

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: P265678

Luminaire Tested: **ARCH-L-AF72-200-D-U-T4W-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265678
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-AF72-200-D-U-T4W-7027-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 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: 15294.4 lumens
Efficiency: N/A
Efficacy: 76.1 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): 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

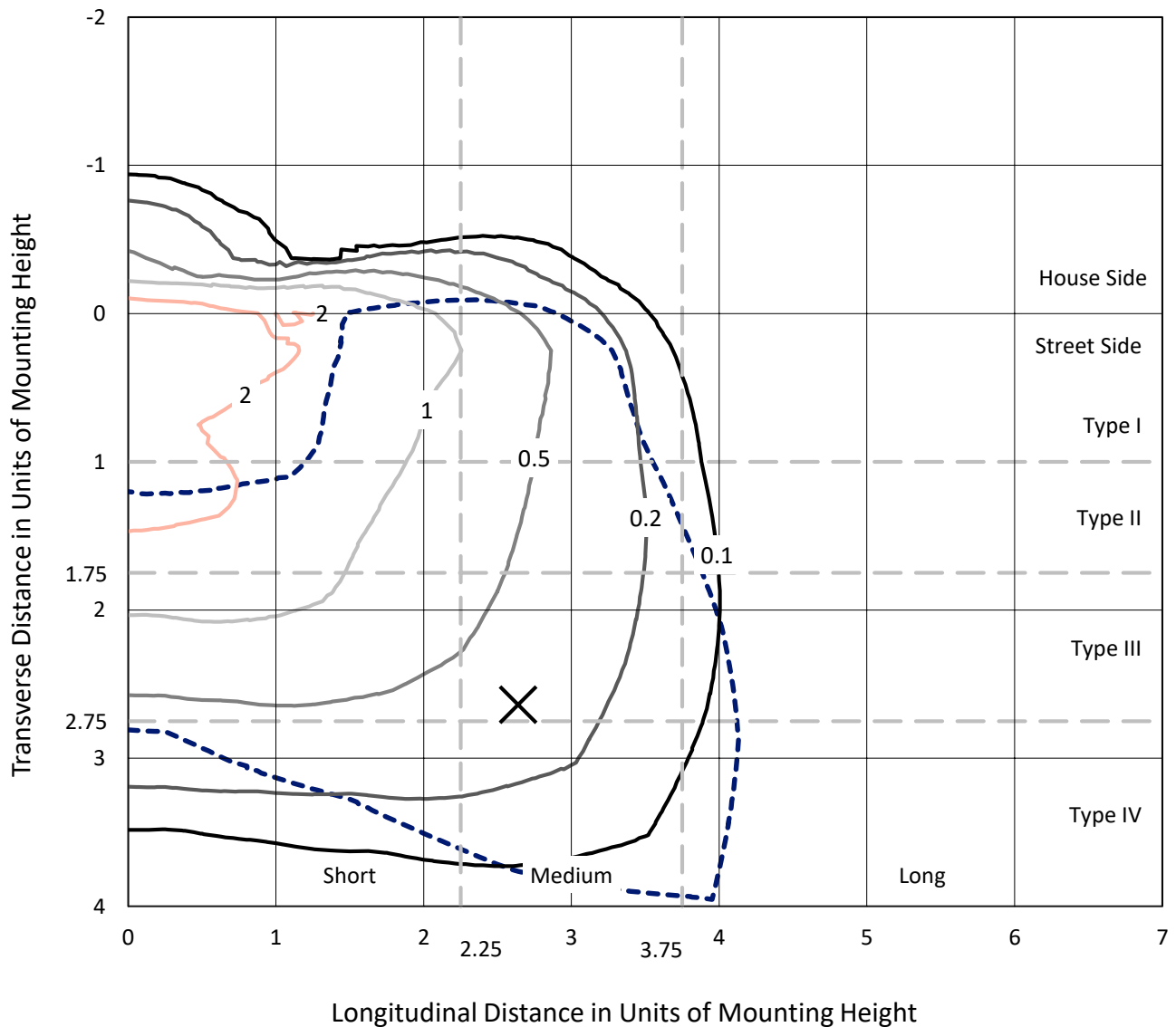


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

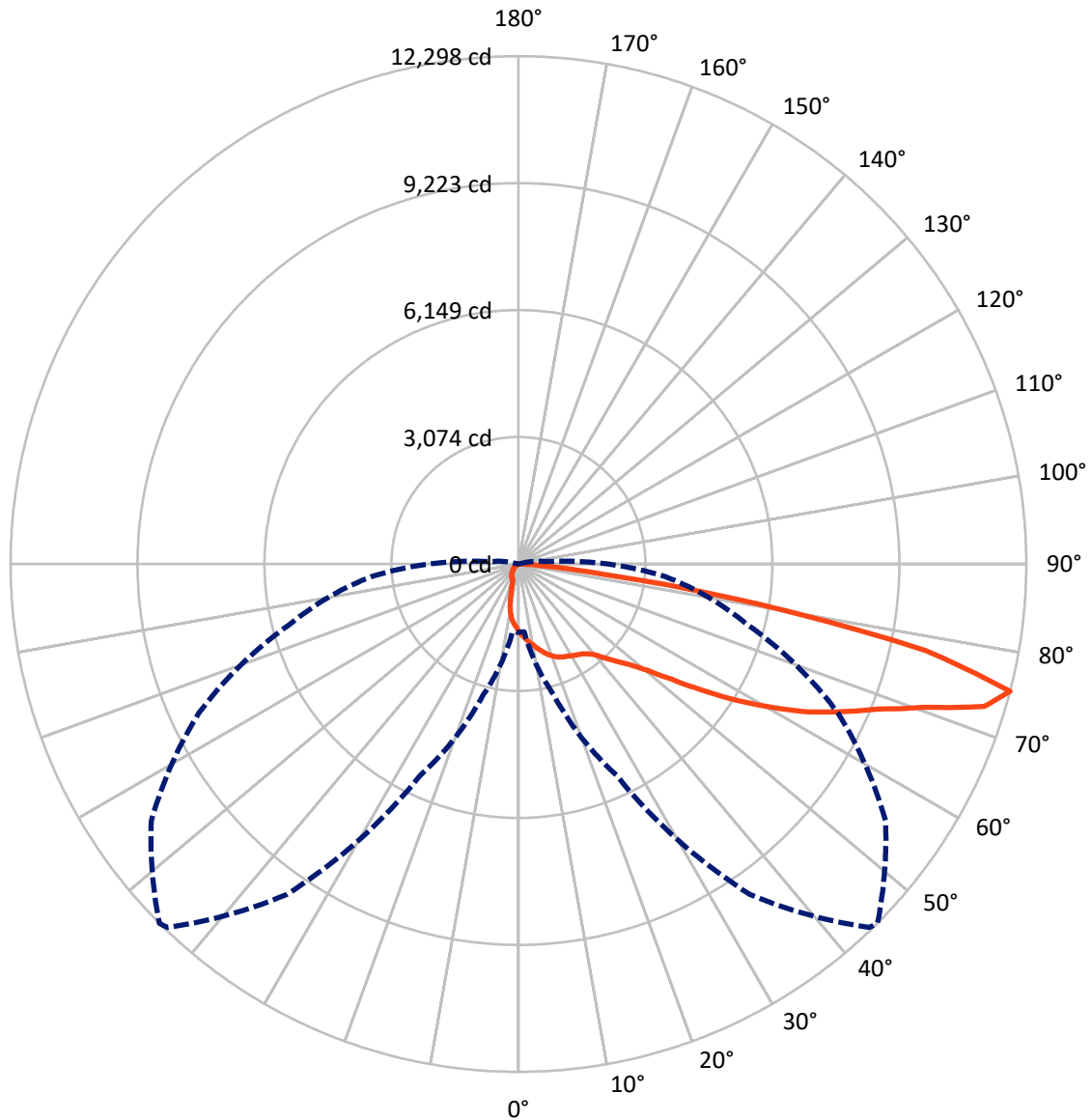


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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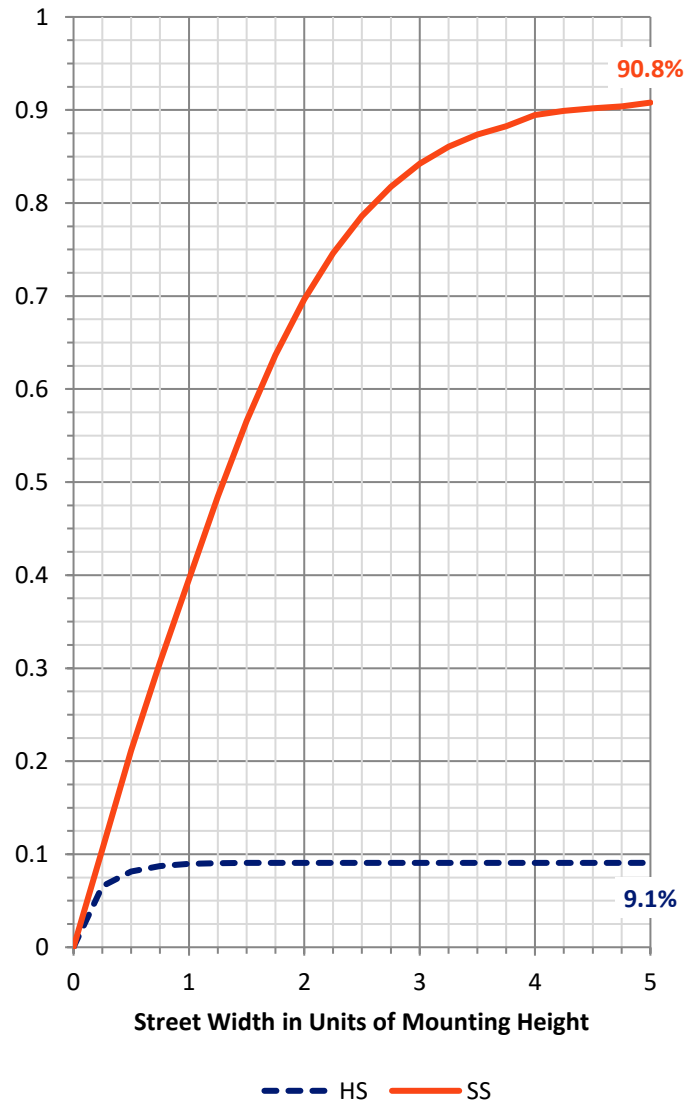
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1399.0	0.0	1399.0
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	13895.5	0.0	13895.5
	% Fixture	90.9	0.0	90.9
Total	Lumens	15294.4	0.0	15294.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	1.0
10°-20°	437.4	2.9
20°-30°	724.4	4.7
30°-40°	1048.3	6.9
40°-50°	1716.6	11.2
50°-60°	3058.6	20.0
60°-70°	4496.5	29.4
70°-80°	3392.2	22.2
