

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: P399864

Luminaire Tested: **ARCH-L-PA3-200-740-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-200-740-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 860mA 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: 20918 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G4

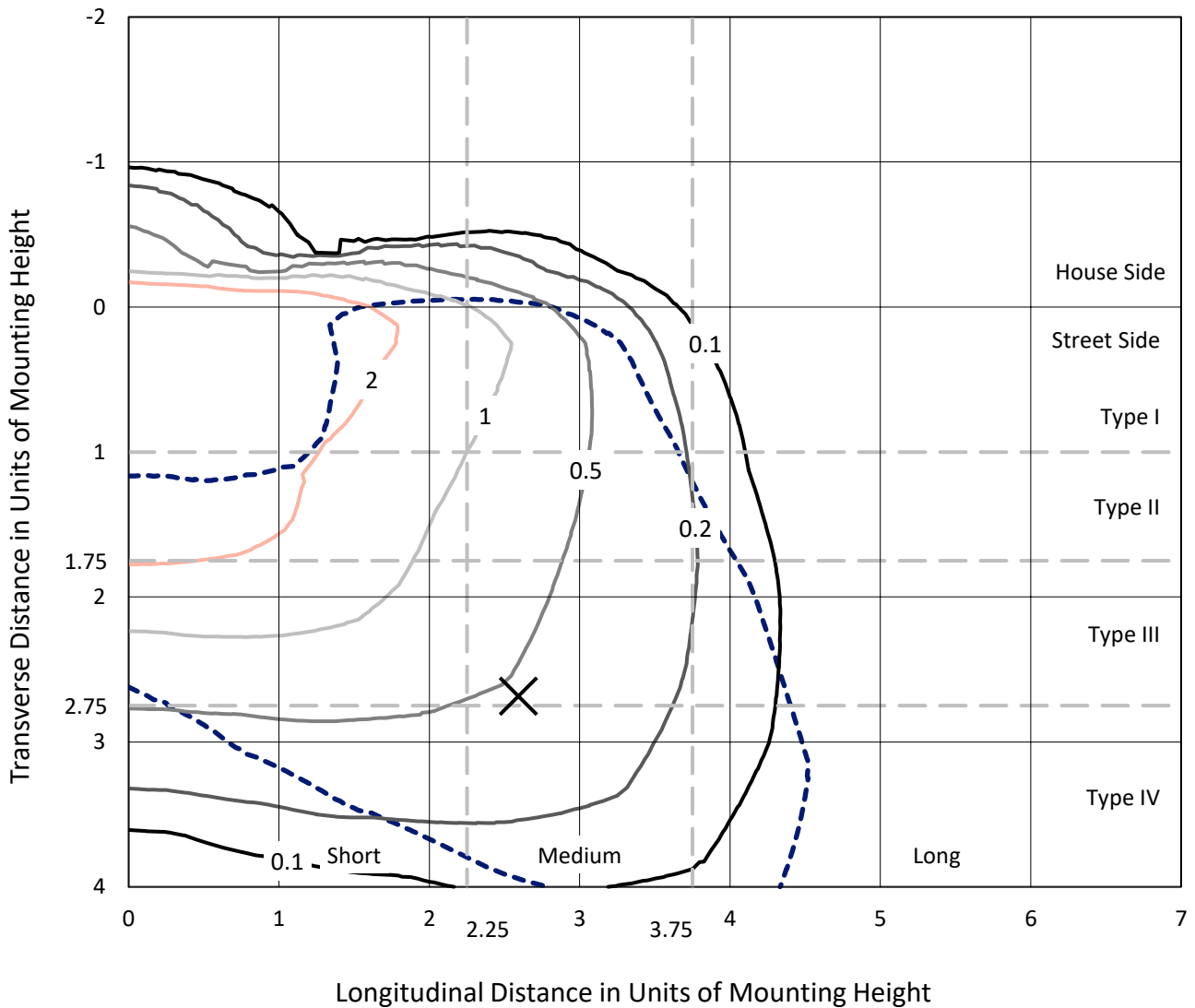
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

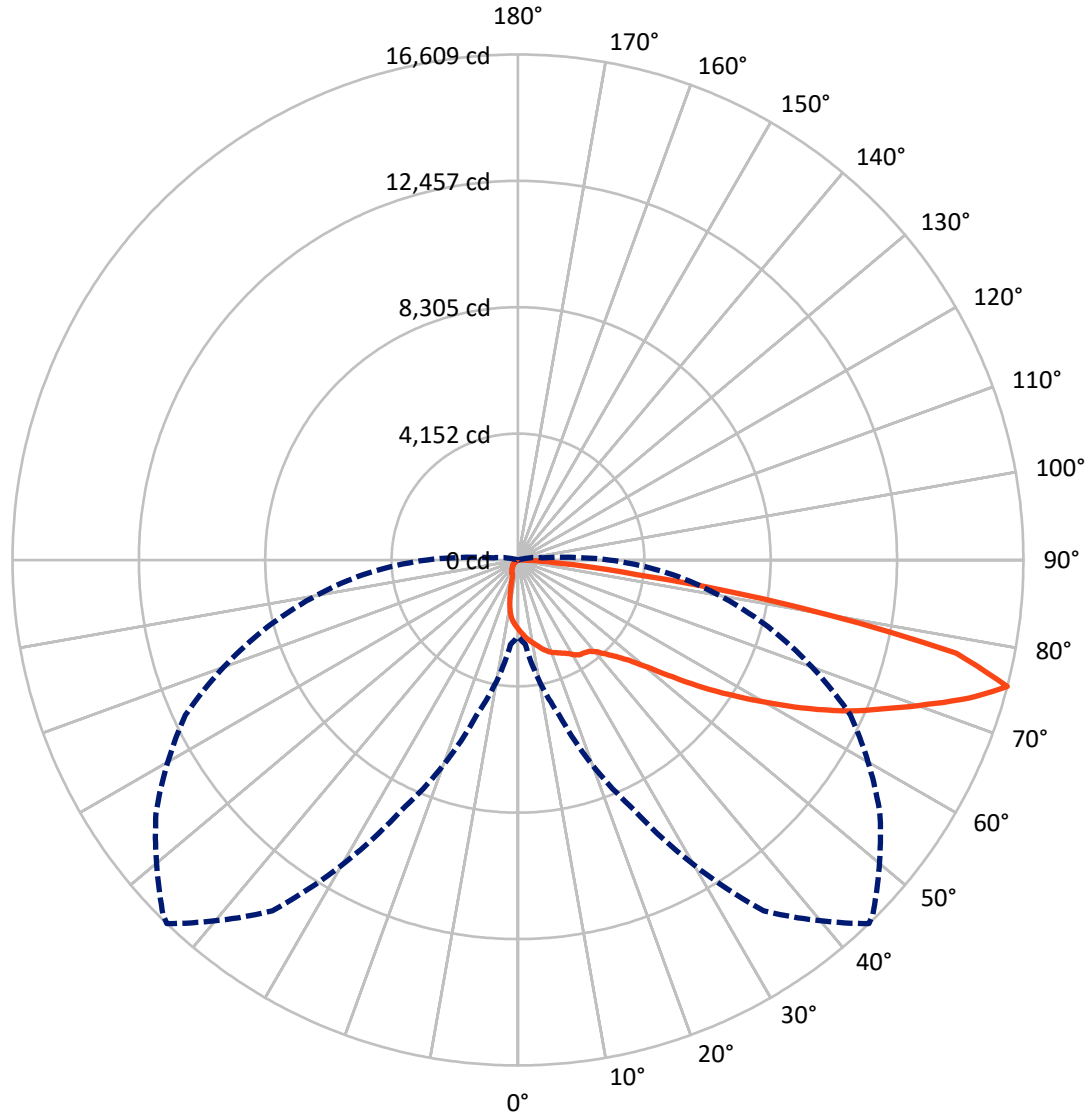
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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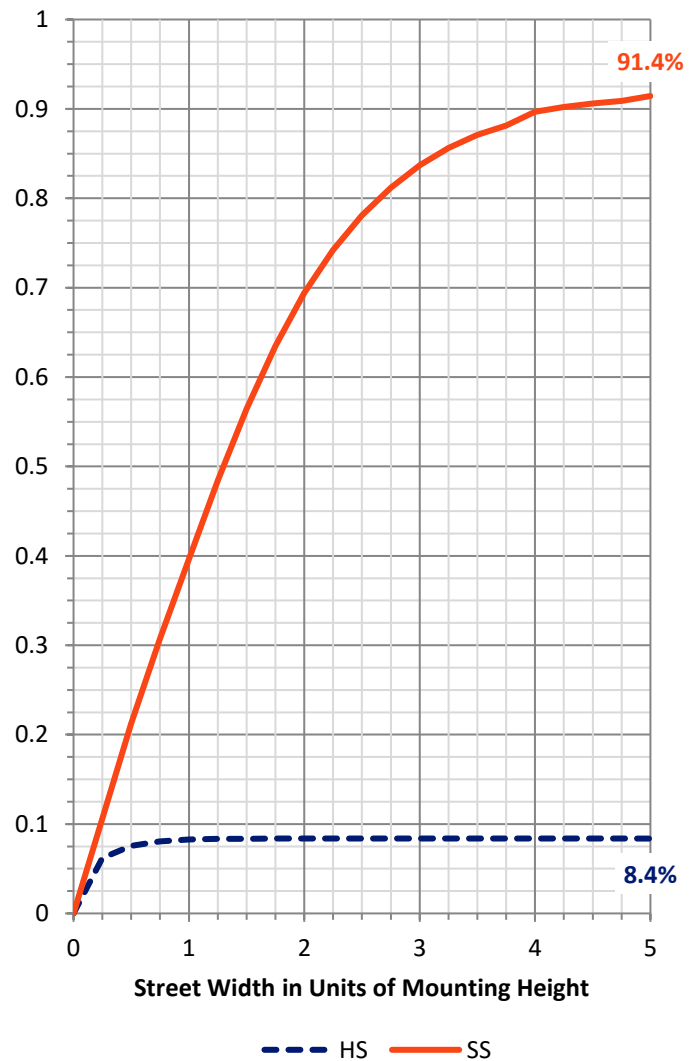
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1764.1	0.0	1764.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	19153.9	0.0	19153.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	20918.0	0.0	20918.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.7	1.0
10°-20°	601.7	2.9
20°-30°	993.0	4.7
30°-40°	1441.1	6.9
40°-50°	2342.7	11.2
50°-60°	4129.9	19.7
60°-70°	5935.5	28.4
70°-80°	4753.0	22.7
80°-90°	506.4	2.4
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°	20918.0	100.0
0°-180°	20918.0	100.0



