4006.0	4006.0	3461.9	3363.3	3406.2	3427.6	3517.6	3607.6	3500.3	3359.0
42.5°	4940.0	4884.3	4824.3	3881.8	3573.3	3693.2	3706.0	3761.7	3868.9	3834.5	3667.5
45°	5886.9	5835.4	5604.0	4592.9	3933.0	3954.6	3984.5	4074.5	4228.7	4293.0	4095.9
47.5°	6628.1	6576.6	6379.6	5449.8	4494.4	4305.8	4305.8	4481.6	4721.5	4884.3	4695.8
50°	7223.6	7163.7	7043.6	6362.4	5415.5	4811.4	4785.7	4991.4	5347.0	5599.8	5471.2
52.5°	7802.0	7626.3	7553.5	7304.9	6456.7	5544.1	5475.4	5621.2	6114.0	6426.7	6319.5
55°	8187.6	8161.9	8084.7	8170.4	7549.3	6435.3	6375.4	6405.3	7022.2	7232.2	7099.3
57.5°	8547.6	8543.2	8714.5	9113.0	8740.2	7454.9	7360.7	7313.6	7900.6	7849.1	7964.8
60°	8993.1	8915.9	9314.4	9884.2	9832.8	8449.0	8341.8	8247.6	8573.2	8427.4	9001.6
62.5°	9014.5	8993.1	9802.8	10621.2	10916.8	9460.1	9335.8	8997.3	9160.1	8993.1	9991.4
65°	8196.1	8303.3	10008.5	11011.1	11825.1	10346.9	10197.0	9670.1	9682.9	9571.5	11156.7
67.5°	8012.0	8067.7	9443.0	11430.9	12480.6	11242.4	11101.1	10445.5	10291.3	10299.8	11846.5
70°	7553.5	7639.1	8740.2	11401.0	12999.1	12437.8	12296.4	11585.3	11212.5	10796.8	11315.2
72.5°	5771.3	5916.9	7364.9	9995.6	12857.7	14001.6	13963.1	13029.0	11580.9	9914.2	8560.4
75°	1953.8	1949.4	3868.9	6713.8	11550.9	14481.4	14558.7	12849.0	10102.8	6838.0	4250.2
77.5°	419.9	424.2	796.8	2720.6	7673.4	11628.0	11923.7	9691.5	6516.7	3046.2	972.5
80°	205.6	209.9	329.9	719.8	3067.7	6520.9	6983.7	4982.8	2407.8	608.4	162.9
82.5°	102.9	107.1	171.3	381.3	1135.4	2317.8	2476.4	1833.7	689.8	342.8	81.3
85°	38.5	38.5	85.7	227.1	518.4	544.2	668.3	531.3	415.6	278.5	21.4
87.5°	8.5	8.5	47.2	111.4	231.4	171.3	171.3	162.9	252.9	188.6	8.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P265732

CATALOG NUMBER: ARCH-L-AF72-260-D-U-T4W-7027-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1936.6	1936.6	1936.6	1936.6	1936.6	1936.6	1936.6	1936.6	1936.6	1936.6	1936.6
2.5°	1932.3	1915.1	1885.2	1855.2	1833.7	1808.1	1795.3	1782.3	1778.0	1773.8	1782.3
5°	1910.9	1885.2	1829.5	1782.3	1739.5	1705.3	1679.6	1653.8	1640.9	1632.4	1636.6
7.5°	1910.9	1872.2	1791.0	1718.1	1649.5	1576.6	1503.9	1448.2	1405.3	1379.5	1383.8
10°	1932.3	1881.0	1773.8	1675.2	1546.7	1392.5	1233.9	1114.0	1032.5	985.4	985.4
12.5°	1979.4	1910.9	1778.0	1623.7	1405.3	1135.4	895.4	749.7	689.8	655.6	659.9
15°	2043.6	1962.3	1799.5	1555.2	1208.2	844.0	625.5	531.3	531.3	539.8	544.2
17.5°	2116.5	2026.5	1816.6	1452.4	955.4	604.1	492.7	484.1	497.0	518.4	518.4
20°	2189.3	2090.8	1825.1	1289.6	715.5	479.9	466.9	466.9	475.6	497.0	501.3
22.5°	2279.3	2172.2	1816.6	1088.2	535.6	454.2	450.0	450.0	450.0	475.6	475.6
25°	2373.6	2266.5	1782.3	874.1	454.2	437.0	432.8	428.4	428.4	450.0	454.2
27.5°	2480.7	2365.0	1700.9	668.3	428.4	419.9	415.6	407.0	407.0	424.2	424.2
30°	2587.7	2476.4	1576.6	505.6	407.0	402.7	394.1	385.6	377.0	394.1	394.1
32.5°	2703.4	2592.1	1413.8	402.7	377.0	377.0	372.7	360.0	351.3	360.0	364.3
35°	2857.8	2724.9	1229.6	351.3	338.5	338.5	338.5	334.2	317.0	325.6	325.6
37.5°	3063.4	2909.2	1015.4	325.6	308.5	299.9	299.9	299.9	287.1	291.3	291.3
40°	3324.7	3123.3	809.7	304.2	287.1	265.5	257.1	261.3	252.9	252.9	248.6
42.5°	3680.4	3354.7	608.4	287.1	269.9	239.9	222.8	218.5	209.9	205.6	205.6
45°	4190.2	3637.4	437.0	269.9	257.1	209.9	192.7	179.9	158.6	145.6	145.6
47.5°	4849.9	3958.8	325.6	252.9	244.2	184.2	162.9	137.1	107.1	98.5	98.5
50°	5655.5	4318.7	274.3	227.1	222.8	162.9	128.5	90.0	59.9	51.5	55.7
52.5°	6439.5	4657.3	244.2	201.4	197.1	141.5	94.2	47.2	25.7	25.7	25.7
55°	7099.3	4897.1	222.8	179.9	171.3	111.4	51.5	21.4	12.8	12.8	12.8
57.5°	7694.9	5034.2	201.4	158.6	137.1	77.2	21.4	8.5	8.5	4.3	4.3
60°	8239.1	5115.7	175.7	137.1	107.1	42.8	8.5	4.3	4.3	0.0	0.0
62.5°	8774.6	5175.7	149.9	111.4	81.3	17.2	4.3	4.3	0.0	0.0	0.0
65°	9181.5	5154.3	120.0	90.0	51.5	8.5	4.3	0.0	0.0	0.0	0.0
67.5°	9168.7	4862.9	90.0	68.5	25.7	4.3	0.0	0.0	0.0	0.0	0.0
70°	8200.4	4095.9	59.9	42.8	8.5	4.3	0.0	0.0	0.0	0.0	0.0
72.5°	5818.3	2626.4	38.5	25.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	2562.1	796.8	21.4	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	501.3	184.2	12.8	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	120.0	21.4	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	51.5	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.8	4.3	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)