80°-90°	266.1	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°	15294.4	100.0
0°-180°	15294.4	100.0



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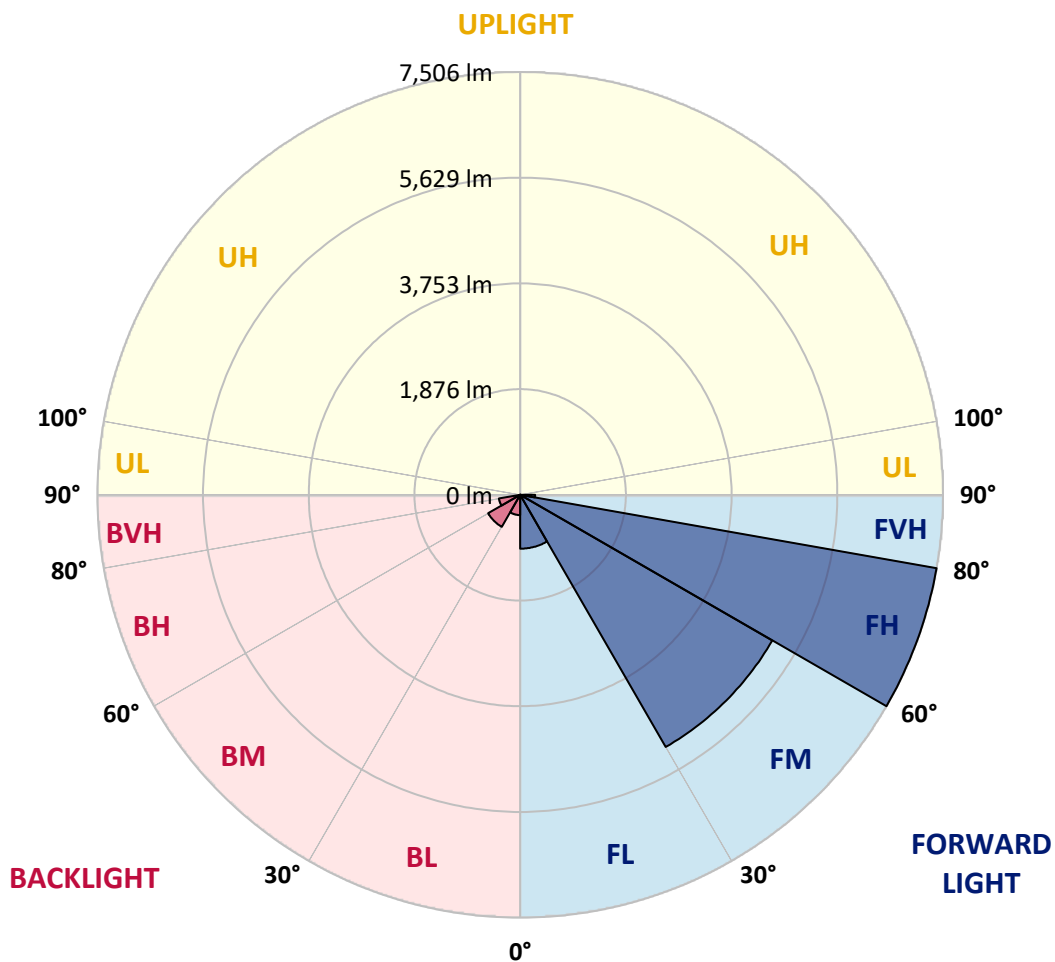
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	956.6	6.3			
FM	(30°-60°)	5167.9	33.8			
FH	(60°-80°)	7505.5	49.1			G4/12000
FVH	(80°-90°)	265.4	1.7			G3/500
BL	(0°-30°)	359.5	2.4	B1/500		
BM	(30°-60°)	655.6	4.3	B1/1000		
BH	(60°-80°)	383.2	2.5	B1/500		G1/500
BVH	(80°-90°)	0.7	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°	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9
2.5°	1776.9	1776.9	1773.3	1769.8	1751.7	1733.5	1730.0	1719.0	1686.5	1664.7	1643.1
5°	1925.3	1929.0	1921.7	1903.7	1863.9	1824.0	1820.3	1791.4	1730.0	1686.5	1639.4
7.5°	2066.6	2073.7	2055.6	2023.1	1976.0	1918.2	1914.5	1860.2	1780.6	1719.0	1650.2
10°	2185.9	2185.9	2160.7	2120.8	2070.1	2008.6	2001.3	1939.8	1849.3	1773.3	1682.9
12.5°	2316.2	2312.5	2276.3	2222.0	2164.1	2106.3	2102.8	2026.7	1939.8	1842.2	1730.0
15°	2435.7	2428.4	2381.3	2330.7	2269.2	2207.7	2204.0	2128.1	2037.5	1921.7	1798.6
17.5°	2500.8	2497.2	2453.7	2403.1	2352.4	2305.3	2301.7	2222.0	2124.4	2004.9	1867.4