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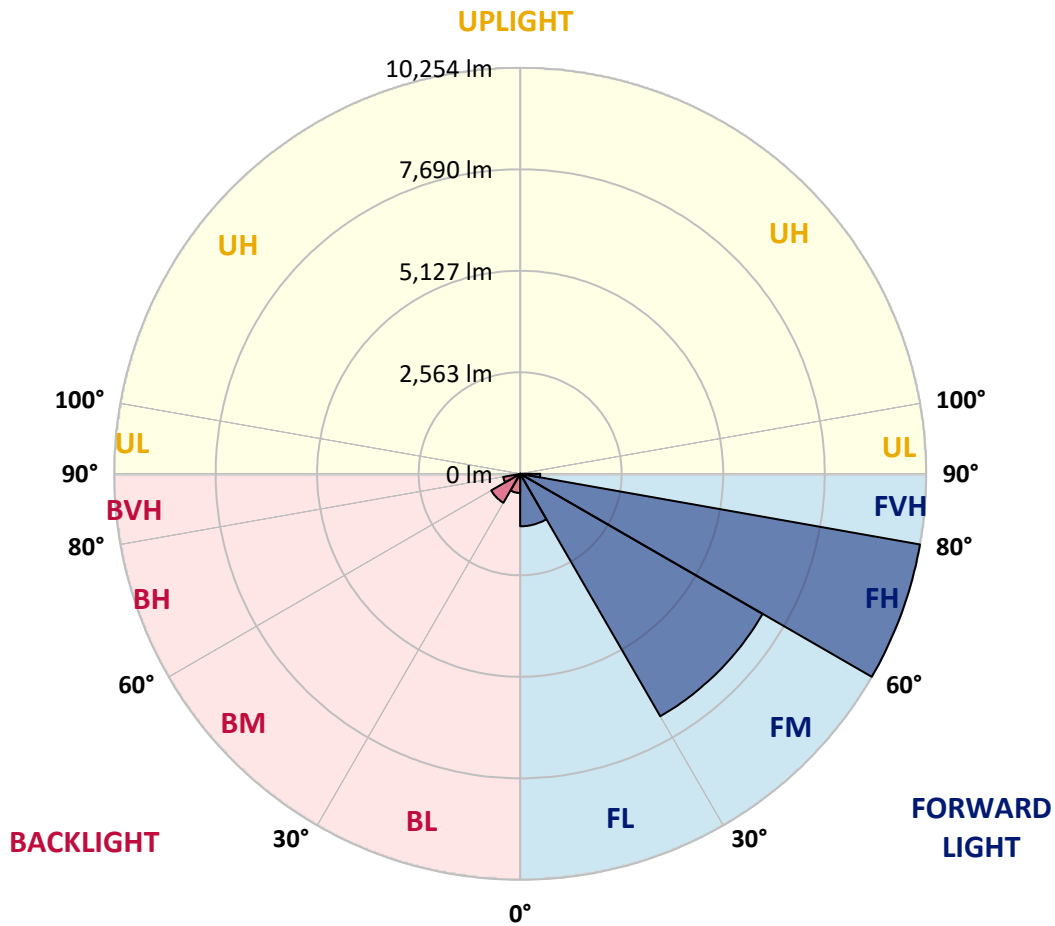
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1324.7	6.3			
FM (30°-60°)	7070.5	33.8			
FH (60°-80°)	10253.6	49.0			G4/12000
FVH (80°-90°)	505.1	2.4			G4/750
BL (0°-30°)	484.7	2.3	B1/500		
BM (30°-60°)	843.3	4.0	B1/1000		
BH (60°-80°)	434.9	2.1	B1/500		G1/500
BVH (80°-90°)	1.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2276.8	2276.8	2276.8	2276.8	2276.8	2276.8	2276.8	2276.8	2276.8	2276.8	2276.8
2.5°	2481.4	2477.5	2465.9	2446.6	2427.3	2408.1	2404.2	2373.3	2338.6	2311.6	2288.4
5°	2701.3	2697.5	2678.2	2635.7	2593.3	2543.1	2539.3	2465.9	2400.3	2327.0	2265.3
7.5°	2929.0	2921.3	2886.6	2821.0	2747.7	2670.5	2662.8	2554.7	2458.2	2361.7	2273.0
10°	3106.5	3098.8	3048.7	2971.5	2871.1	2774.7	2763.1	2651.2	2554.7	2431.2	2311.6
12.5°	3280.2	3264.8	3199.2	3114.3	2990.8	2898.2	2886.6	2770.8	2655.0	2527.7	2381.0
15°	3442.3	3423.0	3361.2	3253.2	3122.0	3033.2	3025.5	2902.0	2782.4	2635.7	2473.7
17.5°	3554.2	3546.5	3473.2	3353.5	3226.2	3152.9	3145.1	3017.8	2898.2	2743.8	2570.1
20°	3612.1	3612.1	3542.6	3411.4	3295.6	3245.5	3233.9	3114.3	2998.5	2851.8	2670.5
22.5°	3623.7	3635.2	3581.2	3438.4	3353.5	3311.1	3303.4	3199.2	3087.2	2952.2	2782.4