20°	2511.7	2515.3	2479.1	2435.7	2406.6	2381.3	2381.3	2309.0	2204.0	2077.3	1939.8
22.5°	2515.3	2526.2	2500.8	2442.9	2435.7	2439.3	2446.5	2388.7	2280.0	2160.7	2015.8
25°	2540.5	2555.0	2537.0	2468.3	2460.9	2486.2	2493.5	2468.3	2370.4	2251.1	2102.8
27.5°	2591.3	2605.8	2591.3	2504.5	2493.5	2518.8	2526.2	2540.5	2468.3	2337.8	2193.1
30°	2692.6	2696.3	2663.7	2555.0	2533.4	2565.9	2576.8	2616.7	2558.7	2421.1	2280.0
32.5°	2869.9	2833.8	2736.0	2591.3	2573.1	2609.3	2620.1	2663.7	2641.9	2500.8	2370.4
35°	3231.8	3043.6	2819.3	2641.9	2623.8	2660.1	2674.6	2736.0	2746.8	2613.0	2482.6
37.5°	3228.1	3058.1	3014.7	2739.7	2714.3	2739.7	2757.7	2833.8	2877.2	2761.4	2645.6
40°	3456.1	3383.8	3383.8	2924.3	2841.0	2877.2	2895.2	2971.2	3047.3	2956.9	2837.3
42.5°	4172.7	4125.7	4075.2	3278.9	3018.3	3119.6	3130.6	3177.6	3268.0	3239.1	3098.0
45°	4972.6	4929.2	4733.8	3879.6	3322.3	3340.3	3365.7	3441.8	3572.0	3626.3	3459.8
47.5°	5598.6	5555.3	5388.8	4603.5	3796.3	3637.1	3637.1	3785.5	3988.3	4125.7	3966.5
50°	6101.7	6051.2	5949.7	5374.3	4574.4	4064.2	4042.6	4216.3	4516.6	4730.1	4621.6
52.5°	6590.3	6441.9	6380.4	6170.5	5454.0	4683.0	4625.2	4748.3	5164.4	5428.5	5338.2
55°	6916.1	6894.3	6829.2	6901.6	6376.8	5435.9	5385.2	5410.5	5931.7	6109.1	5996.8
57.5°	7220.0	7216.4	7361.3	7697.8	7382.9	6297.2	6217.6	6177.7	6673.6	6630.1	6727.9
60°	7596.4	7531.3	7867.9	8349.1	8305.8	7136.9	7046.3	6966.7	7241.7	7118.7	7603.7
62.5°	7614.6	7596.4	8280.4	8971.7	9221.5	7991.0	7886.0	7600.1	7737.6	7596.4	8439.7
65°	6923.2	7013.7	8454.2	9301.1	9988.7	8740.1	8613.4	8168.3	8179.1	8085.0	9424.1
67.5°	6767.7	6814.7	7976.4	9655.7	10542.4	9496.4	9377.0	8823.3	8693.0	8700.3	10006.7
70°	6380.4	6452.9	7382.9	9630.4	10980.3	10506.1	10386.7	9786.0	9471.1	9120.0	9558.0
72.5°	4874.9	4997.9	6221.2	8443.3	10860.9	11827.2	11794.6	11005.7	9782.4	8374.4	7230.8
75°	1650.2	1646.7	3268.0	5671.1	9757.0	12232.5	12297.5	10853.6	8533.8	5776.0	3590.2
77.5°	354.7	358.2	673.1	2298.1	6481.8	9822.2	10071.8	8186.3	5504.6	2573.1	821.5
80°	173.7	177.3	278.7	608.1	2591.3	5508.2	5899.1	4209.0	2033.9	513.9	137.5
82.5°	86.9	90.5	144.7	322.1	959.1	1957.9	2091.9	1548.9	582.7	289.6	68.8
85°	32.6	32.6	72.4	191.8	438.0	459.7	564.6	448.8	351.1	235.3	18.1
87.5°	7.2	7.2	39.9	94.1	195.4	144.7	144.7	137.5	213.5	159.2	7.2
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°	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9
2.5°	1632.2	1617.7	1592.3	1567.1	1548.9	1527.3	1516.3	1505.5	1502.0	1498.4	1505.5