25°	3646.8	3646.8	3619.8	3465.4	3403.7	3392.1	3388.3	3295.6	3195.3	3060.2	2894.3
27.5°	3673.8	3673.8	3654.5	3504.0	3480.9	3477.0	3473.2	3430.7	3349.7	3191.4	3025.5
30°	3743.3	3747.1	3731.7	3581.2	3565.8	3608.2	3615.9	3592.8	3492.4	3295.6	3160.6
32.5°	3916.9	3882.2	3839.8	3635.2	3662.2	3716.3	3720.1	3673.8	3565.8	3407.5	3322.7
35°	4353.0	4148.5	3955.5	3681.5	3693.1	3747.1	3754.9	3751.0	3685.4	3550.3	3507.9
37.5°	4758.2	4468.8	4194.8	3789.6	3751.0	3808.9	3824.3	3889.9	3839.8	3747.1	3758.7
40°	4993.6	4881.7	4688.8	4086.7	3866.8	3955.5	3971.0	4071.3	4052.0	4013.4	4086.7
42.5°	5719.1	5726.8	5518.5	4530.5	4079.0	4221.8	4241.1	4322.1	4349.2	4368.5	4546.0
45°	6560.4	6587.4	6537.2	5329.4	4480.4	4526.7	4553.7	4661.7	4762.1	4885.6	5209.7
47.5°	7571.5	7548.3	7363.1	6305.7	5178.9	4920.3	4939.6	5148.0	5321.6	5591.8	6054.9
50°	8466.8	8524.7	8173.5	7216.4	6162.9	5541.6	5522.3	5726.8	6039.4	6417.6	7000.3
52.5°	9369.8	9284.9	8810.2	8119.5	7328.4	6386.7	6328.9	6440.8	6880.7	7328.4	7926.5
55°	9609.1	9616.8	9454.7	9107.4	8300.8	7413.3	7316.8	7309.1	7857.0	8161.9	8899.0
57.5°	10079.9	10099.2	10137.7	10207.2	9825.2	8439.8	8339.4	8231.4	8763.9	8941.4	9875.3
60°	10558.4	10581.5	10816.9	11191.3	10936.6	9547.3	9439.3	9184.6	9481.7	9721.0	10901.8
62.5°	10496.6	10658.7	11341.8	12086.6	12055.7	10762.9	10627.8	10014.3	10203.4	10411.7	11843.5
65°	9477.8	9651.5	11187.4	12333.6	13178.7	11963.1	11743.1	10871.0	10882.5	11133.4	12750.3
67.5°	8567.1	8756.2	10222.6	12229.4	13919.6	13039.8	12812.1	11731.5	11550.2	11966.9	13236.6
70°	8042.3	8231.4	9454.7	11905.2	14128.0	14232.2	14035.4	12715.6	12345.1	12727.2	12692.4
72.5°	6294.1	6591.3	8474.5	11287.7	14351.8	15509.6	15355.2	13962.1	13020.5	11932.2	9663.1
75°	2508.4	2782.4	5290.8	9084.2	14070.1	16609.4	16489.8	14521.6	12051.8	8520.8	4947.3
77.5°	756.4	810.4	1470.3	4491.9	10315.3	14726.2	14687.6	12210.1	8528.5	3955.5	1350.7
80°	250.8	277.9	451.5	1238.8	4708.1	9200.0	9373.7	7779.9	3874.5	906.9	274.0
82.5°	104.2	115.8	227.7	497.8	1667.1	3963.3	3905.4	3484.7	1350.7	563.4	100.3
85°	27.0	34.7	104.2	285.6	609.7	1366.1	1435.6	1169.3	764.1	466.9	30.9
87.5°	0.0	0.0	50.2	115.8	274.0	412.9	432.2	355.0	432.2	351.2	15.4
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°	2276.8	2276.8	2276.8	2276.8	2276.8	2276.8	2276.8	2276.8	2276.8	2276.8	2276.8
2.5°	2269.1	2249.8	2215.1	2191.9	2161.1	2153.4	2137.9	2118.6	2114.8	2095.5	2099.3