5°	1614.2	1592.3	1545.4	1505.5	1469.4	1440.4	1418.7	1397.0	1386.2	1378.9	1382.5
7.5°	1614.2	1581.6	1512.7	1451.2	1393.4	1331.7	1270.4	1223.2	1187.1	1165.3	1169.0
10°	1632.2	1588.8	1498.4	1415.1	1306.5	1176.2	1042.4	941.0	872.3	832.4	832.4
12.5°	1672.0	1614.2	1502.0	1371.6	1187.1	959.1	756.5	633.3	582.7	553.7	557.4
15°	1726.4	1657.6	1520.0	1313.7	1020.6	713.0	528.5	448.8	448.8	456.0	459.7
17.5°	1787.8	1711.8	1534.5	1226.8	807.0	510.2	416.2	409.0	419.8	438.0	438.0
20°	1849.3	1766.1	1541.8	1089.4	604.4	405.3	394.4	394.4	401.7	419.8	423.5
22.5°	1925.3	1834.9	1534.5	919.2	452.3	383.7	380.1	380.1	380.1	401.7	401.7
25°	2004.9	1914.5	1505.5	738.2	383.7	369.2	365.5	361.8	361.8	380.1	383.7
27.5°	2095.4	1997.7	1436.7	564.6	361.8	354.7	351.1	343.8	343.8	358.2	358.2
30°	2185.9	2091.9	1331.7	427.1	343.8	340.2	332.9	325.7	318.4	332.9	332.9
32.5°	2283.6	2189.6	1194.2	340.2	318.4	318.4	314.9	303.9	296.8	303.9	307.6
35°	2413.9	2301.7	1038.7	296.8	285.9	285.9	285.9	282.2	267.9	275.1	275.1
37.5°	2587.7	2457.4	857.7	275.1	260.6	253.3	253.3	253.3	242.5	246.0	246.0
40°	2808.5	2638.3	684.0	256.9	242.5	224.3	217.1	220.8	213.5	213.5	209.9
42.5°	3108.8	2833.8	513.9	242.5	228.0	202.7	188.1	184.6	177.3	173.7	173.7