5°	2230.5	2199.7	2137.9	2095.5	2045.3	2029.9	2002.9	1983.6	1968.1	1941.1	1945.0
7.5°	2222.8	2176.5	2091.6	2010.6	1929.5	1871.6	1790.6	1725.0	1671.0	1613.1	1624.7
10°	2249.8	2191.9	2072.3	1960.4	1813.8	1628.5	1416.3	1277.3	1207.9	1138.4	1146.1
12.5°	2303.9	2234.4	2080.0	1910.2	1613.1	1296.6	1003.4	814.3	764.1	733.2	737.1
15°	2384.9	2300.0	2103.2	1813.8	1343.0	937.8	667.6	586.6	605.9	617.4	617.4
17.5°	2469.8	2373.3	2122.5	1640.1	1038.1	656.0	544.1	536.4	563.4	590.4	590.4
20°	2574.0	2450.5	2126.3	1420.1	748.7	532.6	513.3	513.3	532.6	563.4	563.4
22.5°	2674.3	2535.4	2091.6	1169.3	571.1	494.0	494.0	494.0	505.5	536.4	540.3
25°	2794.0	2639.6	2018.3	903.0	490.1	470.8	470.8	474.7	482.4	509.4	513.3
27.5°	2921.3	2747.7	1894.8	659.9	447.7	443.8	447.7	451.5	455.4	482.4	490.1
30°	3068.0	2867.3	1736.6	494.0	409.1	409.1	420.6	428.4	428.4	451.5	459.2
32.5°	3237.8	3025.5	1547.5	409.1	370.5	366.6	385.9	397.5	397.5	416.8	424.5
35°	3450.0	3187.6	1319.8	362.8	339.6	331.9	339.6	358.9	366.6	382.0	385.9
37.5°	3731.7	3380.5	1076.7	335.7	316.4	301.0	301.0	304.9	320.3	335.7	339.6
40°	4090.6	3592.8	837.4	316.4	293.3	277.9	266.3	262.4	258.6	270.1	277.9
42.5°	4542.1	3832.0	625.2	297.1	274.0	250.8	235.4	220.0	200.7	196.8	200.7
45°	5121.0	4125.3	463.1	281.7	262.4	227.7	200.7	173.7	138.9	127.3	131.2
47.5°	5804.0	4430.2	362.8	266.3	254.7	200.7	165.9	119.6	84.9	77.2	81.0
50°	6529.5	4723.5	308.7	247.0	239.3	173.7	119.6	73.3	50.2	50.2	54.0
52.5°	7147.0	4889.4	281.7	231.5	216.1	142.8	77.2	42.4	30.9	30.9	34.7
55°	7745.1	4978.2	262.4	216.1	185.2	100.3	42.4	27.0	19.3	19.3	19.3
57.5°	8362.6	5016.8	239.3	196.8	146.6	61.7	23.2	15.4	11.6	11.6	11.6
60°	8910.6	4943.5	204.5	162.1	96.5	30.9	11.6	11.6	7.7	3.9	3.9
62.5°	9369.8	4804.5	142.8	115.8	57.9	15.4	7.7	3.9	0.0	0.0	0.0
65°	9651.5	4580.7	92.6	77.2	34.7	11.6	3.9	0.0	0.0	0.0	0.0
67.5°	9570.5	4160.1	57.9	50.2	15.4	7.7	3.9	0.0	0.0	0.0	0.0
70°	8636.6	3411.4	42.4	30.9	11.6	3.9	0.0	0.0	0.0	0.0	0.0
72.5°	6224.7	2307.7	30.9	19.3	7.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	2994.6	822.0	19.3	15.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	733.2	181.4	11.6	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	162.1	34.7	7.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	54.0	15.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.3	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.6	3.9	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)