45°	3539.4	3072.7	369.2	228.0	217.1	177.3	162.9	152.1	133.8	123.1	123.1
47.5°	4096.8	3344.0	275.1	213.5	206.3	155.6	137.5	115.8	90.5	83.3	83.3
50°	4777.1	3648.0	231.7	191.8	188.1	137.5	108.5	75.9	50.7	43.4	47.0
52.5°	5439.4	3933.9	206.3	170.0	166.5	119.5	79.6	39.9	21.6	21.6	21.6
55°	5996.8	4136.6	188.1	152.1	144.7	94.1	43.4	18.1	10.9	10.9	10.9
57.5°	6499.9	4252.3	170.0	133.8	115.8	65.1	18.1	7.2	7.2	3.7	3.7
60°	6959.4	4321.1	148.4	115.8	90.5	36.2	7.2	3.7	3.7	0.0	0.0
62.5°	7411.8	4371.8	126.8	94.1	68.8	14.5	3.7	3.7	0.0	0.0	0.0
65°	7755.6	4353.7	101.2	75.9	43.4	7.2	3.7	0.0	0.0	0.0	0.0
67.5°	7744.7	4107.7	75.9	57.9	21.6	3.7	0.0	0.0	0.0	0.0	0.0
70°	6926.9	3459.8	50.7	36.2	7.2	3.7	0.0	0.0	0.0	0.0	0.0
72.5°	4914.6	2218.5	32.6	21.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	2164.1	673.1	18.1	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	423.5	155.6	10.9	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	101.2	18.1	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	43.4	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.9	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	3.7	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)